

IU Specie PRODEEDURES (LATE UCLT ... 2T)

- I. Government has constituted a committee carried Therapeutic Committee, this Committee decides the drups to be included in the tender list. This covers if any drugs are absolute and they are releted and other new drugs introduced if any are included in the list.
- II. The Director of Health & F.. Services, Bangalore, floates tenders and proceedures followed are as per the store purchase manual.
- III. As per the calender of events on prefixed particular dates sealed tenders are opened by the tender opening Committee in the presence of the representative of the each of the participants where rates quoted by each of the firm are made known. One set of the document is preserved securely under the custody (personel) of the Director and remaining other set of documents are handed over to the Joint Director Government medical Stores.
 - IV. Government have constituted a Committee Known as Experts Committee. The members constituted are by their designation from different institutions and included practically members from every speciality. This Committee goes through compartive at tement of the rates quoted to various items with respective to samples and decides the drugs. If the drugs has passed and fullfilled the minimum requirements as per Drugs Controllers stipulations, such as G.M. C. Conufacturing licences, non Conviction Certificates, besides possession of Income and cales Tax Clearance Certificate are also looked into.
- V. The process resches the stags of recommendation of experts

 Committee and the same is placed before High Power Committee constituted by the Government taking final decisions. With a view to implement certain Bovernment interest in PSUs, SSIs units etc.

 Besi as the procedure the policy as regards to giving either prices preference or preference to PSUs such policy decisions are left to the decisions of the Migh Power Committee.

The final recommendations of the High Fower Committee are submitted to the Government for their approval. Taking instructions of the Government Rate Contract is fixed in aspect of the items approved with formalities as provided in the Tender Motification.

VI. In Government Medical Stores, Bangalore, effects purchase of drucs and chemicals from R. firms only as per the requirement of the hospitals and thenever necessary with the remission of Government from Public Sector Undertakings or any other accordance firms (only from manufacturers).

GUVI MARET Joint Director, B'LOAR

GOVT. MEDICAL STORE:

Alia/

DETAILS NOTE ABOUT THE WORKING OF THEG VERIFIER MEDICAL STORES.

The Government Medical Stores is located in Grace Villa, Palace Road, A'lore, is headed by the Joint Director, under the administrative control of the Director of Health & F. W Services, B'lore. The staff senctioned for the Government Medical is as noted below:-

⊕ & e	Category.		Sanctioned	Post	
1.	Joint Director			Whole this estate was arres	101mm 東北海衛衛
2.	Assistant Surgions		Oue	¥	1 = 63
3.	Gradute Discussions		Two		:50
4.	Cradute Phermacists		four		
5.	Socretary		Cne	3	
	Manager (Office Supto	41)	One	* * .	
6.	Accounts' Superinter	dent	Cno		. 1
7.	Typist		Two		
₽.,	First Division Assis	atant .	Ten		
3.	Second Division Assi	Istant	Thirty	ibron	
10.	Literate Attenders		Five .	1112, 66	*
11.	fixiver		V ne		
12.	Cleaner				1.
Y	Carpentor		Cue		
14.	Cycle Orderly		Onc		
15.	Peons		Two		TES
16.	iinkera		Three		
17.			One		3
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10.	Watch & Ward		Lievon		, i
19.	Stenographer	in the state of th	Cne	a a	
	THE WAY AND THE PROPERTY SPECE SAME SPECE SAME	. We was now one was the sale		e seem some said and	(864x) 464x 243

TOTAL: One hundred thirtythree only

The Covernment Medical Stores is Sub-wivided into nine Sectionally alloting staff as shows against eachs-

1. Chief Supervisor Sections

Asst. Surgeon F.U.A.S.D.A Packers 5

2. Facking Yard

Asst.Sugeon 130A-6

3. Furchasa Section

Under the control of Joint Director

4. Accounta Section

Under the control of Jontrol SDC-4

Peona - 1

پو د	'A' Stores(Tablets and Inj	ection) a linder the contact
		G.F.
•		SDA
		Packers a
6.	'B' Stores(Tineture	· mewars d
	" " " " " " " " " " " " " " " " " " "	for demand the hand
		Inder the control of Gradute Pharmaciots
		Gradule Flarmacists
		501
7.		Packers
1 .	(Instruments and Equipments	
	the state of the contraction of	The state of the s
		G.I. SDA
		Packers
		a m
0.	Office(Administration) . 1	Socretary 1 vocant
		Office Suntage
	* /	
		Stenographer
	7	Typiat
		Cycle Orderly
		Literate Attenders
		Packers
		Orivers Cleaner
	the lexal Description	watch & Kord
	This office(Admin	istration) is further Sub-Divided into
	following sections:-	The superior of the superior s
.*		
	Supervisory Officer	Socretary
	· · · · · · · · · · · · · · · · · · ·	Office Suptd: 1
	Section:	FOAR 1
	Gash	50A
	7	FON
		Cycle Orderly
		Lit.attender 1
	audit fire fire	304
	Miscellangous	
	Form Section	
		Packers
	Inward	SDA
		, Lit.attender 1
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Cycle
		Packers
	Tyring Section	Stenographor 1
		Typiat
	Printing a greated	
11	STAFE	
		SDA Driver
		Cleaner
*		Watch & Ward 11
	the state of the s	Leous
	J. S. Maria J. S.	

The Joint Director being the Head of the Institution is in everhaul supervision and controlling authority of all the section of the Govt. Medical Stores, Bilore.

. CHIEF TO FRVICOR SECTION .-

The Asst. Surgeon holding the post of Chief Murarel Supervisor in incharge of this eactions and he he is in rank so the Joint Director for all administrative duties whenever the Joint Director is on leave or an other duties. The Chief Supervisor is responsible to receive all the supplies from various firms to whom orders would been placed bothe by the Joint Director, G.M.S R. lore, and by the Director of Health & F.W Sorvices by verifying the quality and specification of the naterials supplied by the firm with that of the approved camples at the time of approving the R.G rates. The Chaif Supervisor is resroneible for maintaining a day book for all the purchases and make necessary entreis under this singanture and obtained the knikks initials of the Joint Director is taken of attestation. The C.S is responsible for the safe custody of the exticles received till such time they are handed ever is the concerned stores including safe delivery under his signature and obtained the full olgnature of the receiveing office from the concerned stores. The C. Is also responsible for the safe custody of samples received from various firms prom duced in connections with the fire and will endertake demonstrate them whenever required by the Joint Director, Director of Health & Fax Servi ces and Experts Committee or High Power Committee. The C.S will also mointain a register of samples received and to record its disposal also it will be the responsibility of the C.S to see that the various store: room are correctly locked and sealed with in his presence at the ende of each day and take acknowledgement of the concerned stone keepers to this effect and report to the Joint Director. The Cheif Sup rvisor responsible to sort out the dealwood boxes according to forwarding not He shall assign the duties of sweeping and cleaning of the packing yard by routine and maintain a register wherein enter the names of persons as such duties. He shall be responsible to varify the rubbish syeryds; it is removed out of the premises and to see that no Govt. property is mixed with the rubbich.

2. PACKING YAUD: -

The Assistant Surgeon is incharge of the Facking Yard is having four packing section. The Asst. Surgeon is responsible for the currect despatch of the articles. He will excercise proper supervision ever the packing yard during the actual packing of the materials. He is responsible for getting the compiled indent entered in the concerned gate pass books under his signature and submitt is he Joint Director furthen needful. He is responsible to see that the staff members under him

works officiantly and completes the packing of all the indepth received for the dey on thesems day itself, it will certify on the delivery notes that the packing was done under his direct supervision and also his assistants have to certify that the packing was done in his presence and the packers name shall be noted with the number of boxes used in the columns provided. He is also responsible for the correct delivery of the goods to the larry saiture driver or the clerk in the presence of watch & ward who will actually the consignment and the persons deliverying the goods. He is responsible to maintain correct accounts of the packing materials received from the contractor. We is responsible to obtain indents few racking material in time. He will have control over the surging and

The Assistant Surgeon shall excercise full vigilance and disciplinary control over his section. The packers shall reasonaly responsible for the case handing of the materials and any leakages or loss during handling of packing shall be recoverable from the packers of the coniox packers shall examined the duttes and supervise the packers in the course of his normal duites. He is also responsible for maintaining watch of the packing materials drawn from the main stores and C.S.

The Assistant Surgeon shall attest that the packing was done under his supervision and the indent passing officer shall checkin delivery notes with the issues in the ledger concerned of the Sub-Stores and certify about its correctness. The shortages reported by the Indenters shall be verified with the existing stock ledger and physical belance and the action will be taken to made good shortage. The transposed agency shall also responsible for correct delivery of goods and to make good the shortages.

SUPPLY SECTION -

One Gradute Phermacist will act as Indent Passing Officer. The indent passing officer will be next in rank to the Chief Supervisor in his duties. He will have the thorough knowledge of the stock positions and watch the expenditure. He is responsible to see that druge which are about to become time bare are expediently disposed off. He is responsible to see that indents and pass such quantoties as admistible. He is responsible to see that the quantity passed are properly complied with and sent safely to all the indenterrs. He will investigat the complaints about any short supply received from ther after and obtained from the Joint Director.

TUBCHASE SECTION:

The staff attached to this section are usualiting the

Joint Director in floating tenders, preparing comparative statements,
attending to the preparation work of hate Contract. Watching the
stock position of the various items, procuring stores by placing orders
to the R.C firms and preparation of synoptic statement of the financial
year with the help of G.Ps of the stores and also accounts section.

They also assist in preparation of notes on the proceedings of the
Ihorapsutics Committee, Experts Committee and High Power Committee
Meeting. In addition to the procurement of the supplies in being attended to this section through R.C firms and during emergency and whenever the R.C firms fails to supply, these will be procured on local
purchase by colling for quotations and following purchase rules. Whenever the financial powers of the Joint Director exceeds they will obtain
the orders from the Director of light E.P.W Services, for procurement
of dru s etc:-

CCOUNTS SECTION:-

control of the Joint Director. Accounts Suptd: is responsible for scrutiny of all the bills received and for their prompt and correct disposal, for making payments to the concerned. He will guide the Joint Director in various purchase transcation and payments connecting to the G.M.S correctly. He will ensure that all the rules and conditions regarding the purchase and sayments are complied with by the firms before resuing the bills. In case of local purchases he will varify the purchase rules carefully and he is responsible for any lapses therein.

He is also responsible for ensureing the crompt payment by the Billing institutions, he will accutinise all the contigent bills and ensure about its correctness as per rules before they are submitted to the pirector for countersignature. He will have the bill preparating and bill accutiny and internal audit section. He will have that to maintain a reconcillation register and get its verify at the end of each month. He shall arrange for the postings of expenditure an respect of each institutions district wise on the basis of delivery notes sent to accounts sections. The accounts Superindent is responsible to maintien expenditure 0.0 Register for the supplies made on billing basis, reconcillation of receipt and expenditure etc:.

'A' B' & 'CED' STORES

Each one of the above stores is incharge of a Gradute Pher, madest and they are entrusted with the following duties. The G.Ps will be personally responsible for safe custody of articles under their charge and shall take proper care regarding their safe storage. They will receive the stores from the Chief Supervisor and make proper entries i

in the stock ledgers and keep the account properly. They will issue stores stores promptly to the packing yard when indents are placed. They will be responsible for proper maintainance of all stock ledgers day to day and see that both the receipt and issues are entered properly under their initials. They should keep watch about the drugk which are likely to become time berred and taken such action in time as are necessary under the advice of the indent passing officer and to avoid loss to Covt. They will submitt a list of drugs which are reqvired to be replanished once in every fifteen days to the Joint Piractor. They are presentily responsible for substitting the annual requirements for propearation of the consolidated annual incent of dauge. They are responsible for the strict discipling in the stores smend the staffamong the otses working there and bring it to the notice of the Joint Proctor when even they find lapses. They are also responsible for the correct entries in the delivery notes and for getting the leppore wif and delivery notes verified by the internal auditore.

STAGE ACCUMISTRATIONS.

The administrative section consists of One lay Secretary and a manager who is the section head of all the ections sho a against theme the Secretary will check all files and correspondence but up by these meetions which passes insough the Manager. Further the Toerstory will check at random the stock at the stores with reference to the brok belience and any shortages noticed will be brought to the notice of the I try threeter for further action. He will bisp empower to check the racking of drugalat the packing yard according to, and bring to the notice of the Joint Director, if packing is found incorrect. Secretary will reputinised all cerres ondence relating to the sections attached to the office (administrative) and posist the Joint director in all matters governed by rules.

The Manager is the sectional head through when all the cerses pendence will pass through. He will have to arrange for the proper distribution of work among the staff. He will get all the toppals opened in the presence of the Joint Director and marked them to the concerned w sections after it is seen by the Cocretary. He is responsible to maken maintain all confidentail reports and personnel filed and also property statements of all the staffs of the G.M.S.

He is entrusted with the work of maintaince and follow of all the disciplinary files of the staff and also files relating to taking action under K.C.S.R(CCA) rules. ELMILISIBIENT:-

The P.D.G is entrusted with all the correspondence relating to the establishments matters of the entire G.M.S Staff and maintaince of Dis. and preparation of salary and advances and TA bills of the staf ile is assisted by an soc.

CASH SECTION:-

The FDC is entrusted with the responsibility of the cash and maintainance of cash book and all other registers and correspondenct connected therewith. He is also entrusted with the recovery of Security Deposit and keeping of Security Deposit, Pass Book of the staff, and also he is responsible for maintaining the documents relating to the receipt side of the cash section.

AUDIT:-

of both accountant General and departmental audite and its followup action. He is also responsible to put up replace to the audit paras related out by the Public accounts committee?

FORM SECTION ..

The FDG is place incharge of this section. They will lookafter the stock and keeping up of all departments forms and registers, and also financial forms and registers required by the various medica and public health institutions of the state, he will prepare and place the indents of all forms and registers to the Director of Printing and stationary through Shasugh the Joint Director and keep watch of its timerly procurements. He will maintain the stock and issue registers and he is responsible for any losses if found. The supply of stationary and forms is the responsibility of Director of Printing and Stationary B'lore.

MISCELLANOUS SECTION:-

The SDC is entrusted with all the correspondence like electrical works, maintainance of telephone, maintainance of vehicles regarding water supply any other miscellaneous works etc.

INMARQI-

The SDC is responsible to maintain a despetch register of all tappale received and its proper distribution to all the sections and case workers.

QUITANDI --

The SDC is responsible to maintain a despatch register and the stamp account registers and he is responsible for the correct despatch of letters. This clerk is assisted by three literate attenders.

Stenographer is responsible to maintain a fair copying registers and also to see that the typing work goes smoothly without del

Two or more watch and ward shall always be present at the main enterance of this office building during working hours and keep watch over all the ClassIV(D group employees) about their movement and activities in the Goyt, Medical Stores, Premises. They shall see that no packer leaves the premises without the written permission of the supervisory staff. They shall maintain a register of daily chesks and report to the Joint Director. They are responsible for any lapses or laxity in checking the packers and their officials activities.

WATCH & WARD(External):-

Ward at the main gate of Govt.Medical Stores all the time during the day and four watch and Ward furing night. They shall throughly check all the Class'D' employees moving out of stores during lumbh hour and closing hours. It shall be thier duty not to allow any container, vessels bagas and other articles which are likely to beed for pilerage. They shall keep strict watch at the main gate as well as around the premises. The nigh watchman shall be religent through out the night and shall make continous rounds. They should be responsible for any damage to the building or property due to their necligent or laxity. They shall not allow any stranger within the premises within out the permission of the Chief Supervisors or Secretary during the absence of the Joint Director. They shall get enter the time of arrival and departure of all the visitor in the register maintained and report to the Joint Director any lapses notices in this behalf.

IRANSPORT: +

One truck is alleted to the govt. Medical Stores, or the purpose of transportation packages from the Govt. Medical Stores to the loxry booking offices or to the railway booking office as the case may be and in emergency this truck is being used for the transportation of goods to the pheripherall institutions according to the needs. As a matter of routine all the drugs are being transported through a larry agency whose rate contract is a accepted to all the medical and public health institute. One embassador car is alleted to the Joint Director for efficial use. The drivers of these vehicles are responsible to maintain log books and also the maintainance of vehicle, tools and spare parts. They shall attend to the work of getting, remewal of registration and tax exemption certificate and also the fitness certificate from the R.T.O office. They are responsible to maintain their driving licences in currency. He is assisted by a cleaner.

GENERAL !-

The Joint Director being the head of institution is the overall supervising and controlling authority of all the activities of the Government Medical Stores. The Joint Director is also the Drawing and disbursing officer. All bills put up by the Accounts Section are being

eigned by the Joint Director before presenting to the treasure. The annual stock verification of the stores to being conducted by the authorised by the Director of Health & F. W Dezvices, B'lore, and is being done during the month of April of each year. The Medical Stores catters supply services of drugs, equipments instruments and linen to all the departmental institutions through out the state as par the budget provision provided for each institutions. In addition Government Medical Stores is supplying drugs to the Medical Institutions maintained by local bodies quasi Govt. Bodies like corporations boards etc; and also autonomous body functioning under the orders of the Government on billing basis on presentation of thisr indente. The Joint Director attends to the work relating to preparation of Rate Contract for supply of drugs, equipments, instruments and linen for which tenders have been feeated by the Director of Health & F.W Services and also attending to the Experts and High Power Committee in this behalf for procurement of drugs and equipments etc. Orders will be placed to the R.C Firms and wherever there is no R.C to the Government of India and Government of Karntaka firms within the financial powers and wherever the financial powers enceeds the Director will place orders for procurement by the Medical Stores.

The Government Medical Stores has been provided with the budget provisions or procurement of drugs, equipments etc; for inturn supply to all the departmental pheripheral institutions for the year 1980-81,1931-82 and 1982-63 are noted below and the expenditure incurred their against also.

XEAU	BUCOLT ALLOTHINI	EXCENDITION
1980-81 1981-82 1982-83	3,77,97,500-00 5,31,30,840-00 5,96,07,782-00	3,45,54,188.00 5,27,65,607.00
		5,95,41,274-00

Yours faithfully,

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JOINT DIRECTOR,

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GOVERNMENT OF KARNATAKA

No.HFW 217 HPC 92.

Karnataka Government Secretariat, M.S.Building, Ist Floor, Bangalore, Dated: 7.9.1992.

CIRCULAR

Sub: Streamlining the system for supply of drugs, chemicals, surgical items, etc to Government Hospitals, Centres Units, Institutions, etc - regarding.

The Directorate of Health & Family Welfare Services with its Government Ledical Stores is responsible to supply drugs, chemicals and surgical items every year for a large number of Government Hospitals, centres, units and institutions. present system of indenting, procurement, quality control and supply needs to be further streamlined. Government has examined the system in detail and issues this Circular to further streamline the system.

INDENT-2. The following category of hospitals shall furnish the ING: annual indents directly to the Government Medical Stores in the prescribed format on or before the dates mentioned against them:

- a) Major and Teaching Hospitals
- b) District Hospitals
- c) TB Hospitals

to Government Medical Stores by 31st March every year.

- The District Health Officer shall be responsible to consolidate the indents for the hospitals and centres detailed below and furnish them to the Government Medical Stores on or before the dates specified against them:
 - a) Hospitals (other than Major & Dist Hospitals)

from the Unit Officer to.
District Health Officer c) Primary Health Centres by 7th Norch & from District Health Officer to Government Medical Stores by 31st March every year.

- Package Indents shall, be determined by a Committee of Officers and Doctors at the field for the following units and Centres:
 - a) Primary Health Units
 - b) Health & Family Welfare Sub-Centres
 - c) Survey, Education and Treatment Centres for Leprosy
 - d) Urban Leprosy Centres
 - e) Dental Units.

- 5. The package indents to be so determined shall be by a Committee of Doctors with the following composition:
 - a) Joint Director (Government Chairman Medical Stores)
 - b) One District Health Officer -
 - c) One Doctor Incharge of Primary Health Centre
 - d) One Doctor incharge of Primary Health Unit
 - e) One Lady Medical Officer
 - f) Chief Supervisor (Government Member Medical Stores) Convenor.

These doctors to be selected at random, one each from each of the four Revenue Divisions.

- 6: Package Indents shall be determined whenever a fresh rate contract for purchase of drugs, chemicals and surgical items is fixed by Government. The package indents shall be valid for the period of the rate contract.
- 7. The annual indents for the units and centres as per the package indents determined to be consolidated by the Government Medical Stores by 31ST MARCH every year.
- 8. The Unit Officers shall furnish the annual indents as per the calender determined in the format at Annexure-I to this circular.

INVENTORY

- 9. The Electronic Data Processing Unit of the Government Medical Stores shall be responsible for inventory control covering:
 - a) Stores Management
 - b) Purchases
 - c) Accounting
 - d) Rate Contract
- 10. The functions and responsibilities of Electronic data processing Unit shall be as per Annexure-II to this Circular. This shall be subject to modifications from time to time, depending upon the requirements and the modifications shall be made by the Directorate of Health and Family Welfare Services.
- 11. The Electronic Data Processing Unit, needs to be further strengthened in terms of trained personnel and equipment. The Director of Health & Family Welfare Services shall separate proposals in this regard for sanction of Government.

- to supply upto 60% of the budget provisions available every year for the following hospitals & Centres:
 - a) Major & Teaching Hospitals
 - b) District Hospitals
 - c) Minor Lospitals
 - d) Community Health Centres
 - e) Primary Health Centres
 - 13. Covernment Acdical Stores shall be responsible to surgly upto 100% of the budget provisions available every year for the following units and centres as per the Package Indents determined from time to time:
 - a) Primary Health Units
 - .. b) Health & Family Welfare Sub-Centres
 - c) Surveyy, Education and Treatment Centres for Leprosy
 - d) Urban Leprosy Centres
 - e) Dental Units
 - 14. Government Medical Stores shall be responsible to supply upto 100% of the budget provisions available every year under National programmes like (a) National Family Welfare Programme (b) Meternity and child Health Programme
 - (c) National Programme for Control of Blindness and
 - (d) Other programmes in which drugs, chemicals, etc. have to be supplied.
 - 15. The Unit Officers of the following hospitals shall be responsible to procure upto 40% of the budget provisions available every year depending upon local needs and requirements:
 - a) Wajor and Teaching Hospitals
 - b) District Hospitals
 - c) T.B.Hospitals.
 - 15. The Zilla Parisheds shall be responsible to procure upto 40% of the budget provisions available every year for the following hospitals and centres:
 - a) Minor Hospitals
 - b) Community Health Centres
 - c) Primary Health Centres

The Zilla Parishads to constitute a purchase Committee with the follwoing composition:

- a) Chairman, Health Standing Chairman Committee/Administrator
- b) Chief Secretary of the Zilla Parishad.
- c) District Surgeon
- d) One Medical Officer of a
- c) One Medical Officer of Primary Health Centre
- 1) District Health Officer Member-Convenor
- 17. The Zilla Parishad shall note the following guidelines in procurement:
 - a) Requirements of the interim period before receipt of stocks from Government Redical Stores:
 - b) Emergent requirements depending upon local needs and conditions;
 - c) Items not indented for supply from Government Medical Stores;
 - d) Anti-rabbis vaccine, anti snake venom, ADS/ATS/AGGS
 - e) Disinfectants

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- 18. The Unit Officers and the Zilla Parishads while procuring supplies upto 40% of the budget provisions available every year, shall purchase only under the valid rate contract issued by the Department of Health & Family Welfare Services.
- 19. Government Medical Stores shall be responsible to consolidate the indents received under para 12, 13 & 14 of the Circular, by 30th April every year. The Joint Director (Government Medical Stores) shall obtain the indents from the Unit Officers and arrange for consolidation.
- 20. Procurement shall be made only with reference to the indented items by each of the hospitals, centres, units and institutions. Under no circumstances items not indented for should be procured, and the quantity procured shall be only in accordance with the consolidation of indents received.
- 21. Purchase orders on the manufacturers/suppliers under the valid rate contract to be placed as per the following calendar:

...5.

a) I Sound Furchase

by 15th May

b) II Lound purchase

by 15th July

e) III Round purchase

by 15th September

d) IV Round purchase

by, 15th November.

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These purchase orders should ensure availability of stocks to make supplies as per the supply schedule determined.

22. In accordance with the consolidated indents, Government Medic 1 Stores shall hold stocks of essential and emergency drugs required for 3 months to meet immediate and urgent requirements. Furthers orders to be scheduled to ensure the avail bility of such reserve stocks.

QUALITY CONTROL:

- 23. To ensure quality control, the stocks received as per the orders shall be subjected to:
 - verification with reference to specifications;
 - Verification with reference to quality;
 - expiry dates;
 - d. Verification with reference to quantity indented and supplied;
 - Obtaining analytical report from the manufacturer/supplier for each batch of supply;
 - f. Furnishing samples of each batch of stocks received to the Drugs Controller in Karnataka for analytical report;
 - Obtaining replacement of stocks \u20e4 which are nearing expiry dates;
 - h. Action against defaulting manufacturer/ supplier for contravention of the terms of the rate contract;
 - i. Destruction of sub-standard items;
 - j. Strict enforcement of terms and conditions of the rate contract.

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The Joint Director (Covernment Medical Stores) and the Chief Supervisor (Government Medical Stores) shall be responsible for quality control.

to the Experimental Commission of the Commission of



SUPPLY ,。(31) 因此是

The stocks produced in accordance with pare 21 of the Circular shall be distributed as per the following column .

	ion ital/Contre/Init/ Latitution/District.	Bionth
1.	All segor and "Coching Hospitals and T. Hospitals	June & July
2.	Goorg and Chickmoralur Districts.	June July
3.	id a, Guibergo & Reichur Districts.	Aupuet
4.	allery. Chitrodurge and Shiroga	Septemen
5.	Discount, of our and Bijajur Districts.	Cetober
ľì.	Indiahima Kamada, Uttara Kamada Sugalore Urben and Bural Districts.	Novembor
7.	Kolon, Purkur and bassan Districts.	Decamber:
8.	Tyrone and Condyn Districts	January

coverage of tedical Stores shall ensure distribution or you the geleader detailed including the Packers Tratante.

The Unit Officer and the District Health Officers shall be remembile to obtain the stocks from the Government colenistores se per File calendar and further re-distribute them to various bospitals, centres, units and inclitations within the district. Such re-distribution shall be completed within 7 days from the date of receipt of the strake.

Harberton 26. aliD VERIFICA-

- The init Officers and the District Health Officers shall cause verific tion of the stocks received with reference TION. to the ctocks indented, quality and expiry dates of the items received and report promptly to the deverment isodical Storer if there is any discrepency or varietion.
 - The Joint Director (Government Ledical Stores) shall be restousible for verification of stocks in the stores of the Government Fooienl Stores at the end of every six months and furnish ecutivients to the Director of Health and Femily Wellie Services of for Annexure-III to this Gircular.
 - The Director of Health and Family Welfare services shall cause appeal verification of stocks at Covernment Bedical stores during April and May every year by the Chief Accounts Officer of the birectorate and one officer of the rank of surgeon.

- 29. The Programme Joint Directors of Directorate of Health & Family Welfare Services, and Joint Director (Medical Education) Directorate of Medical Education, shall be responsible for verification of stocks in various hospitals, centres, units and institutions as detailed below:
 - 1. Joint Director (Medical Education) ... All teaching hospitals.
 - 2. Joint Director (Health & Planning)
 - 3. Joint Director (Realth & Edn. Training)
 - 4. Joint Director(Communicable Diseases)
 - 5. Joint Director(Leprosy)
 - 6. Joint Director(Malaria)
 - 7. Joint Director (Medical)
 - 8. Joint Director(Ophthalmology)
 - 9. Joint Director(Government Medical Stores)

These Programmes, the Joint Directors shall verify the stocks at random in various hospitals, centres. units and institutions during their tours in the districts, in addition to their normal duties and furnish separate reports to the Joint Director (Covernment Medical Stores) as per Annexure-IV to this Circular.

- CENERAL
- The Director of Health & Family Welfare Services shall ensure strict adherence to these Circular insturctions. The Joint Director (Government Medical Stores) shall be directly responsible to ensure compliance to these Circular instauctions.
- 31. This circular shall come into force with immediate effect.

(B)PRASANNA KUMAR) Under Secretary to Government, To:

Health & Family Welfare Department.

1. The Director, Health & Family Welfare Services, Bangalore.

2. The Director, Medical Education, Bangalore.

- 3. The Joint Director, Government Medical Stores, Bangalore.

- 3. The Joint Director, Government Medical Stores, Bangalore.
 4. The Chief Secretary, All Zillaparishads.
 5. All District Health & Family Welfare Officers.
 6. The Chief Supervisor, Givernment Medical Stores, Bangalore.
 7. All District Surgeons.
 8. All Joint Directors, Divisional level
 9. All Superintendents, Districts and Major Hospitals.
 10. Finance Department/ Planning Department.
 11. P.S. to Hon'ble Minister for Health & Family Welfare.
 12. P.A. to Secretary (H) & (F.W), Health & F.W. Department.
 13. The I.F.A., Health & F.W. Department.
 14. All Under Secretaries in Health & F.W. Department.
 15. All Section Officers in HFW Department.

 - 16. S.G.File/Spares.

ANNEXURE-I

ANN EXURE TO GOVERNMENT CIRCULAR NO.HFW 217 HPC 92

DATED 7TH SEPTEMBER 1992.

INDENT FOR SUPPLY OF DRUGS, SPECIALITIES, CHEMICALS, TINCTURES AND SURGICAL ITEMS.

1	INSTITUTION CODE ()6.	HEAD OF THE INSTITUTION (25) CHARACTERS)	
		INSTITUTION NAME (25 CHARACTERS)	
3	. LUDGET K JEASED	A CIP	
4	v I UVm 1 X d	· INSTITUTION PLACE (25 CHARAGER)	
5	. BALANCE9	. TALUK & DISTRICE	
	10	. PIN CODE	
-	NAME OF THE FORMULA-	LAST STOCK QTTY QTTY YEAR (N RE- IN	RATE AMOUNT
1	ORUG CODE TELM TICH	CCNSUM - HAND QUI- MPU	3 4
		PT ICN RED	
	· · · · · · · · · · · · · · · · · · ·		

NC. CF ITAS INDENTED

SIGNATURE OF THE INDENTING MEDICAL OFFICER WITH SEAL

....<u>A MM AXURE</u>—LI

ANN EXURE TO GOVT. CIRCULAR NO.HFW 217 HPC 92, DATED

I. STORES MANAGEMENT SYSTEM

- A. RECLIVING THE ROBERTS TO AND CODED INDENTS
- B. DATA LAIRY OF THE INDEN IS
- C. DATA VALIDATION
- D. PALALAGE INCENT ANALYSTS REFORT, REFLECTING THE AVAILABLE IN CF THE DRUGS AND COST OF THE INDENT WHE SHALL DESENT TO THE JOINT DERECTOR (MEDICAL STORES)/
 IPO FOR APTROVAL. THE ORIGINAL INDENT AND I.A.R. ARE SUBMITTED FOR SCHOOL AND ACCURACY OF THE DATA WHICH SHOULD BE DOING BY THE T.P.O. FOR WHICH HE IS FULLY ALSPONDED.
- E. BASED ON INDEST ANALYSIS REPORT FINAL ALLOCATION AND UPDATION OF STOCK FILES AND BUDGET FILES ARE MADE IN COMPUTER.
- F. DELIVERY NOTE'PRINTING IN COMPUTER AS PER THE QUANTITY OF DIFFERENT ITEMS ALLCCATED.
- G. AS AND WHEN THE STORS ARE RECEIVED, THE STOCK FILES ARE UPDATED.
- H. BUDGET FILE ARE UTDATED AS AND WHEN BUDGET IS RELEASED.

PURCHASE SYSTEM

- A. BASED ON THE REQUIREMENT BOOKS, THE DATA ENTRY WILL BE DONE. A CHECK LIST WILL BE SUBMITTED TO THE JOINT DIRECTOR (MEDICAL STORES) FOR VERIFICATION OF THE DATA.
- B. (CN THE APPROVAL (F THE PURCHASE INDENT BY THE JOINT DIRECTOR (MEDICAL STORES) INDENT FOR COUNTERSIGNATURE WILL DE PROCESSED. PRINTED AND SUBMITTED TO JOINT DIRECTOR (MEDICAL STORES) (ALONGWITH CHECKLIST AND FLOPPY CONTAINING THE ABOVE INFORMATION) FOR SUBMISSION TO DIRECTOR OF HEALTH & F.W. SERVICES.
- C. AFTER RECEIVING THE COUNTERSIGNED INDENT, PURCHASE CREEKS ARE PRINTED AND SUBMITTED TO THE JOINT DIRECTOR (MEDICAL STORES)

A JOCUNTING SYSTEM

- A. ACCOMES REDELVAGLES
- B. ACCC HIS PAYABLE
- C. JIMP PROCEDURE FOR TREASURIES (BILLS GENERATION)

RATE ONTRACT SYSTEM

- A. LIST OF TRANSPORTED TO THE LAPEUTIC COMMITTEE FOR THE CESSARIE UPDATIONS WITH RIFERENCE TO THE TOPAR MONTAL NEEDS.
- D. A CLA ALBACVAL OF LLST OF ITEMS BY THE THERAPEUTIC TITES. THE CHICKEIST OF DRAFT TENDER FORM WILL TRINGED AND SUBMITTED TO JOINT DIRECTOR (MEDICAL STORES) WHO IS A MEMBER SECRETARY OF THE COMMITTEE OF VERIFICATION.
- C. L.AFT PENDER FORMS PRINTED FOR THE ITEMS WHICH ARE AFTROVED BY THE THERAPEUTIC COMMITTEE.
- D. FINAL TEMBER FORMS WILL BE PRINTED AND SENT TO DIRECTORATE FOR FLOATING OF TENDERS.
- E. DATA ENTRY OF THE PENDERS REC IVED AND CHECKLIST WILL BE SUBMITTED TO THE JOINT DIRECTOR MEDICAL STORES).
 FOR VERIFICATION.
- F. PRINTING OF COMPARATIVE STATEMENT WITH ALL THE CORRECTIONS.
- G. UPDATING EXPERTS COMMITTEE RECOMMENDATIONS AND PRINTING OF THE EXPERTS COMMITTEE RECOMMENDATIONS.
- H. UPDATING OF HIGH FOWER COMMITTEE RECOMMENDATIONS
- I. ISSUING OF THE RATE CONTRACT TO THE TENDERERS AND I'C ALL THE INSTITUTIONS (WHICH IS TENDERER WISE AND LILM WISE).

ANMEXURE-III

Annergre to Covernment Circular No.HFW 217 HFC 92 dated 7th September 1992 Half yearly stook Verification Certificate by Joint Director (Govt Medical Stores).

- 1. Half Year ending.
- 2. Dates/period of verification:
- 3. Quantity of stocks:

Item Unit

Balancefron fre half

Year.

Stocks procured during the

half year.

Total stocks

Variation to purchase orders

a) " A" Stores injection

b) " A" Stores Tablets

- c) " B" Stores
- d) " C & D " Stcres.

(Itemwise lists for each stores to be furnished & certified)

4. Nature of Stocks:

Item Unit

Sub-standard Date expired

Damaged

- a) 'A' Stores Injection
- b) 'A' Stores Tablets
- c) 'B' Stores
- d) 'C&D' Stores

(Itemwise lists as per observation)

5. value of Stocks - (As.in lakks) Value of opening stock

Stock purchased

Total Value

- a) 'A' Stores In action
- b) 'A Stores Tablets
- c) '3' Stores
- d) 'Cap' Stores'

TC+27:

(Value Storewise only)

6. General Observation:

JD (Medical) Achin nighther Graducti Secretary peckaging chief FDA Phoenecists medical Sufferindent SDA (Medical) o)fical stend grang. D Indent: teccurry Computer Sa alident proseing Packaging -

Confidential

Joint Director (Government Medical Stores)

Duties and responsibilities

The Joint Director (J.D.). Government Medical Stores, is the Head of the Department of Medical Stores and is in overall charge of the department.

He/she is the controlling authority of all the sections of the Government Medical Stores. The sections are

- * Chief Supervisor section
- * Packing yard
- * Purchase section
- * Accounts Section
- * Stores (A,B,C and D) and
- * Office (administration)

He/she will assist in floating tenders, preparing comparative statements and attending to work related to the Rate Contract. He/she will also assist in the work of the Therapeutics, Expert and High Power Committees.

He/she is responsible for the purchase of the medicines, instruments and equipment as per rate contract.

He/she will ensure that reorder levels and economic order levels are worked out for the items under rate contract and place orders sufficiently in advance to ensure adequate supplies on time.

He/she will work out the ABC and VED analysis and practices of $^{\bullet}$ good material management.

He/she will make local purchases, calling for quotations and following store purchase rules, when

- the Rate Contract firm fails to supply when the purchase will be made at the risk and cost of the R.C.Firm, or
- there is emergency requirement.

The financial powers for such local purchase will be limited to Rs. 25,000/- for any individual purchase (the purchase for any item at a time should not be split to get over this ceiling). In case there is need for exceeding the financial limit, orders must be obtained from Director of Health and Family Welfare services or the Government if it exceeds the powers of the Director of Health and Family Welfare services.

He/she will ensure the smooth working of the department.

He/she will call periodical meetings of the heads of sections, at least once a month, review progress of work and plan the future work.

He/she will ensure that the drugs purchased, in stock and supplied meets the needs for rational use of drugs, and that the drugs are

- safe and are not banned:
- of good quality and according to specifications; and
- according to the rate contract.

The Joint Director will be responsible for quality control, along with the Chirl Supervisor.

The Joint Director will investigate complaints about

- short supplies received by the indentors,
- substandard or spurious drugs, and
- such other matters regarding supplies,
 and take appropriate action.

The Joint Director will arrange for periodical stock taking and physical verification and the report will be sent to the Director, Health and Family Welfare Services for further action.

The annual stock verification will be conducted by the Directorate of Health and Family Welfare Services.

The Joint Director will maintain all performance appraisal confidential reports of the staff in the Department and take appropriate action for improvement of the Department.

He/she will take necessary action for human resources development and continuing education/training of the staff in the department.

The Joint Director is the Drawing and Disbursing Officer of the Department.

The Joint Director reports to the Director of Health Services and Family Welfare.

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DUTIES AND RESPONSIBILITIES OF THE CHIEF SUPERVISOR

- 1. The Chief Supervisor is next in rank in Administration to the Joint Director, Government Medical Stores. He/she shall discharge all the administrative duties when the Joint Director is on leave or on other duties.
- 2. He/she is responsible to receive all supplies from the various firms with whom orders would have been placed by the Joint Director, Government Medical Stores or by the Director of Health and Family Welfare Services; he ensures that the supplies are received on time and in conformity with purchase the orders.
- 3. He/she will compare the quality and the specifications of the materials supplied by the Firms with that of the approved samples, and bring to the notice of the Joint Director, any variations or shortcomings in the said supplies and obtain his/her orders. The Chief Supervisor will be responsible for quality control along with the Joint Director.
- 4. The Chief Supervisor is responsible for maintenance of "DAY BOOK" of purchases day to day and make entries in the said book under his signature and obtain the initials of the Joint Director for each transaction.
- 5. He/she is responsible for the safe custody of the articles received till such time as they are handed over by him/her to the concerned stores.
- 6. He/she is personally responsible also for the safe delivery of the stock to the concerned stores, and make necessary entries under his own signature to that effect and obtain the full signature of the receiving officer at the stores (Graduate Pharmacist).
- 7. He/she is responsible for the safe custody of samples received from various firms and he/she will undertake to demonstrate the samples as and when required by the Joint Director, GMS or Director, Health and Family Welfare Services, or the Expert Committee.
- 8. He will maintain a register of samples received and disposed off.
- 9. He will investigate any short or faulty compliance to the indenters and obtain the orders of the Joint Director.
- 10. He is responsible to maintain uptodate the following registers:
 - i) Register providing particulars of RC Firms who fail to comply with the supply orders either in full or partially indicating orders No. and date, particulars of drugs ordered for supply, financial value of the orders placed for supply.
 - ii) Register providing particulars of drugs not replaced by fresh stock when declared substandard by the Drug Controller, indicating batch number, date of expiry, quantity, financial value.

iii) Register providing particulars of drugs nearing date of expiry which are not replaced when asked for, by the firms indicating batch number, quantity of drugs, financial value of the said drugs.

iv) Register of drugs nearing expiry date, and will send a written note three months in advance of the likely expiry of the drugs in stock to the concerned stores and the computer section to check up and to take further action at their end.

11. He/she will be responsible for taking action to recover the cost of drugs from various firms who failed to replace drugs nearing date of expiry, drugs declared substandard, drugs which are deteriorated, drugs and chemicals if found leaky and pilfered from the containers.

12. He is responsible to inform immediately the instance of banning of any drugs to the computer wing for recording and taking action.

13. He will work out and submit reports to the Joint Director the requirement of each of the drugs for the next quarter year, at the end of each preceeding quarter ending 30th June, 30th September, 31st December and 31st March.

14. It is the responsibility of the Chief Supervisor to see that the various Stores/rooms are properly locked securely, closed and sealed in his presence at the end of each day's work and take acknowledgements of the concerned stores keepers to that effect, and report to the Joint Director.

15. He is responsible for obtaining the analytical reports from the manufacturers for each batch of drugs supplied.

16. He is responsible for furnishing samples of each batch of stock received to the Drugs Controller in Karnataka for obtaining analytical report.

17. He will send daily report of drugs received upto 1 p.m. on any working day to computer section and stores simultaneously.

18. He will participate actively in the departmental meetings, which will be held not less than once a month, to review and take action for the smooth functioning of the department.

19. He is responsible for the proper cleanliness of the premises and disposal of waste.

20. He will carry out any other activity which may be entrusted to him for ensuring adequate supplies of medicines, quantitatively, and qualitatively.

The Chief Supervisor reports to the Joint Director.

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Medical Officer in charge of Packaging Yard (M.O.P.Y.)

The Medical Officer is in charge of the Packaging Yard. He will discharge the duties of the Joint Director, when both Joint Director and Chief Supervisor are not available.

The Medical Officer is responsible for the correct despatch of articles. He/she will receive the indents and pass them, after scrutinizing them for levels of supply appropriate for the institution and availability of budget.

M.O.P.Y. will exercise proper supervision over the packing yard and during the actual packaging of the materials.

He/she is responsible for getting the compiled indent entered in the gate pass book under his/her signature and submit the same to the Joint Director.

He/she will certify the delivery note that the packing was under his/her direct supervision. His/her assistants will certify that the packing was done in his/her presence. The packers' name (s) shall be noted, with the number of boxes used, in the columns provided.

M.O.P.Y. is responsible for the correct delivery of the goods to the lorry driver or clerk, in the presence of the watch and ward.

He/she is responsible to obtain the indents for packing materials on time, ensure supplies and maintain the correct accounts of the packing materials received from the contractor. Packing work should not suffer from want of packing materials.

He/she is responsible for the strict discipline of the staff in the section.

M.O.P.Y. will report to the Joint Director.

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DUTIES AND RESPONSIBILITIES OF THE GRADUATE PHARMACISTS

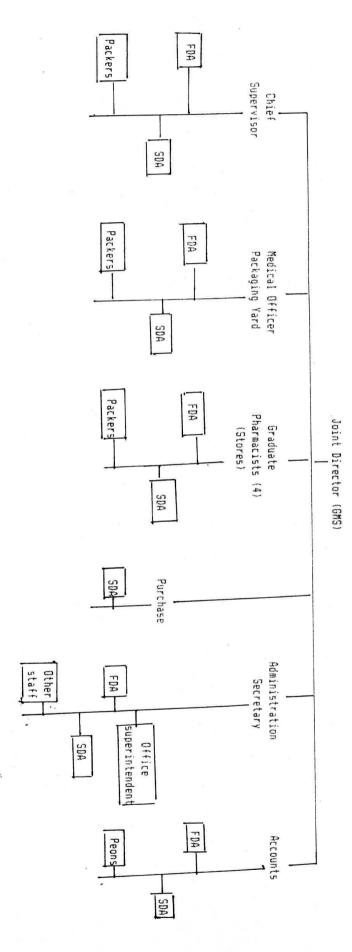
- The Graduate Pharmacists in charge of stores will be personally responsible for the safe custody of the articles under their charge and shall exercise proper care in their safe and proper storage.
- They will receive the stores from the Chief Supervisor as and when he calls for them to do so and make proper entry in the stock ledgers and keep an account for them.
- 3. They will promptly issue stores to the packing yard whenever indents are placed for the same.
- 4. They will be responsible for the proper maintenance of all stock ledgers day-to-day and see that both the receipts and issues are entered under their initials.
- 5. They will submit a list of drugs which require replenishment in stock every fifteen days without fail to the Joint Director, Government Medical Stores.
- 6. The Graduate Pharmacists will be watchful of the drugs:
 - i) likely to become time barred and take action as necessary under the advice of JD,GMS;
 - ii) drugs coming under cold chain system are properly stored at the low temperatures as required and no other items other than drugs are kept in the refrigerators;
 - iii) watch narcotic and addictive drugs;
 - iv) watch that drugs banned by Drug Controller do not find their way into the stores; in the event such drugs are on stock, they are immediately identified and destroyed and discounted from stock under the orders of Joint Director;
 - v) the longevity of drugs as at the point of supply; whether they have 75 per cent of life if supplied through RC; if not, immediately bring it to the notice of Joint Director and seek his orders.
- 7. a) The Graduate Pharmacists will be responsible for maintaining batchwise stock and issue drugs batchwise, on first in first out basis.
 - b) It is his/her responsibility to see that refrigerators are examined and inside temperature measured twice a day and recorded twice a day. It is his duty to immediately report to Joint Director if be finds any refrigerator faulty or goes out of order.

- 8. The Graduate Pharmacists are personally responsible for furnishing annual requirements of the respective stores for the preparation of the consolidated annual medical indent of Government Medical Stores, keeping in view the past twelve months stock expenditure and balance.
- They will be responsible for strict discipline amongst the staff working under their control.
- 10. They will promptly report to the Joint Director when they suspect that any of the staff is not discharging his/her duties properly or when he/she may be involved in any irregular act.
- 11. They will be responsible for the correct entries in the delivery notes and for getting the ledgers and delivery notes verified by the internal auditor (one of the FDA to function as internal auditor).
- 12. They will see that the doors, windows and other possible entry points of the stores are closed securely and sealed in his/her presence at the end of the day's work and certify to that effect in the register maintained by the Chief Supervisor.

The Graduate Pharmacists report to the Joint Director.

Government Medical Stores

Organizational Flow Chart



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Confidential 3 copies

Joint Director (Government Medical Stores)

<u>Duties</u> and responsibilities

The Joint Director (J.D.). Government Medical Stores, is the Head of the Department of Medical Stores and is in overall imcharge of the department.

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- He is responsible for the safe custody of samples received from various firms and he will undertake to demonstrate the samples as and when required by the Joint Director, GMS or Director, Health and Family Welfare Services, or the Expert Committee.
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- 19. He is responsible for the proper cleanliness of the premises and disposal of waste.
- 20. He will carry out any other activity which may be entrusted him for ensuring adequate supplies of medicines, quantitatively and qualitatively.

The Chief Supervisor reports to the Joint Director.

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Medical Officer incharge of Packaging Yard (M.O.P.Y.)

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He/she is responsible for getting the compiled indent entered in the gate pass book under his/her signature and submit the same to the Joint Director.

He/she will certify the delivery note that the packing was under his/her direct supervision. His/her assistants will certify that the packing was done in his/her presence. The packers' name (s) shall be noted, with the number of boxes used, in the columns provided.

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He/she is responsible to obtain the indents for packing materials on time, ensure supplies and maintain the correct accounts of the packing materials received from the contractor. Packing work should not suffer from want of packing materials.

M.O.P.Y. will report to the Joint Director.

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Confidential

DUTIES AND RESPONSIBILITIES OF THE GRADUATE PHARMACISTS

- The Graduate Pharmacists incharge of stores will be personally responsible for the safe custody of the articles under their charge and shall exercise proper care in their safe and proper storage.
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- They will promptly issue stores to the packing yard whenever indents are placed for the same.

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7. a) The Graduate Pharmacists will be responsible for maintaining batchwise stock and issue drugs batchwise, on first—comeix, first-served basis.

b) it is his/responsibility to see that refrigerators are examined and inside temperature measured twice a day recorded twice a day. It is his duty to immediately report to Joint Director if be finds any refrigerator faulty or goes out of order.

Graduate Pharmacists

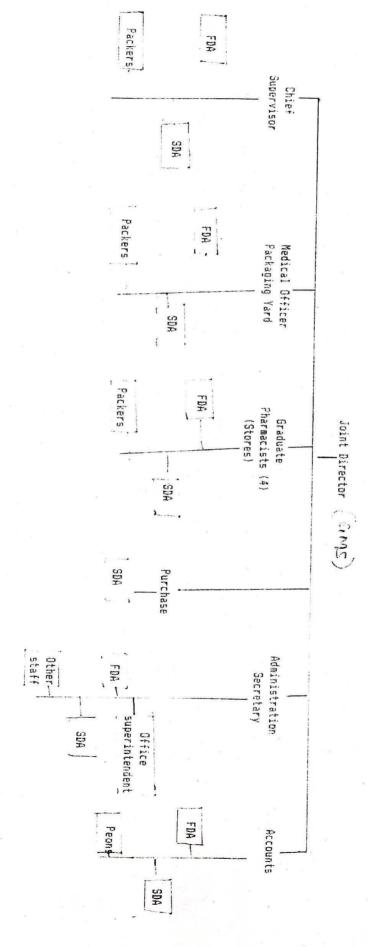
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11. They will be responsible for the correct entries in the delivery notes and for getting the ledgers and delivery notes verified by the internal auditor (one of the FDA to function as internal auditor).

12. They will see that the doors of the stores are closed securely and sealed in his presence at the end of the day's work and certify to that effect in the register maintained by the Chief Supervisor.

S The Graduate Pharmacists reports to the Joint Director.

Organizational Flow Chart



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SL. NO.	ITEM CODE	ITEM	CLASSFI- CATION	PACKING	QUANTITY	UNIT RATE A	MOUN"
	100100-	Aluminium Hydroxide - 500mg Tab.	a B	1000	5,000.00	148.00	740,000.00
2	100200	Magnesium Trisilicate - 500mg Tab.	A	1000	12,000.00	144.00	1,728,000.00
3	100600	Atropine Sulphate - 0.6mg/ml Inj.	В	1 amp	900,000.00	1.05	945,000.00
4	101000	Paraffin Liquid	E	450ml	700.00	40.50	28,350.00
5.	101401	Loperamide - 2mg Tab.	A	100	35,000 .0 0	39.50	1,382,500.00
6.	101600	Digoxin - 0.25mg	С	500	1,000.00	98.50	98,500.00
7.	103000	Mephentermine - 30mg/ml	C	10ml	12,000.00	34.46	413,520.00
8.	103001	Mephentermine - 15mg/ml	С	1 m l	2,000.00	2.72	5,440.00
	103455	Spironolactone - 25mg Tab.	E	100	200.00	113.40	22,680.00
10.	103500	Adrenaline - 1 in 1000/	8	1 m l	66,000.00	1.60	105,600.00
11.	104300	Acetylsalyclic Acid - 300mg	A	1000	35,000.00	80.00	2,800,000.00
12.	104900	Paracetomol - 125mg/5ml	A	450ml	90,000.00	61.65	4,932,000.00
13.	105000	Paracetamol - 500mg	A	1000	30,000.00	172.50	5,175,000.00
	105101	Pentazoc≇ne - 25mg IP Tab.	C				
136.		Pentazocane - 30mg/ml					
14.	105300	Phenobarbitone - 30mg	2	1000	4,000.00	180.00	720,000.00
15.	105400	Phenoberbitone - 60mg	8	1000	3,000.00	330.00	990,000.00
16.	105200	Phenobarbitone - 200mg	C	1m1	2,500.00	2.15	5,375.00
17.	105500	Chlorpromezine - 25mg/ml	C	2m1	18,000.00	4.31	77,580.00
18.	105700	Chlorpromazine - 25mg	2	1000	275.00	172.12	47,333.00
17.	105800	Chlorpromazine - 50mg	C	1000	250.00	307.44	76,850.00
0.	106500	Promethazine - 10mg	Α				
		Promethazine - 25mg					
		Promethazine - 25mg/ml					
		Promethazine - 5mg/5ml					20,293,738.00

20,293,738.00

BL. NG.	ITEM CODE	ITEM	CLASSFI- CATION	PACKING	QUANTITY	UNIT RATE	AMOUNT
						e 1	20,293,738.0
21.	106700	Phenytoin Sodium - 100mg	C	1000	350. 00	1,419.00	495,550.0
22.	106710	Carbamazepine - 200mg	8	100	3,300.00	190.60	628,980.0
23.	107200	Ibuprofen - 400mg	Α	1000	4,500.00	563.00	2,533,500.0
24.	107201	Ibuprofen - 200mg	Α	1000	4,000.00	323.00	1,292,000.0
25.	108400	Dexamethazone- 4mg/ml	A	2m1	250,000.00	7.90	1,975,000.0
26.	108500	Hydrocotisone sodium succinate - 134m.eq.	2	1 vial	7,500.00	10.75	80,625.0
27.	108600	Prednisolone - 5mg Tab.	A	1000	5,000.00	450.00	2,300,000.0
28.	108601	Prednisolone - 10mg Tab.	C	100	5,000.00	83.00	415,000.0
29,	109100	Glibenclamide - 5mg	C	1000	1,500.00	151.00	241,500.0
30.	109800	Frusemide - 20mg/2ml	С	2 m 1	190,000.00	1.98	356,400.0
31.	110600	Methyl Ergometyne - 0.2mg/ml	Α	1 m 1	500,000.00	8.92	5,350,000.
32.	110700	Methyl Ergometyne - 0.125mg	A	500	1,000.00	1,100.00	1,100,000.
33.	111000	Oxytocin - 10 IU/ml	3	1.00ml	300,000.00	1.08	325,000.
34.	111300	Tetracycline - 250mg	A	1000	13,000.00	345.00	4,485,000.0
35.	111500	Ampicillin - 250mg		250mg	330,000.00		
		100 vials in CBBB	A			5.70	2,211,000.0
3á.	111800	Ampicillin - 250mg Cap.	Α	1000	7,500.00	1,676.88	12,576,562.5
37.		Ampicillin - 125mg Syr.		40m1		9.43	
38.	112000	Chloramphenicol - 250mg IP Cap.	A	1000	4,000.00	2,000.00	8,000,000.0
39.	112001	Chloramphenicol - 1g vial					
! 0		Chloramphenicol - 150/5ml					
11.		2 4 4					
12.	112300	Erythromycin estolate (25mg/5ml	А	80ml	50,000.00	22.93	1,146,500.0
13.	a .	Erythromycin oral 250mg					
						20	65,807,455.

L. 16.	ITEM CODE	ITEM	CLASSFI- CATION	PACKING	QUANTITY	UNIT RATE	AMOUNT
4.	112700	Benzyl Pencillin - 5 lac IU (100 vials)		1.00 vial		4.10	65,907,455.50 615,000.00
5.	112800	Benzyl Pencillin - 10 lac IU	A	1.00 vial	300,000.00	8.02	2,406,000.00
6.	112900	Procaine Pencillin - 4 lac IU	A	1.00 vial	500,000.00	6.38	3,190,000.00
7.	113000	Procaine Pencillin - 20 lac IU	. A	1 vial	600,000.00	12.50	7,500,000.00
3.	113100	Benzathine Pencillin - 6 lac IU	С	1 vial	40,000.00	6.25	250,000.00
9.	113200	Benzathine Pencillin - 12 lac IU	В	1 vial	50,000.00	10.25	512,500.00
0.		Benzathine Pencillin - 24 lac IU		1 vial		19.65	0.00
1.	113900	Ethanbutol - 200mg IP	A	1000	6,500.00	470.00	3,055,000.00
2.	113901	Ethanbutol - 400mg IP	A	1000	1,300.00	877.00	1,140,100.00
3.	114000	Isoniazid - 100mg	C	1000	4,000.00	74.00	295,000.00
4,	114300	Refampicin - 150mg	A	1000	3,000.00	1,385.00	4,158,000.00
5.	114400	Refampicin - 300mg	A	1000	2,000.00	2,338.70	4,677,400.00
6.	114500	Streptomycin - 1g IP Inj.	A	1000	15,000.00	5,160.00	77,400,000.00
7.	115100	Clofazimine - 100mg Cap.	С	100	2,000.00	179.48	358,960.00
8.	115101	Clofazimine - 50mg	C	1000	180.00	864.00	155,530.00
9.	116500	Mebendazole - 100mg/5ml	С	30m1	1,750.00	3.19	14,332.50
0.	116600	Mebendazole - 100mg IP	£.	1000	10,000.00	1,103.33	11,033,333.33
1.		Metronidazole - 200mg	Α .				
2.		Metronidazole - 400mg					2
3.		Ferrous Fumarate - 150mg + Folic Acid - 2.5mg	A °	1000	25,000.00	105.10	2,627,500.00
. ,		Ferrous Sulphate - 200mg + Folic Acid - 0.5mg	A.			*	
,		Folic Acid - 5mg	С			s = u	
ı. İ	18900	I.V. Dextrose - 5% IP	A	540ml	200,000.00		
'. i	19100	I.V. Dextrose - 25%	C	25ml	25,000.00		

185,197,101.33

	SL. NG.	ITEM CODE	ITEM	CLASSFI- CATION	PACKING	QUANTITY	UNIT RATE	AMOUNT
					25-1	E 444 44		185,197,101.33
	68. 68.	119200	I.V. Dextrose - 50%	C	25al	5,000.00		
	69. 	119800	Sodium Bicarbonate - 7.5%	В	25ml	25,000.00		
	70.		Sodium Bicarbonate - 7.5%	B	10ml			
	71.	119900	Sodium Chloride - 0.9% IP	A	540ml	125,000.00		
	72. 	120000	I.V. Dextrose 0.5% + Saline 0.9%	A .	540ml	300,000.00		
	73.	120200	Molar Lactate	В	540ml	40,000.00		
	74.	121000	Vitamin A in aquous base - 50000 IU/ml Inj.	C	2m1	100,000.00	2.90	290,000.00
į	75.		Vitamin A Syr.	8	50000 IU			
7	76.		Vitamin A Tab./Cap.	С				
7	77.	121200	Vitamin B Complex NFI Inj. 100 vial	С	10ml	50,000.00		
7	78.	121300	Vitamin 8 Complex Therapeutic Tab. NFI	A	1000	50,000.00	700.00	35,000,000.00
7	79.	121800	Vitamin C Tab 100mg	0	1000	1,000.00	276.00	275,000.00
8	30.	122202	Salbutamol - 2mg/5ml Syr.	C	120æl	500.00	11.85	5,930.36
8	31.		Salbutamol - 2mg Tab.	C	1000	1,000.00	193.00	193,000.00
9	32.	122400	Terbutalin - 2.5mg Tab.	A	1000	5,000.00	245.00	1,225,000.00
3	3.		Terbutalin - 0.5mg/ml Syr.					
3	4.		Aminophylline - 2.5% IV IP 10ml	В	10ml	175,000.00	3.08	539,000.00
3	15.		Deriphylline - 100mg Tab.	A				8
8	6.		Deriphylline - 110mg/ml Inj.					
8	7.		Deriphylline - 60mg/5ml Syr.					
8	8.	123201	Chloramphinicol - 0.5% Eye Drops	C	5m1	50,000.00	4.77	238,500.00
8	9.		Chloramphinicol - 1% 8.P. cintment (Aplicaps)	С	(for 1 cap)	50,000.00	0.29	14,280.00
7	٥.	124300	Pilocarpine - 2% Eye drops NFI	C	501	4,000.00	12.04	48,160.00
9	i.		Pilocarpine - 4% Eye drops NFI	C	5m1	500.00	19.98	9,990.00
92	2.	124600	Chlorphenicamins maleate IP - 4mg Tab.	C - 3	1000	15,000.00	21.26	318,900.00
. 93	3.	124900	Benzyl Benzoate - 25% Emulsion	Ā	450ml	100,000.00	60.93	6,093,000.00 229,448,861.69

SL. NO.	ITEM CODE		CLASSFI- CATION	PACKING	QUANTITY	UNIT RATE	AMOUNT
94.	125400	Chlorhexidine Gluconate - 7.5% liquid	E	1000m1	500.00	460.00	229,448,861.69 230,000:00
95.	126901	Whitfield Dintment Benzioc Acid - 6%	С	15g	50,000.00	6.00	300,000.00
96.		Whitfield Ointment Benzioc Acid - 6%	C	450g	1,000.00	150.00	150,000.00
97.	127300	Zinc Oxide - 2% IP (skin)	С	20g	5,000.00	4.25	21,250.00
98.	127600	Miconazole Nitrate - 2% (skin) 8P	С	5g	100,000.00	4.18	418,000.00
99.	128000	Dusting Powder (absorbable glove powder)	С	450g	2,500.00		10 TO F 00 SALES ST. 100
100.	128301	Gentian Violet topical - 2% VSP	C .	450m1	5,000.00		
101.	128400	Hydrogen Peroxide(unbreakable dark bottle) IP	В	1 lt.	5,000.00		
102.	129600	Pyridine Aldoxine Methiodide Inj.	С	20m1	5,000.00	120.00	600,000. 00
103.	129700	Ether anaesthetic(in ambered coloured bottle)	В	500ml	5,000.00		
104.	131900	Mannitol - 20% infusion	A	100ml	50,000.00	25.71	1,285,714.29
105.	132300	Water for injection (in machine made ampules)	A	5m1	4,500,000.00		3,333,333
106.	143600 -	Ranitidine - 150mg IP Tab.	A	1000	2,000.00	1,886.00	3,772,000.00
107.	143603	Ranitidine - 50mg/2ml Inj.	c	2.00	30,000.00	2.80	84,000.00
108.	144303	Etophylline - 46.5mg with Throphylline 14mg/5ml Syr.	С	100ml	12,500.00	9.91	123,875.00
09.	148100	Dopamine Hydrochloride - 40mg/ml IV BP/USP	C	5m1	5,000.00	22.90	114,500.00
10.	149700	Metoclopramide HCL - 5mg/ml Inj.	С.	2m1	50,000.00	2.10	105,000.00
11.		Metoclopramide HCL - 10mg Tab.	C	100	5,000.00	42.50	213,000.00
12.		Metoclopramide HCL - Smg/Sml	C	30#1	50,000.00	5.79	289,500.00
13.		Diazepan Tab.	A				
4.		Diazepam Inj.					
5.	9	Diazepam Syr.					
16.		Indomethecin - 25mg Cap.	C				
17.		Pethidine - 50mg/ml Inj.	В				
							237,155,700.98

SL. NO.	ITEM CODE	ITEM	 CLASSFI- CATION	PACKING	QUANTITY	UNIT RATE	AMOUNT
118.		Halothane liquid, anaesthetic	A				
119.		Thiopental sodium - 0.5g amp.	A				
120.		Nitrous Oxide liquid, anaesthetic	A			8	
121.		Oxygen cylinder on trolleys with flowmeter 2 mark	A				
122.		Magnesium Sulphate powder - 10g/4ml	C				
123.		Doxycyclin - 100mg Cap.	8				
124.		Co-trimoxazole Tab.	A				
125.		Co-trimoxazole Syr.					
126.		Dapsone - 25mg Tab	8				
127.		Dapsone - 50mg Tab					
128.		Dapsone - 100mg Tab					
129.		Thiacetazone - 150mg Tab.	8				
130.		Diethyl Carbamazine - 50mg Tab.	В				
131.		Diethyl Carbamazine - 125mg/5ml Syr.					

Sno.	Medicine	Dosage Monthly Qty. Required
1	AMIKACIN SULPHATE VIAL	250 MG
2	AMIKACIN SULPHATE VIAL	500 MG
3	AMIKACIN SULPHATE VIAL	100 MG
4	AMINOPHYLLIN AMP.	25ØMG/1ØML
5	AMOXYCILLIN CAP.	25Ø MG
<u>()</u> . Б	AMOXYCILLIN CAP.	500 MG
7	AMPICILLIN CAP.	500 MG
8	AMPICILLIN INJ.	500 MG
9	ATENOLOL TAB	50 MG
16	ATROPINE SULPHATE AMP.	Ø.65MG/1ML
11	BENZYL PENICILLIN VIAL	18 LAC
. 1	CALCIUM GLUCONATE AMP.	18 ML
13	CALCIUM, VITAMIN TAB.	
14	CARBAMAZIPINE	200 MG
15	CEFAZOLIN SODIUM VIAL	1 GM
1.6	CEFAZOLIN SODIUM VIAL	250 MG
17	CEFAZOLIN SODIUM VIAL	500 MG
18	CEFOTAXIME SODIUM VIAL	1 GM
19	CEFOTAXIME SODIUM VIAL	25Ø MG
20	CEFUROXIME INJ.	75Ø MG

Sno.	Medicine	Dosage	Monthly Qty. Required
21	CEPHALEXIN CAP.	25Ø GM	
22	CEPHALEXIN CAP.	500 MG	
23	CIPROFLOXACIN I.V.	100 ML	
24	CIPROFLOXACIN TAB.	500 MG	
25	CIPROFLOXACIN TAB.	75Ø MG	
26	CLOXACILLIN CAP.	25Ø MG	
27	CLOXACILLIN CAP.	500 MG	
28	CLOXACILLIN VIAL	25Ø MG	
29	CLOXACILLIN VIAL	500 MG	
3ø	COTRIMAXAZOLE TAB.	9.8.	
31	COTRIMAXAZOLE TAB.	D.S.	
32	COTRIMOXAZOLE SYP	5Ø ML	
]	CREMAFFIN LIQUID	21Ø ML	
34	DEXAMETHASONE VIAL	8 MG/2 ML	
35	DEXTROPROPOXYPHENE & ACETAMINOPHEN	350-400 MG	
36	DEXTRÔSE	5%, 540 ML	}
37	DEXTROSE 5%, SODIUM CHLORIDE Ø.9%	54ø.ML	
38	DEXTROSE AMP.	50%, 25 ML	
39	DEXTROSE AMP.	25%, 25 ML	
4Ø	DEXTROSE VIAL	50%, 100ML	

Sno.	Medicine	Dosage	Monthly Qty. Required
41.	DIAZEPAM AMP.	10 MG/ML	
42	DIAZEPAM TAB.	5 MG	
43	DICLOFENAC SODIUM GEL	5Ø GMS	2000
44	DICLOFENAC SODIUM TAB.	5Ø MG	
45	DISULFIRAM TAB.	250 MG	
, 46	DOMPERIDONE TAB.	10 MG	
47	DOPAMINE HCL AMP.	200 MG	
48	DOXYCYCLINE CAP.	100 MG	
49	ELECTROLYTE M	540 ML	
50	ELECTROLYTE P	54Ø ML	
51	ENALAPRIL MALEATE TAB	2.5 MG	
52	ENALAPRIL MALEATE TAB	5 MG	
53	ENALAPRIL MALEATE TAB	10 MG	
54	ERYTHROMYCIN SYP.	60 ML	
55	ERYTHROMYCIN TAB.	25Ø MG	
56	ETHAMBUTOL TAB.	800 MG	
57	ETOFYLLINE & THEOPHYLLINE AMP.	2 ML.	
58	ETOFYLLINE & THEOPHYLLINE RETARD TAB.	ЗØØ МG	
59	ETOFYLLINE & THEOPHYLLINE TAB.	100 MG	
68	FRUSEMIDE TAB.	4ø MG	

Sno.	Medicine	Dosage	Monthly Qty. Required
61	FRUSMIDE AMP.	20 MG/2 ML	
62	GENTAMYCIN E DROPS	3 ML	
63	GENTAMYCIN VIAL	80 MG	
64	GLIBENCLAMIDE	5 MG	
6 5	HEPARIN VIAL	5000 IV	
66	HYDROCORTISONE SOD. SUCCINATE VIAL	100 MG	
67	IBUPROFEN	200 MB	
68	IBUPROFEN	400 MG	
69	IMIPRAMINE HCL	25 MG	
70	IMIPRAMINE HCL	75 MG	
71	INSULIN VIAL	401V/ML 10	
72	INTRAVEL SODIUM VIAL	500 MG	
73	LIGNOCAINE INJ.	1%, 30 ML	
74	LIGNOCAINE INJ. VIAL	2%, 30 ML	
75	LIGNOCAINE JELLY	2%, 3Ø GM	
76	LIGNOCAINE WITH ADRENALINE INJ. VIAL	2%, 30 ML	
77	MANNITOL	20%, 350ML	
78	MEBENDAZOLE TAB.	100 MG	
79	MEGLUMINE IOTHALMATE/DIATRIZOATE	76%, 20 ML	
80	METRONIDAZOLE TAB.	200 MG	}

Sno.	Medicine	Dosage Monthly Qty. Required
81	METRONIDAZOLE TAB.	400 MG
82	METRONIDAZOLE VIAL	100 ML
83	MULTIVITAMIN DROPS	15 ML
84	NEUROBION TAB.	
85	NIFEDIPINE CAP.	5 MG
86	NIFEDIPINE CAP.	1Ø MG
B7	NIFEDIPINE TAB.	20 MG
88	NORFLOXACIN CAP.	400 MG
89	PANCURONIUM BROMIDE	4M6/2ML
90	PARACETAMOL AMP.	150 MG/ML
91	PARACETAMOL SYP.	40 ML
92	PARACETAMOL TAB.	500 MG
93	PARACETAMOL/IBUPROFEN	
94	PENTAZOCINE LACTATE AMP.	30 MG/ML
95	PENTOXYFYLLINE TAB.	400 MG
96	POTASSIUM CHLORIDE AMP.	15ØMG/1ØML
97	PREDNISOLONE TAB.	5 MG
98	PROCAINE PENICILLIN VIAL	4 LAC
99	PROSTIGMIN AMP.	Ø.5 MG/ML
100	PYRAZINAMIDE TAB.	500 MG

Sno.	Medicine	Dosage Monthly Qty. Required
101	RANITIDINE HCL AMP.	58 MG
1.02	RANITIDINE HCL TAB.	150 MG
103	RIFAMPICIN CAP.	15Ø MG
104	RIFAMPICIN CAP.	45ø MG
105	RIFAMPICIN CAP.	699 MG
106	RINGER LACTATE	540 ML
107	SALBUTAMOL RESP. SOLN	15 ML
108	SALBUTAMOL TAB.	2 MG
109	SALBUTAMOL TAB.	4 MG
110	SODIUM CHLORIDE SOLN.	540 ML
111	SUCCINYL CHOLINE INJ.	50 MG/10 M
112	TERBUTALINE SULPHATE AMP.	Ø.5MG/1ML
113	VITAMINS AND MINERALS CAP.	

GOVERNMENT MEDICAL STORES, BANGALORE.

Item Name (1)	Formulation (2)	Levels.: (3)
ANTACIDS		
Aluminium Hydroxide 500 mg	Tablets .	1, 2, 3
Magnesium trisilicate 500 mg	Tablets	1, 2, 3
Cisapride 10 mg	Tablets	1, 2, 3
Ranitidine 150 mg IP	Tablets	1, 2, 3
ANTEDOTES		
Atropine Sulphate 0.5 mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
Diptheria Antitoxin (ADS) 10,000 IU/AMP IP	Injection	1, 2
Tetanus Antitoxin 10,000 IU/VIAL IP (100 VIAL IN CBB WITH HCP) BP.	Injection	
Polyvalent Anti-snake venom serum. Lyophylised Ative 0.2% Phenol Before	Injection with distilled water Lyphilisation	1, 2, 3
Pyridine Aldoxime Methiodide (PAM) Antidote for Organo Phosphorus Poisoning (10 AMPS IN CBB)	Injection	1, 2, 3
ANTI-SPASMODICS		
Valathamate Bromide 8mg/ml 1ml AMP (25 AMPS IN CBB WITH HCP.)	Injection	1, 2, 3
Valathamate Bromide 10mg	Tablet	1, 2, 3
Hyoscine Butyl Bromide 20 mg/ml BP. (100 AMPS In CBB WITH HCP)	Injection	1, 2

^{* 1.} District Hospital 2. 30 - 100 beds hospital 3. Primary Health Centre.

Item Name (1)	Formulation (2)	Levels (3)
LAXATIVE		
Paraffin-Liquid (20 BOTS PKG IN CBB WITH HCP) IP/BP	Liquid	1, 2, 3
ANTI-DIARRHOEAL		
Purozolidone 2% Suspension	Suspension	1, 2, 3
Loperamide 2mg	Tablet	1, 2, 3
CARDIAC		
Digoxin 0.25 mg/ml IP (25 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
Digoxin 0.25 mg IP	Tablet	1, 2, 3
Diltiazem 30 mg	Tablet	1, 2
Procainamide 100mg/ml IP	Injection	1,2
Propranolol 40 mg IP	Tablet	1, 2, 3
Verapamil Hydrochloride 40 mg IP	Tablet	1, 2
Verapamil HCL 5mg/2ml IP	Injection	1, 2
Dilsopyramide 150mg	Capsule	1
Nefedipine 10mg	Tablet	1, 2
Nefedipine Retard 20 mg USP	Tablet	1, 2
Dihydrallazine 25mg USP	Tablet	1, 2
Metoprolol 50mg	Tablet	1, 2
ANTI-ANGINAL		
Enalapril Maleate 5mg (Strip)	Tablet	1, 2, 3
Glyceryl Trinitrate Q.5mg IP	Tablet	1, 2, 3
Isosorbide 5 Mono Nitrate 20 mg	Tablet	1, 2, 3

	Item Name (1)	Formulation (2)	Levels (3)
6.2	EMERGENCY		
	Mephentermine 30mg/ml IP.	Injection	1, 2, 3
	Mephentermine 15mg/ml IP.	Injection	1, 2, 3
	Adrenaline 1 In 1000 BP	Injection	1, 2, 3
	Dopamine Hydrochloride 40mg/ml IV BS/USP (25 AMPS IN CBB WITH HCP).	Injection-IV	1, 2, 3
	Bupivacaine Hydrochloride 100mg/ml BP/USP (100 AMPS IN CBB WITH HCP)	Injection	1, 2
6.3	ANTI-HYPERTENSIVE		
	Methyldopa 250mg IP/BP	Tablet	1, 2, 3
	Reserpine 1mg/ml USP. (100 AMPS In CBB WITH HCP)	Injection	1, 2
	Dihydrallazine 25mg USP		
7.	DIURETIC		
	Frusemide 40mg Amiloride HCL 5mg	Tablet	
	Frusemide 20mg/ml IP. (100 AMPS IN CBB WITH HCP)	Injection .	1, 2, 3
	Chlorthalidone 100mg USP	Tablet	1, 2, 3
	Spironolactone 25mg	Tablet	1, 2, 3
X	ANTI-DIABETIC		
	Phenformin HCL 50mg IP (IN TIMED DISINTEGRATION FORM)	Capsule	1, 2, 3
	Insulin 40 IU/ml IP IP(100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
	Insulin-protamin Zinc 40 IU/ml IP (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
	Insulin Zinc Suspension (Lente) 40 IU/ml (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3

	Item Name (1)	Formulation (2)	Levels (3)
	Purified Insulin 40 Units/ml Pork Monocomponent	Injection	1, 2,
	Purified Insulin 40 Units/ml Isophane	Injection	1, 2,
	Purified Insulin 40 Units/ml zinc suspension	Injection	1, 2,
	Purified Insulin 40 Units/ml Mixture of Neutral and Isophane	Injection	1, 2,
	Purified Insulin 40 Units/ml Monocomponent - Human	Injection	1,
	Glybenclamide 5mg IP	Tablet	1, 2, 3
	Tolbutamide 0.5mg IP/BP	Tablet	1, 2, 3
9.	ANTI-VERTIGO		
	Cinnarizine 25mg	Tablet	1
10.	ANTI-COAGULANT		
	Heparin 5000 IU/ML IP (100 VIALS IN CBB WITH HCP)	Injection	1, 2
10.1	COAGULANT		
	Adrenochrome Monosemi Carbazone 0.75mg/ml (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
	Adrenochrome Monosemicarbazone 0.5mg	Tablet	1, 2, 3
11.	ANALGESIC/ANTIPYRETIC		
	Paracetamol 125mg/5ml IP/BP.	Suspension	1, 2, 3
	Paracetamol 500mg BP/IP.	Tablet	1, 2, 3
	Ketorolac Tromethamine 30mg/ml	Injection	1, 2
	Pentazocine Lactate 30mg/ml IP. (25 AMPS IN CBB WITH HCP)	Injection	1, 2, 3

Item Name (1)	Formulation (2)	4	Levels (3)
Buprenorphine HCL 0.3mg/m1	Injection		1, 2
Buprenorphine 0.2mg	Tablet		1
Ketamine 10mg/ml USP	Injection		1, 2
Ketamine 50mg/ml USP	Injection		1, 2
Ibuprofen 400mg BP.	Tablet		1, 2, 3
Ibuprofen 200mg IP	Tablet		1, 2, 3
Diclofenac Sodium 50mg	Tablet		1, 2, 3
Diclofenac Sodium 100mg S.R	Tablet		1, 2, 3
Diclofenac Sodium 25mg/ml	Tablet		1, 2, 3
Diclofenac Sodium 50mg	Injection		1, 2, 3
Diclofenac Diethylammonium EQ to Diclofenac Sodium 1% W/V	GEL GEL		1, 2, 3
Indomethacin 25mg	Tablet		1, 2, 3
DENTAL			
Clove Oil IP (25 BOT IN CBB WITH HCP)	Oil		1, 2, 3
ANTI-EPILEPTIC			,
Phenobarbitone 200mg/1ml IP (100 AMPS in CBB WITH HCP)	Injection		1, 2, 3
Phenobarbitone 30mg IP	Tablet	*	1, 2, 3
Phenobarbitone 60mg IP	Tablet		1, 2, 3
Phenytoin Sodium 100mg/ IP	Tablet		1, 2, 3
Phenytoin Sodium 100mg/2ml	Tablet		1, 2, 3
Carbamazepine 200 MG IP	Tablet		1, 2
Sodium Valproate 200mg	Tablet		1, 2
Trihexy Phenidyl Hydrochloride 2mg USP	Tablet		1

	Item Name (1)	Formulation (2)	Levels (3)
14.	PSYCHOTHERAPEUT IC		
	Chlorpromazine 25mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2
	Chlorpromazine 25 mg/ml IP	Tablet	1, 2, 3
	Chlorpromazine 100mg/ml IP	Tablet	1, 2, 3
	Diazepam 10mg/2ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
	Diazepam 5mg IP	Tablet	1, 2, 3
	Fluzetine HCL 20 mg	Capsule	1, 2
	Amitryptyline Hydrochloride 25mg IP/BP	Tablet	1, 2, 3
	Trifluperazine 5mg IP	Tablet	1, 2
90	Fluphenazine Decanoze 25mg/ml BP(100 VIALS IN CBB WITH HCP)	Injection	1
	Lithium Carbonate 300mg IP	Tablet	1
15.	ANTI-ALLERGIC		
	Promethazine 2.5% W/V USP (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
	Promethazine 25 mg IP	Tablet	1, 2, 3,
	Oxymetazoline 0.05% Aquoves Solution (Nasal Drops)USP (50 BOT IN CBB)sterile	Drops	1, 2, 3
	Hydrocortisone Nasal NFI (50 BOT IN CBB)Sterile	Drops	1, 2
	Chlorpheniramine Maleate 10mg/ml IP	Injection	1, 2, 3
	Chlorpheniramine Maleate 4/mg IP	Tablet	1, 2, 3
	Astemizole 10 mg	Tablet	1, 2,
	Terfenadine 60 mg	Tablet	1
	Embramine 25 mg (PKG IN CBB)	Tablet	1, 2, 3

Item Name (1)	Formulation (2) 	Leve ()
ANTI-GOUT		
Allopurinol 100 mg	Tablet	1, 2
ANAESTHETIC		
Gallamine 40mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2
Suzamethonium Chloride 50mg/ml	Injection	1, 2
Pancuronium Bromide 2mg/ml (100 AMPS IN CBB WITH HCP)	Injection	1, 2
Tubocurarine 10mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2
Neostigmine 0.5 mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2
Ether-Anaesthetic IP (IN AMBER COLOURED BOTTLES)	Liquid	1, 2,
Hyaluronidaze 1500 IU/ml (100 AMPS IN CBB WITH HCP)	Injection	1, 2,
Ethyl Chloride-spray with leak proof valve IP. (25 BOT.IN CBB)	Liquid	1, 2,
Halothane BP	Liquid	1, 2
Lignocaine 1% W/V IP (25 VIAL IN CBB)	Injection	1, 2,
Lignocaine 2% with Adrenaline (25 VIAL IN CBB)	Injection	1, 2,
Lignocaine 2% W/V PLAIN BP. (25 VIAL IN CBB)	Injection	1, 2,
Lignocaine 4% W/V (Topical) (25 BOT. IN CBB) USP.	Liquid	1, 2,
Lignocaine 5% W/V (Heavy) (25 AMPS IN CBB WITH HCP)	Injection	1, 2,
ignocaine Dental cartride (25 AMPS IN CBB WITH HCP)	Injection	. 1

	Item Name (1)	Formulation (2)	(3)
	Lignocaine - Viscous 2% (25 VIAL IN CBB)	Liquid	1
	Lignocaine 2% Jelly USP. (100 tubes in CBB)	Jelly	1, 2, 3
	Thiapentone Sodium 500mg IP (25 AMPS in CBB)	Injection	1, 2
	Thiapentone Sodium 1mg BP (25 AMP/VIAL IN CBB)	Injection	1
18.	ANTI-INFECTIVE		
18.1	ANTI-FUNGAL		
	Hamycin (vaginal) 4LAC IV (Strips)	Ovules	1, 2, 3
	Nystatin 1LAC IV Vaginal IP. (Aluminium Foils in CBB)	Tablet	1, 2
	Griseofulvin 250mg	Tablet	
	Griseofulvin 125mg	Tablet	
	Micenazole Nitrate 2% (Skin) (100 Tubes in CBB) BP/USP.	Ointment	1, 2
	Micenazole Nitrate 2% (EAR)	Drops	1, 2
18.2	ANTI-BACTERIAL	8	
	Tetracycline-Oxy 50mg/ml IP (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
	Tetracycline 250mg IP	Capsule	1, 2, 3
	Cefotazime 1mg	Injection	1, 2
	Doxycycline HCL 100mg	Capsule	1, 2, 3
	Gentamicin 40mg/ml IP/BP. (100 VIAL in CBB)	Injection	1, 2
	Ampicillin 250mg IP/BP (100 VIAL IN CBB)	Injection	1, 2, 3

Item Name (1)	Formulation (2)	(3)
Ampicillin 500mg IP/BP. (100 VIAL in CBB)	Injection	1, 2, 3
Ampicillin 250mg IP/BP	Capsule	1, 2, 3
Amoxicillin 250mg BP/IP.	Capsule	1, 2,
Amoxycillin 500mg	Injection	1, 2,
Norfloxacin 400mg	Tablet	1, 2
Nalidixic Acid 500mg	Tablet	1, 2
Nalidixic Acid 200mg/5ml	Syrup	1, 2
Ciprofloxacin 500mg	Tablet	1, 2
Ciprofloxacin 2mg/ml	Injection	1, 2
Chloramphenicol Succinate 1mg Vial IP. (100 VIAL In CBB)	Injection	1, 2
Chloramphenicol 250mg IP. (100 VIAL In CBB)	Capsule	1, 2, 3
Chloramphenicol 500mg IP (100 VIAL In CBB)	Injection	1, 2, 3
Cloxacillin 500mg/VIAL IP/BP. (100 VIAL in CBB WITH HCP)	Injection	1, 2
Cloxacillin 250mg IP/BP. (Aluminium Foil Packing.)	Capsule	1, 2
Erythromycin estolate 100mg/5ml USP.	Suspension	1, 2, 3
Erythromycin estolate 250mg IP/BSP	Tablet	1, 2, 3
Kanamycin Sulphate 1mg IP (100 VIAL IN CBB WITH HCP)	Injection	.1
Pencillin-Benzyl 5 LACS IV IP (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
Benzyl Pencillin 10LAcs IV IP (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3

	Item Name (1)	Formulation (Z)	Levels (3)
×	Fortified Procaine Pencillin 4LACS IV IP. (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
	Pencillin Procaine 20 LACS IV IP. (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3,
	Benzathene Pencillin 6 LACS IV IP. (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
	Benzathene Pencillin 12 LACS IV IP. (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
	Benzethene Pencillin 24 LACS IV IP. (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
	Sulphadiazine 500mg IP.	Tablet	1, 2, -
	Sulphadimidine 500mg IP.	Tablet	1, 2, 3
	Trimethroprim 80mg 400 mg Sulphamethoxazole, 8p/IP.	Tablet	1, 2, 3
	Trimethoprim 40mg Sulphamethoxazole 200mg	Tablet	1, 2, 3
	Trimethoprim 40mg Sulphamethoxazole 200mg/5ml	Suspension	1, 2, 3
34	Methenamine mandalate 0.5mg USP.	Tablet	1, 2, 3
18.3	ANTI-TB	*	
	Ethambutol 200mg IP	Tablet	1, 2, 3
	Ethambutol 400mg IP	Tablet	1, 2, -
	Ethambutol 600mg IP	Tablet	1, 2, 3
	Ethambutol 800mg IP	Tablet	1, 2, 3
	Isoniazid 100mg IP	Tablet	1, 2, 3
	Isoniazid 300mg IP	Tablet	1, 2, 3
	Rifampicin 150mg IP	Capsule	1, 2, 3

Item Name (1)	Formulation (2)	Levels (3)
Rifampicin 300mg IP	Capsule	1, 2, 3
Rifampicin 450mg IP	Capsule	1, 2, 3
Rifampicin 100mg/ml IP	Syrup	1, 2, 3
Streptomycin 1mg IP (100 VIAL IN CBB WITH HCP).	Injection	1, 2, 3
ANTI-LEPROSY		
Clofazimine 100mg IP.	Capsule	1, 2, -
Clofazimine 50mg	Capsule	1, 2, 3
ANTI-AMOEBIC		
Metronidazole 5MG/ML 100ML in Aqueous Base BP. (100 BOTTLES IN CBB WITH HCP)	Injectione/IV	1, 2
Metronidazole Benzoloxylate Suspension Equivalent to 200mg/5ml Metronidazole	Suspension	1, 2, 3
Metronidazole 200mg BP/IP	Tablet	. 1, 2, 3
Metronidazole 400mg BP/IP	Tablet	1, 2, 3
Trinidazole	Injection	
Tinidazole 300mg	Tablet	1, 2, 3
Tinidazole 500mg	Tablet	1, 2
Metochlorpramide HCL 10mg BP	Tablet	1, 2
Metochlopramide HCL 5mg/5ml	Liquid	1, 2
Metochlopramide HCL 5mg/ml (25 AMPS IN CBB WITH HCP)	Injection	1, 2,
Domperidon 10mg	Tablet	1

(£) Slaval	Formulation (2)	Item Vame (1)
		JAIRAJAM-IINA 6.
2 'Z 'I	noitzațal	Chloroquine 250mg/AMP IP/BP. (900 AMPS in CBB WITH HCP)
£ 'Z 'I	jaldaT	Chloroquine 250mg BP.
£ *Z *I	taldaT	.98 pm2.7 aniupamin9
ZZt	ja[daT	4I pm2.S aniupamin9
1, 2, 5	feldsT	Smdč animertaminy9 Pyrimethamine J5mg
		T ANTI-FILARIAL
2 °Z °I	j∋[d¤T	Diethyl carbanmazine Citrate SOmg IP/BP/USP.
2 'Z 'I	feldsT	Diethyl carbamazine Citrate 100mg IP/Bp/usp.
		OBSIEIRIC
2 'Z 'I	noitzainI	Methyl Ergometrine O.Zmg/ml IP (100 AMPS IN CBB WITH HCP)
£ "Z "I	təldsT	91 pm251.0 anintamopn3 [vdfaM
Į.	meanJ	Dienostrol Cream (Cream Base) (O.01% W/W with Applicator USP. SS Tubes in CBB)
2 'Z 'I	noitaeinI	Oxytocin 5 lV/ml IP, (100 AMPS in CBB WITH HCP)
		HORMONES
Z 'I	Injection	Hydroxy progesterone 250mg/ml USP
I' Z' 1	noitaeinI	Dexamethasone 4mg/ml IP. (100 ViALS IN CBB WITH HCP)
τ	noitoainI	Trismcinolone Acetonide IM 40mg/ml USP. (Cortico Steroids)

Item Name (1)	Formulation (Z)	Levels (3)
Trimacinolone Acetonoide 10mg/ml USp (Intra Articular Cortico Steroid)	Injection	1
Prednisalone 5mg IP	Tablet	1, 2, 3
Prednisalone 10mg IP	Tablet	1, 2
Prednisalone 20mg IP	Tablet	1
Thyroxine Sodium 100mg IP	Tablet	1, 2, 3
Stilbesterol Diphosphate 100mg	Capsule	1, 2
Stilbesterol Diphosphate 250mg	Injection	1, 2
VACCINES		
Tetanus Toxoid 10 doses IP/BP (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
SERA		
Anti "A" Sera IP	Sera	1, 2, 3
Anti "B" Sera IP	Sera	1, 2, 3
Anti "AB" Sera	Sera	1, 2, 3
Anti "D" Sera (monoclonal)	Sera	1, 2, 3
Coombs Sera	Sera	1, 2, 3
Australia Antigen Kits for Elisa method	Antigen	1
Australia Antigen Kits for Slide Test	Antigen	1, 2, 3
VDRL Kits of Slide Test	Diagnosts	1, 2, 3
ANTI-HELMINTHICS		
Mexendazole 100mg	Tablet	
Me endazole 100mg/5ml	Suspension	

	Item Name	Formulation (2)	Levels (3)
24.	ANTI-CANCER		
	Cyclophosphomide 50mg/VIAL	Injection	1
	Cyclophosphomide 100mg/VIAL	Injection	1
	Cyclophosphomide 200 mg/VIAL	Injection	1
	Cyclophosphomide 500mg/VIAL	Injection	1
	Cyclophosphomide 50mg IP	Tablet	1
	Cyclophosphomide 100mg	Tablet	1
	Azathioprine 25 mg	Tablet	1
	Mercaptopurine 50mg BP.	Tablet	i
	Vincristine Sulphate 1mg/VIAL	Injection	1
	Doxurubicin HCL 10mg USP.	Injection	1
	Mitomycin C 2mg/ VIAL USP.	Injection	1
	Mitomycin c 10mg/ VIAL USP.	Injection	1
	Asperginase 1000 KU/VIAL Containing Asperginase 10000 KU/VIAL	Injection	1
	Bleomycin 15mg Usp.	Injection	1
	Actinomycin D (containing Actinomycin 500 mcg and Mannitol 20mg USP.	Injection	1
	Cisplatinum 10mg/VIA1	Injection	1
	Flurouracil 250gm	Capsule.	1
	Methotrexate 50mg/2ml BP.	Injection	1
	Methotrexate 2.5mg Tabs. BP.	Tablets	1
	Methotrexate 5mg/ml Intrethecal	Injection	1
	Flurouracil 50mg/ml IP/USP.	Injection	1
	5-Flurouracil 250mg/5ml/ USP.	Injection	1

Item Name (1)	Formulation (2)	Level (3)
Chlorambucil 2mg BP.	Tablet	1
Chlorambucil 5mg BP.	Tablet	1
Melphalan 2mg BP.	Tablet	1
Melphalan 5mg BP.	Tablet	1
Thio-Tepa 15mg USP.	Injection	1
Thioguanine 40mg BP.	Tablet	1
Calcium Leucovorin 3 mg/ml. USP.	Injection	1
Calcium Leucovorin 50 mg	Tablet	1
Procarbazine 50 mg	Capsule	1
Hydroxy Urea 500 mg	Capsule	1
Tomoxifen 10 mg	Tablet	1
HOEMOPOIETIC		
Ferrous Sulphate 200mg IP Sugar coated	Tablet	1, 2,
Ferrous Fumarate 200mg IP	Tablet	1, 2,
Iron-dextran 50mg/ml Im/IV (100 AMPS in CBB WITH HCP) IP	Injection	1, 2,
Iron-dextran 50mg/ml 10ml +1ml dual Pack	Injection	1, 2,
<u>VITAMINS</u> AND MINERALS		
Calcium Gluconate 10% IV IP (50 AMPS IN CBB WITH HCP)	Injection	1, 2,
Calcium Gluconate 500mg IP/BP.	Tablet	1, 2,
Vitamin-K 10mg/ml IP. (100 AMPS IN CBB WITH HCP)	Injection	1, 2,
Folic Acid 5mg BP	Tablet	1, 2,

	Item Name (1)	Formulation (2)	(3)
	Vitamin-A in Aqueous Base - 50,000 IU/ml USP. (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
	Vitamin A 50,000 IU.	Tablet	1, 2, 3
	Vitamin A 50,000 IU/ml in Aqueous Base	Drops	1, 2, 3
	Vitamin-B Complex NFI (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
	Vitamin B Complex-Therapeutic NFI	Tablet	1, 2, 3
	Vitamin-B Complex Therapeutic NFI	Drops	1, 2, 3
	Vitamin-B1-33mg B6-33mg B12-33.3mcg/ml (50 AMPS IN CBB WITH HCP)	Injection	1, 2
	Riboflavin Vitamin B2 20mg	Tablet	1, 2
	Vitamin C 500mg/5ml NFI (50 AMPS IN CBB WITH HCP)	Injection	1, 2
	Vitamin C 100mg/IP.	Tablet	1, 2, 3
27.	IV FLUIDS		
	Dextrose 5% IV IP (Packing in CBB)	Injection-IV	1, 2, 3
	Dextrose 10%IV IP (Packing in CBB)	Injection-IV	1, 2, 3
	Dextrose 25%IV IP (50 AMPS IN CBB WITH HCP)	Injection-IV	1, 2
	Dextrose 50%IV IP (50 AMPS IN CBB WITH HCP)	Injection-IV	1, 2
	Electrolyte Gastric Replacement Solution with 5% Dextrose	Injection-IV	1, 2
	Electrolyte Maintenance Solution with 5% Dextrose	Injection-IV	1, 2
	Electrolyte Maintenance Paediatric Solution with 5% Dextrose	Injection-IV	1, 2

Item Name (1)	Formulation (2)	Levels (3)
Potassium Chloride 15% W/V USP/BP	Injection	1, 2
Sodium Bicarbonate 7.5% W/V	Injection	1, 2, 3
Sodium Chloride 0.9% IP	Injection-IV	1, 2, 3
Normal Baline IP, 25 wl	Injection-IV	1, 2, 3
Sodium Chloride with Dextrose	Injection-IV	1, 2, 3
Sodium Lactate-Compound (Molar-Lactate) IP.	Injection-IV	1, 2, 3
Dextran 40 IN Normal Saline IP.	Injection-IV	1, 2
Plasma Volume Substitute Containing 3.5% degraded Gelatine	Injection-IV	1, 2
Low Molecular WT Destran 540ml	Injection-IV	1, 2
Mannitol 10% IV IP.	Injection-IV	1, 2, 3
Mannitol 10% IV IP	Injection-IV	1, 2, 3
Mannitol 20% IV IP.	Injection-IV	1, 2, 3
Water for Injection (in Machine made AMPS) IP.	Injection	1, 2, 3
ANTI-ASTHMATIC		
Salbutamol 4mg IP.	Tablet	1, 2, 3
Salbutamol 2mg/5ml	Syrup	1, 2, 3
Salbutamol Sulphate 100mcg/mt (200 Metered Doses)	Inhaler	1, 2
Terbutalin 1.5mg/ml	Syrup	1, 2, 3
Terbutalin 2.5mg/ml USP.	Tablet	1, 2, 3
Terbutalin 0.5mg/ml (50 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
Aminophylline 2.5% IV IP. (50 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
Theophylline 100mg IP/BP.	Tablet	1, 2, 3

28.

Item Name (1)	Formulation (2)	Levels (3)
SKIN		
Calamine Lotion BP.	Liquid	1, 2, 3
Glycerin IP.	Liquid	1, 2
Benzyl Benzoate Application 25%	Emulsion	1, 2, 3
Gamma Benzene Hexachloride 1%	Liquid	1, 2, 3
Certrimide Cream BP.	Ointment	1, 2, 3
Silver Sulphadiazine 1%	Cream	1, 2, 3
Betamethasone 0.1% (Skin)	Dintment	1, 2, 3
Betamethasone Valerate 0.12% with chinoform 3% Base.	Cream .	1, 2
Betamethansone with Neomycin Sulphate	Cream	1, 2
Dexamethasone Acetate 0.1% and Framycetin Sulphate cream 1%	Cream	1, 2
Clobetasol Butyrate	Dintment	1, 2
litrofurazone 0.2% water soluble Base (skin) USP.	Cream	1, 2, 3
ovidone iodine USP 5% W/W (0.5% in cream base)	Cream	1, 2
ovidone Lotion USP 5%	Lotion	1, 2, 3
araffin White Soft IP. Ointment Base	Ointment	1, 2, 3
odophylum Resin IP.	Powder	1, 2
otassium Permanganate IP. (In Amber coloured bottle)	Crystals	1, 2, 3
soralen 5mg	Tablet	1, 2
hitField Dintment with Benzoic Acid 6%	Ointment	1, 2, 3
ulphur Skin Ointment 10% IP.	Ointment	1, 2, 3

	Item Name	Formulation (2)	Levels (3)
	Coalter ointment USP.	Ointment	1, 2
	Turpentine Liniment IP.	Liquid	1, 2, 3
	Zinc Oxide (skin) 15% IP.	Ointment	1, 2, 3
	Benzoin CO TR IP.	Liquid	1, 2, 3
	Gentian Violet 2% USP. Topical	Solution	1, 2, 3
	Gentian Violet 1% USP. Topical	Solution	1, 2, 3
	Hydrogen Peroxide (in unbreakable dark Bottle) IP.	Liquid	1, 2, 3
	Iodine-Weak Solution TR-IP	Liquid	1, 2, 3
	Mythyl Salicylate IP. 4% W/W Mephensin IP %% Iodine IOP 5% W/W	Ointment	1, 2, 3
	Polymyxin B Sulphate 5000 Unit with Bacitracin 400 units and Neomycine 3400 Units/gm IP/BP.	Powder	1, 2, 3
	Framycetin Sulphate 1% W/W IP.	Ointment	1, 2, 3
30.	EYE/EAR		
	Chloraphenical 5% (Ear) BP.	Drops	1, 2, 3
	Sulphacetamide 20% EAR BP	Drops	1, 2, 3
	Chloramphenicol 1% (EYE) IP/BP	Ointment	1, 2, 3
	Chloramphenicol o.5% EYE DROPS	Drops	1, 2, 3
	Framycetin Sulphate IP 5MG	Drops	1, 2, 3
	Dexamethasone Sod. Meta sulphobenzoate 0.116% W/V Framycetin	Drops	1
	Chloraphenical Applicaps 1% (EYE) Sterile	Ointment	1, 2, 3
	Gentamicin 0.3% W/V USP	Drops	1, 2, 3
	Gentamicin 1% (EYE) USP	Dintment	1, 2, 3
		*	

Item Name (1)	Formulation (2)	Level (3)
Sulphacetamide 10% (EYE) USP	Drops	1, 2,
Phenyl Ephrine HCL 5%	Drops	1, 2
Phenyl Ephrine HCL 10%	Drops	1, 2
Tetracyclin 1% (EYE) USP	Ointment	i, 2,
Fluorescin Corneal stain strips (OPTH) USP.	OPTH Strips	1
Homotropine Hydrochloride 2% Eye drops USF. Sterile	Eye Drops	1, 2
Fluorescein Sodium 10% USP.	Injection	1
Cyclopentolate HCL 1% Eye BF.	Eye Drops	1, 2
Betamethasone 0.1% with Neomycine (eye) Sterile	Ointment	1, 2
Betamethasone 0.1% with Neomycine 0.5% (eye) NFI Sterile.	Drops	1, 2
Philocarpine 2% (eye) NFI/BP.Sterile	Drops	1, 2
Philocarpine 4% (eye) BP.Sterile	Drops	1, 2
Atropine 1% (eye) IP.	Ointment	1, 2

II. ACCESSORIES

S1. No.	Item Name (1)	Formulation (2)	Levels (3)
01.	Cotton wool, Absorbable IP, 500g.Nett	Dressing	1, 2, 3
02.	Ster&lised medicated paraffin gauze containing Framycetin 500 Units/gm and Neomycin Sulphate IP 0.35% W/W 10cms X 10cms.	Dressing	1, 2, 3
03.	Gelatin Sponge-Absorbable 10mm X 10mm X 10mm (Dental) USP Packing in CBB.	Dressing	1, 2
04.	Gelatin Sponge-Absorbable		*
	70mm X 50mm X 1mm (nasal) . Packing in CBB	Dressing	1, 2
05.	Gelatin Sponge- Absorbable 80mm X 25mm X 7mm (Gynec.)USP Packing in CBB	Dressing	1, 2
06.	Gelatin Sponge-Absorbable 70mm X 50 mm (general) USP Packing in CBB	Dressing	1, 2
07.	Plaster-Adhesive Zinc Oxide 20% - 10cm X 10M USP.	Dressing	1, 2, 3
08.	Transparent Hypo Allergic Plaster having Bi-directional tear, size 5cms X 9.14MTS	Dressing	1, 2
09.	Porous elastic Adhesive Bandage 8cms X 4MTS	Dressing	1, 2
10.	Transparent Hypo Allergic		
	Plaster having Bi-directional tear size 7.5cms X 9.14MTS	Dressing	1, 2
11.	Plaster of Paris IP.	Powder	1, 2, 3
12.	Drip set-polythene for IV administration- sterlised with Gamma irradiation - Batch certificate from B.A.R.C./K.M.I.O.	Appliance	1, 2, 3
13.	Disposable Blood collection bags (CPDA Solution) 350 ml capacity	Bags	1, 2

51. No.	Item Name (1)	Formulation (2)	Levels (3)
14.	Disposable Blood collection double bags (CPDA Solution) 350 ml capacity	Bags	1, 2
15.	Disposable Blood Lancets	Lancet	1, 2,
16.	Disposable Blood Drawing Sets	Drawing Set	1, 2,
17.	Hypodermic Needles SS ISI 1.5" X 18	Appliance	1, 2,
18.	Hypodermic Needles SS ISI 1.5" X 20	Appliance	1, 2,
19.	Hypodermic Needles SS ISI 1.5" X 22	Appliance	1, 2,
20.	Hypodermic Needles SS ISI 1.5" X 24	Appliance	1, 2,
21.	Hypodermic Needles SS ISI 1" X 18	Appliance	1, 2,
22.	Hypodermic Needles SS ISI 1" X 20	Appliance	1, 2,
23.	Hypodermic Needles S.S. ISI 1" X 22	Appliance	1, 2,
24.	Hypodermic Needles S.S.ISI 1" X 24	Appliance	1, 2,
25.	Disposable Needles 20G X 1"	Appliance	1, 2
26.	Disposable Needles 22 G X 1"	Appliance	1, 2
27.	Disposable Needles 24 G X 1"	Appliance	1, 2,
28.	Disposable Needles 26G X 1"	Appliance	1, 2,
29.	Syringe 2CC All Glass Interchangeable ISI.	Syringe	1, 2,
30.	Disposable Syringe 2.5ml	Syringe	1, 2
31.	Syringe 5CC All Glass Interchangeable ISI	Syringe	1, 2,
32.	Disposable Syringe	Syringe	1, 2
33.	Syringe 10CC all glass Interchangeable ISI	Syringe	1, 2,
34.	Disposable Syringe 10 ml	Syringe	1, 2,
35.	Syringe 2000 all glass Interchangeable ISI	Syringe	1, 2,

S1. No.		Formulation (2)	Levels (3)
36.	Clinical Thermometer Centigrade ISI Packing in plastic tube with cap.	Appliance	1, 2, 3
37.	Rectal Thermometer Centigrade Packing in plastic tube with cap.	Appliance	1, 2, 3
38.	Gloves Surgical 6 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
39.	Disposable Gloves 6 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
40.	Gloves Surgical 6.5 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
41.	Disposable Gloves 6.5 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
42.	Gloves Surgical 7 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
43.	Disposable Gloves 7 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
44.	Gloves Surgical 7.5 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
45.	Examination Gloves Size 6 Not for surgical procedures 25 pairs in plastic bag in carton	Appliance	1, 2, 3
46.	Examination Gloves Size 6.5 Not for surgical procedures 25 pairs in plastic bag in carton	Appliance	1, 2, 3
47.	Examination Gloves Size 7.5 Not for surgical procedures 25 pairs in plastic bag in carton	Appliance	1, 2, 3
48.	Disposable Gloves size 7.5 ISI Each pair in plastic cover and 25 pairs in CBB	Appliance	1, 2

S1. No.	Item Name (1)	Formulation (2)	(3)
49.	Sheeting waterproof mackintosh 36" width	Sheeting	1, 2, 3
50.	Acid Benzioc Powder IP 450gm Bleaching Powder GR 2 33% Chlorine ISI (Laminated HDPE Packing)	Powder	1, 2, 3
51.	Chlorine tablet 2.5gm Containing 300mg Chlorine	Tablet	1, 2, 3
52.	Denture Base Material Heat curing ISI ADAS	Powder	1
53.	Denture Base Material Cold curing ISI ADAS	Powder	1
54.	Denture Impression Material ISI ADAS	Powder	1
55.	Gum Paint-TRS Aconite, Belladonna, Iodimitis, Benzo in Methopip	Gum Paint	1
56.	Mercury Ip	Liquid	1
57.	Silicate Cement ISI/ADAS Glass ionomer filling material powder 15 gms and Liquid 10 gms	Cement	1
58.	Dental Prophylaxis paste	Paste	1
59.	Sterile Absorbant Dental Points	Dental-point	1
60.	Dental Restorative Universal and Catalyst. Catalyst Paste-1, Universal Paste-1, Mixing stick-35	Appliance	1
61.	Dental Restorative Acid Etch Bond Technique catalyst and Universal Resins Etching liquid 1 Brush Handle 100 disposable brushes and 100 disposable		
6	mixing wells.	Appliance	1
62.	Dental Floss	String	1
63.	Dental Stone Plaster ADAS	Powder	1
64.	Mercury triple Distilles for Dental Use ISI/ADAS	Mercury	1

51. No.	Item Name (1)	(2)	Levels (3)
65.	Silver Amalgum Alloy with 60% Silver ISI	Powder	* 1
66.	Orthodontic Wire Dentauram 0.6 0.7, 0.8, and 0.9 mm gauge. Plastic packing in CBB	Wire	1
67.	Arch Wire for Orthodontic purpose gauge 0.014, 0.016, 0.018 & 0.20. Plastic packing in CBB	Wire	1
68.	Full Teeth sets Complete Square Mould, Tapering Mould avoid Mould (shade stellon 1, 2, 3, 4, 5, or equivalent	Mould	1
69.	Anterior Teeth Sets (lower and Upper Square and Tapering Mould Stellan Shades 1, 2, 3, 4, 5, or equivalent	Teeth	1
70.	Posterior Teeth sets (Different Shades and Sizes)	Teeth	1
71.	Calcium Hydroxide - Dycal catalyst 13gm Base 11gm 1 PAD in CBB Packing	Paste	1
72.	Dental Carving wax Block 4cms X 1.5cms X 1.5cms	Wax	1
73.	Pumice Powder for Polishing	Powder	1
74.	Zinc Oxide euginol Impression Paste. Zinc Oxide Paste 125gm Euginol Paste 85gms Mixing Pad 1. ISI.	Paste	1
75.	Intra Dental Wire Soft 16	Wire	1
76.	Zinc Oxiphosphate Cement ISI/ADAS	Cement	1
77.	Dextrose Anhydrous (injectable Grade) IP/BP free from physical impurities. (PKD. in Double Poly B AG in KEG with Painted Label on KEG.	Powder	1,:
78.	Mannitol Powder for Injection in Airtight Polybag IP/USP/BP Double Polybag 0.2mm thickness, sealed, painted label to be affixed with batch No.	Powder	1,

51. No.	Item Name (1)	Formulation (2)	Levels (3)
79.	Sodium chloride (INJ Grade) IP free from physical impurities PKD in airtight 0.2mm Polybag sealed in carton.	Powder	1, 2
80.	Sodium Citrate IP. (INJ Grade) PKD in Ploybag in Plastic Bottles.	Powder	1, 2
81.	Bottle-Approx 72 mm Dia 165mm HT. 38.5mm Screw neck USP Type 1.	Glass Bottle	1, 2
82.	Bottle-Approx 79.5mm Dia 210mm HT 38.5mm screw neck USP Type1.25 Bottle in CBB with HCP. Overflow capacity 665ml USP.	Glass Bottle	1, 2
83.	Cap Screw Aluminium with Centre open for manual srew sealing screw (Neck Bottles to fixing the rubber plugs USP (Packing in CBB)	Closure Screw	1, 2
84.	Foil Seals Aluminium Assorted colours for fixing and sealing over both screw type and sealing Type Aluminium Caps (Packing in CBB with Embosemen T "Government of Karnataka".	Closure	1, 2
85,	Rubber Plugs for 540ml USP Type-1 Bottles of smooth surface alround with one hole for infusion needle and other for air inlet on top ISI packing in polybag in corrugated CBB.	Closure	1, 2
86.	Sodium Iodide 1% Solution W/V (Disinfectant and Bactericidal Packed in CBB)	Liquid	
87.	IV Cannula Set (made of Teflon) Hinge Type biway connection at the top. Sizes 14, 16, 18, 20, 22 Gammairradiation certificate from B.A.R.C./K.M.I.O. Packing in CBB.	Appliance	
88.	Autoclave Indicator Labels 2.5cms X 5cms	Labels	

51. No.	Item Name (1)			Levels (3)
89.	Skin Contact Jelly Ultra Sound		Jelly	1, 2
90.	Sterilised Surgical Suture Plain Catgut 2/0 USP.		Suture	1, 2
91.	Sterilised Surgical Suture Plain Catgut 1/0 USP.		Suture	1, 2
92.	Sterilised Surgical Suture Plain Catgut 1 USP.		Suture	1, 2
93.	Sterilised Surgical Suture Plain Catgut 2 USP.		Suture	1, 2
94.	Sterilised Surgical Suture Plain Catgut 3 USP.	4	Suture	1, 2
95.	Sterilised Surgical Suture Chromic Catgut 3/0 USP.		Suture	1, 2
96.	Sterilised Surgical Suture Chromic Catgut 2/0 USP.		Suture	1, 2
97.	Sterilised Surgical Suture Chromic Catgut 1/0 USP.		Suture	1, 2
98.	Sterilised Surgical Suture Chromic Catgut 1 USP.		Suture	1, 2
99.	Sterilised Surgical Suture Chromic Catgut 2 USP.		Suture	1, 2
100.	Sterilised Surgical Suture Straight Needle Chromic 2/0 Round Body 60mm.	USP.	Suture +Needle	1, 2
101.	Sterilised Surgical Suture Straight Needle Chromic 2/0 Round Body 45mm USP.		Suture + Needle	1, 2
102.	Sterilised Surgical Suture Straight Needle Chromic 2/0 Round Body 60mm USP.		Suture + Needle	1, 2
103.	Sterilised Surgical Suture Straight Needle Chromic 1/0 Round Body 45mm USP.		Suture + Needle	1, 2

S1.	Item Name (1)	Formulation (2)	(3)
	Sterilised Surgical Suture Curved Needle Chromic 4/0 Round Body 16mm USP.	Suture + Needle	1, 2
105.	Sterilised Surgical Suture Curved Needle Chromic 3/0 Round Body 22mm USP.	Suture + Needle	1, 2
106.	Sterilised Surgical Suture Curved Needle Chromic 2/0 Round Body 65mm USP.	Suture + Needle	1, 2
107.	Sterilised Surgical Suture Curved Needle Chromic 2/0 Round Body 45mm USP.	Suture + Needle	1, 2
108.	Sterilised Surgical Suture Curved Needle Chromic 2/0 Round Body 30mm USP.	Suture + Needle	1, 2
109.	Sterilised Surgical Suture Curved Needle Chromic 1/0 Round Body 45mm USP.	Suture + Needle	1, 2
110.	Sterilised Surgical Suture Curved Needle Chromic 1/0 Round Body 30mm USP.	Suture + Needle	1, 2
111.	Sterilised Surgical Suture Curved Needle Chromic 1 Round Body 45mm USP.	Suture + Needle	1, 2
112.	Sterilised Surgical Suture Curved Cutting Needle Chromic 1 60mm USP.	Suture + Needle	1, 2
113.	Sterilised Surgical Suture Curved Cutting Needle Plain 4/0 16mm USP.	Suture + Needle	1, 2
114.	Sterilised Surgical Suture Curved Cutting Needle Plain 3/0 16mm USP.	Suture + Needle	1, 2
115.	Sterilised Surgical Suture Curved Rev. Cutting Needle Chromic 6/0 Round Body 8mm USP.	Suture + Needle	1, 2

S1.	Item Name (1)	Formulation (2)	Levels (3)
	Sterilised Surgical Suture Curved Blunt Needle Chromic 1 Round Body 63mm USP.	Suture + Needle	
117.	Sterilised Surgical Suture 1/2 Circle Chromic 1 Heavy 45mm Needle USP.	Suture + Needle	1, 2
118.	Sterilised Surgical Suture 1/2 Circle Trocar Point 1 40mm Needle USP.	Suture + Needle	1, 2
119.	Sterilised Surgical Suture 1/2 Circle Trocar Point Cutting 2 Chromic 40mm Heavy Needle USP.	Suture + Needle	1, 2
120.	Sterilised Surgical Suture 1/2 Circle Round Body 1/0 Chromic 40mm Heavy Needle USP.	Suture + Needle	1, 2
121.	Sterilised Surgical Suture 1/2 Circle Round Body 3/0 Chromic 25mm Needle USP.	Suture + Needle	1, 2
122.	Sterilised Surgical Suture 1/2 Circle Round Body 2/0 Chromic 45mm Needle USP.	Suture + Needle	1, 2
123.	Sterilised Surgical Suture 1/2 Circle Round Body 1/0 Chromic 45mm Needle USP.	Suture + Needle	1, 2
124.	Sterilised Surgical Suture 1/2 Circle Round Body 1/0 Chromic 30mm USP.	Suture + Needle	1, 2
125.	Sterilised Surgical Suture 1/2 Circle Mayo's Chromic 1/0 45mm Heavy Needle USP.	Suture + Needle	1, 2
126.	Sterilised Surgical Suture 1/2 Circle Reverse Cutting Chromic 50mm Needle USP.	Suture + Needle	1, 2
127.	Sterilised Surgical Suture 1/2 Circle Reverse Cutting and Round Body 2/0 Chromic 36mm Needle USP.	Suture + Needle	1, 2

S1.	Item Name (1)	Formulation (7)	Levels
128.	Sterilised Surgical Suture 5/8 Circle Round Body Chromic 1/0 55mm Needle USP.	Suture + Needle	1, 2
129.	Sterilised Surgical Suture 3/8 Circle Round Body Chromic 1/0 45mm Needle USP.	Suture + Needle	i, 2
130.	Sterilised Surgical Suture 8/0 60mm Curved Micro Point USP. Round Body 45mm USP.	Suture + Needle	1
131.	Black Virgin Silk, Spatulated 8/0 60mm Curved Micro Point Double Needle USP.	Suture + Needle	1
132.	Black Virgin Slik, Spatulated 8/0 60mm Curved Micro Point Double Needle USP.	Suture + Needle	1
133.	Mersilk Black Braided Silk 4/0 16mm Curved Round Body Needle USP.	Suture + Needle	1, 2
134.	Virgin Black Braided Silk 8/0 8mm 1/2 Circle Reverse Cutting Micro Point Needle USP.	Suture + Needle	1, 2
135.	Mersilk Blck Braided Silk 6/0 8mm 1/4 Circle Spatulated Micro Point Needle USP.	Suture + Needle	1, 2
136.	Mersilk Black Braided Silk 4/0 20mm 1/2 Circle Round Body Needle USP.	Suture + Needle	1, 2
	Mersilk Black Braided Silk 3/0 25mm 1/2 Circle Round Body Needle USP.	Suture + Needle	1, 2
138.	Mersilk Black Braided Silk 2/0 30mm 1/2 Circle Round Body Needle USP.	Suture + Needle	1, 2
139.	Mersilk Black Braided Silk 1/0 30mm 1/2 Circle Round Body Needle USP.	Suture + Needle	1, 2
140.	Mersilk Black Braided Silk 2/0 50mm 1/2 Straight Round Body Needle USP.		
		Suture + Needle	1, 2

No	Item Name (1)	Formulation (2)	Levels (3)
	Green Size 2, Coated Braided Polyester with 45mm Heavy Tapercut Needle USP.	Suture + Needle	1, 2
142.	Sutupak Pre Cut Suture in Sterile over wrap packs 2/0 X 2 X 75cms USP.	Suture + Needle	1, 2
143.	Sutupak Pre Cut Suture in Sterile over wrap packs 1 X 2 X 75cms USP.	Suture + Needle	1, 2
144.	Sutupak Pre Cut Suture in Sterile over wrap packs 3/0 10 X 75cms USP.	Suture + Needle	1, 2
145.	Braided Mersilelne Suture 5/0 8mm 1/4 Circle micro Point Spatulated Double Needle USP.	Suture + Needle	1, 2
146.	Braided Coated Mersilelne Suture 4/0 8mm 1/4 Circle Micro Point Spatulated Needle USP.	Suture + Needle	1, 2
147.	Braided mersilelne Suture 2/0 30mm 1/2 Circle Round Body Needle USP.	Suture + Needle	1, 2
148.	Synthetic Absorbable Suture 4/0 16mm 1/2 Circle Tapercut Heavy Needle USP.	Suture + Needle	1, 2
149.	Synthetic Absorbable Suture 2/0 40mm 1/2 Circle Round Body Needle USP.	Suture + Needle	1, 2
150.	Synthetic Absorbable Suture 1/O 40mm 1/2 Circle Round Body Needle USP.	Suture + Needle	1, 2
151.	Synthetic Absorbable Suture 1 40mm 1/2 Circle Round Body Heavy Needle USP.	Suture + Needle	1, 2
152.	Synthetic Absorbable Suture 3/0 36mm 1/2 Circle Taper Cut Needle USP.	Suture + Needle	1, 2
	Synthetic Absorbable Suture 3/0 17mm 1/2 Circle Taper Cut Needle USP.	Suture + Needle	1, 2

51.	Item Name	Formulation	Leve
No.		-	(h)
100 100 100 100 100 100 100 100 100 100	Synthetic Absorbable Suture 1/0 40mm 1/2 Circle Taper Cut Needle USP.	Suture + Needle	**************************************
ນ ເຄ	Synthetic Absorbable Suture Violet Size 1 90cms 1/2 Circle, 40mm Tapercut Heavy Needle USP.	Suture + Needle	and a
.56.	Synthetic Absorbable Suture Violet Size 1 90 cms 1/2 Circle, Reverse Cutting 45mm Heavy Needle USP,	Suture + Needle	E.
157.	Synthetic Absorbable Suture Violet Size 4/0 70cms1/2 Circle Round Body 16mm Needle USP.	Suture + Needle	: 4 F)
158,	Synthetic Absorbable Suture Violet Size 5/0 45cms 1/2 Circle Round Body 16mm Double Needle USP.	Suture + Needle	[-1
159.	Synthetic Absorbable Suture Undyed Braided Size 2/0 76cms Straight Cutting 60mm Needle USP.	Suture + Needle	P
.091	Monofilament Nylon Suture 10/0 6mm curved Spatulated Micro Point Needle USP.	Suture + Needle	Y-1
161.	Monofilament Nvlon Suture 10/0 6mm 3/8 Circle Spatulated Micro Point Double Needle USP.	Suture + Needle	****
162.	Monofilament Nylon Suture 8/0 8mm Curved Reverse cutting Micro Point Needle USP.	Suture + Needle	***
163.	Monofilament Polymade Suture 570 12mm Curved Reverse Cutting Needle USP.	Suture + Needle	fy - :
164.	Monofilament Polymade Suture 270 45mm Curved Reverse Cutting Needle USP.	Suture + Needle	
65.	Monofilament Polymade Suture 3/0 Zómm Curved Cutting USF.	Suture + Meedle	[s
166.	Monofilament Polymade Suture 170 40mm 1/2 Circle Round Body (Loop Suture) Needle USP.	Suture + Needle	Pr

S1. No.	Item Name (1)	Formulation (2)	Levels (3)
167	Monofilament Polymade Suture 1 50mm 1/2 Circle Round Body Heavy		
	(Loop Suture) Needle USP.	Suture + Needle	1, 2
168.	Monofilament Polymade Suture 1/0 40mm 1/2 Circle Heavy Needle USP.	Suture + Needle	1, 2
169.	Monofilament Polymade Suture 1 40mm 1/2 Circle Heavy Needle USP.	Suture + Needle	1, 2
170.	Monofilament Polymade Black Size 1. 100cms 1/2 Circle Reverse, Cutting,		
	500mm Heavy Needle USP.	Suture + Needle	1, 2
7.1.	Polypropylene Mesh Size 6cm * 11cm	Mesh	1, 2
72,	Polypropylene Mesh Size 15cm * 15cm	Mesh	1, 2
73.	Polypropylene Mesh Size 30cm * 30cm	Mesh	1
74.	Monofilament Prolene Suture 6/0 13mm Curved Round Body Double Needle USP.	Suture + Needle	1, 2
75,	Monofilament Prolene Suture		7.
	3/0 22mm curved Cutting Needle USP.	Suture + Needle	1, 2
76.	Monofilament Prolene Suture 2/0 25mm Taper Cut Needle		
	(90cms Suture) USP,	Suture + Needle	1. 2
	Monofilament Prolene Mesh 17cms X 11cms USP.	Mesh	1, 2
78.	Monofilament Prolene Mesh 8.5cms X 11 cms USP.	Mesh	1, 2
79.	Monofilament Prolene Suture 2/0 17mm 1/2 Circle Taper Cut		
	Needle USP.	Suture + Needle	1, 2
	Monofilament Prolene Suture 1/0 25mm 1/2 Circle Taper Cut		
	Needle USP.	Suture + Needle	1, 2

	Item Name (1)	(7)	Levels (3)
X-RA			
181.	Barium Sulphate - Compound IP.	Powder	1, 2
182.	Barium Sulphate Suspension 95% W/V (Micropaque Suspension for Double Contrast for Gastro Intestinal Tract) IP/BP.	Suspension	i, 2
183.	Sodium Meglumine Amidotrizoate (Iodine Content 60% USP) (10 AMPS IN CBB)	Injection	1, 2
184.	Sodium meglumine Amidotrizoate (Iodine Content 76% USP) (10 AMPS IN CBB)	Injection	1, 2
185.	Iohexol 10ml 180mg/ml (25 AMPS IN CBB WITH HCP)	Injection	1, 2
186.	Iohexol 10ml 240mg/ml (25 AMPS IN CBB WITH HCP)	Injection	1, 2
187.	Iohexol 10ml 300mg/ml (25 AMPS IN CBB WITH HCP)	Injection	1, 2

NOTE :

- 1. Items No. 52 to 76 will be in use where Dental Surgeon is available.
- 2. Items No. 77 to 87 will be in use where Intravenous fluid preparation facility is available.
- 3. Items No. 130 to 140 will be in use where Eye/ENT/Plastic Surgery facilities are available.
- 4. All suture material have expiry dates.

 Check for some on indenting and on regular basis.
- Needles and suture material when bought separately are more economical and useful to the surgeons who can use without wasting.
- 6. There are other Indian Companies apart from Johnson and Johnson who manufacture and market suture material.
- 7. All synthetic suture material are rarely used and very expensive and need to be given to individual surgeon who use them for accounting. They are not economical to be purchased and stored.

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III. LABORATORY CHEMICALS

- 01. Acetic Acid 1% IP
- 02. Benedict's qualitative reagent (20 Bots. in a CB box with Honeycomb partition NFI
- 03. Benedict's quantative solution reagent
- 04. Xylene pure.
- 05: Chloroform A.R.
- 06. Acetone Extra Pure
- 07. Paraffin Wax MP 58 degree C to 60 degree C
- 08. Potassium Aluminium Sulphate purified
- 09. Haematoxyllin
- 10. Mercuric Chloride purified
- 11. Eosin
- 12. Bismack Brown
- 13. Light Green
- 14. Potassium Iodine IP.
- 15. Formaldehyde
- 16. Gold Chloride 1gm
- 17. Activated Charcoal
- 18. Sodium Bicarbonate
- 19. Glacial Acetic Acid
- 20. Methylene Blue
- 21. Gentian Violet
- 22. Sodium Chloride
- 23. Carbol-Fuschin
- 24. Glycerine

- 25. Sodium Meta-Bisulphate
- 26. Potassium Hydrogen Ortho Phosphate
- 27. Sodium Hydrogen Ortho Phosphate
- 28. Potassium Di-chromate
- 29. Concentrated Sulphuric Acid
- 30. Concentrated Nitric Acid
- 31. Tri-Sodium Citrate
- 32. Orange-G
- 33. Schiff Reagent
- 34. Neutral Red
- 35. Sudan III
- 36. Mercuric Oxide
- 37. Sodium Thiosulphate
- 38. Iodine
- 39. Alcian Blue
- 40. Phospho-tungstic Acid
- 41. Liquid Paraffin
- 42. DFX Mountant
- 43. Liquid Ammonia
- 44. Concentrated Hydrochloric Acid
- 45. Sulpho Salicylic Acid
- 46. Sodium Nitro Prusside
- 47. Thrombokinase 10 mg Tablet
- 48. Silver Nitrate
- 49. Egg Albumin Flakes
- 50. Potassium Hydroxide

- 51. Calcium Chloride
- 52. Schorr's Solution
- 53. Drabkin's Solution
- 54. Glycol Methacrylate
- 55. Sodium Ethoxide
- 56. Sodium Methoxide
- 57. Para-formaldehyde
- 58. Calcium Acetate
- 59. Sodium Acetate
- 60. Sodium Borohydride
- 61. Acid Fuchcin
- 62. Basic Fuchcin
- 63. Ether AR
- 64. Glacial Acetic Acid AR
- 65. Sodium Tongstate AR
- 86. Molybdic Acid AR
- 67. Copper Sulphate AR
- 68. Sodium Carbonate AR
- 69. Sodium Hydroxide AR
- 70. Tataric Acid AR
- 71. Potassium Oxalate AR
- 72. Sodium Citrate
- 73. Ammonium Oxalate
- 74. Ammonium Sulphate
- 75. Pierie Acid AR
- 76. Ferric Chloride AR
- 77. Perchloric Acid AR
- 78. Trichloro Acetic Acid AR

Table 17.2.1 Essential Drug List for 30 to 100 Bed Hospitals

SI.No. Item Name	Formulation
1 Atropine sulphate 0.5 mg/ml IP, 1 ml	Inj
2 Valathamate Bromide 8 mg/ml 1 ml	Inj
3 Mephentermine 30 mg/ml IP, 10 ml	Inj
4 Adrenaline I IN 1000 BP, Iml	Inj
5 Heparin 5000 IU/ml IP, 5ml	Inj
5 Pentazocine Lactate 30 mg/ml, 1 ml	Inj
6 Diazepam 10 mg/ 2 ml IP, 2 ml	Inj
7 Suxamethonium Chloride 50 mg/ml, 10 ml	Inj
8 Dexamethasone 4 mg/ml IP, 2ml	Inj
9 Hydrocortisone Sodium Succinate	lnj
10 Insulin 40 iu/ml IP, 10 ml	Inj
11 Frusemide 20 mg/ml IP, 2 ml	Inj
12 Methyle Ergometrine 0.2 mg/ml IP, 1 ml	Inj
13 Oxytocin 5 iu/ml IP, 1 ml	Inj
14 Gentamecin 40 mg/ml IP/BP, 2 ml	Inj
15 Pencillin - Benzyl 5 lacs IU IP	Inj
16 Benzyl Pencillin 10lacs IU IP	Inj
17 Polyvalent anti-snake venom	Inj
18 Dextrose 5 % INJ. IV IP	INJ. IV
19 Aminophylline 2.5 % INJ. IV IP, 10 ml	Inj
20 Ketamine 50 mg/ml USP, 10 ml	Inj
21 Pyridine Aldoxime Methiodide, 20 ml	Inj
22 Lignocaine 2 % W/V plain BP, 30 ml	Inj
23 Thiapentone Sodium 500 mg IP	Inj
24 Analgin 0.5 gm with Benzaphen, 2 ml	- Inj
火 25 Ranitidine 50 mg, 2 ml	Inj
26 Dopamine Hydrochloride 40 mg, 5 ml	INJ. IV
27 Metoclopramide HCL 5 mg/ml, 2 ml	Inj
28 Aqueous solution of Hemocoagul, 1 ml	Inj
29 Aluminium Hydroxide 500mg	Tab
30 Furozolidone 100 mg	Ta
31 Iodo Chlorohydroxy Quinoline	Tab
32 Propranolol 40 mg IP	Tab
33 Spironol Actone 25 mg	Tab
34 Acetyle Salicyclic Acid 200 mg	Tab
35 Analgin 500 mg/ml USSRP; 30 ml	 Inj
36 Analgin 500 mg IP	Tab
37 Paracetamol 500 mg BP/IP	Tab
38 Phenobarbitone 30 mg IP	Tab
39 Phenobarbitone 60 mg IP	Tab
40 Diazepam 5 mg IP	Tab
41 Phenytion Sodium 100 mg IP	Tab
42 Ibuprofen 400 mg IP	Tab
43 Diclofenac Sodium 50 mg	Tab
44 Indomethacin 25 mg 45 Hudroxy progesterone 250 mg/ml L ml	Tab
	Inj
46 Prednisalone 5 mg IP	Tab
47 Insulin Zinc Suspension (Lente)	Inj
48 Glybenclamide 5 mg IP	Tab
49 Frusemide 40 mg IP	Tab
50 Tetracycline 250 mg IP	Caps

Table 17, 2ssential Drug List for 30 to 100 Bed Hospitals Continued

SLNo. I	tem Name	Formulation
	Ampicillin 250d mg IP/BP	Inj
	Ampicillin 500 mg BP/IP	Inj
	Amoxicillin 400 mg	Caps
	lorfloxacin 400 mg	Tab
	iprofloxacin 500 mg	Tab
	Ciprofloxacin 2 mg/ml	INJ. IV
	Ampicillin 250d mg IP/BP	Caps
	Thloramphenicol 250 mg IP	Caps
	Erythromycin Estolate 250 mg	Lab
	Pencillin Procaine 20 lacs IU	Inj
61 [3	Benzaphene Pencillin 12 lacs	Inj
	ulphamethoxazole 400 mg	Tab
	Actronidazole 5 mg/ml, 100 ml	INJ. IV
	Actronidazole 400 mg BP/IP	Tab
	lebetlazole 100 mg	Tab
	ctanus Toxoid 10 doses IP/BP	lnj
	anti RabiœVaccine, 30 ml	Vcc
	alcium Gluconate 500 mg IP/BP	Tan
	Dextrose 25 % INJ. IV IP, 5 ml	INJ. IV
	otassium Chloride 15 % W/V USP	Inj
	odium Bicarbonate 7.5 % W/P, 25 ml	INJ. IV
	odium Chloride 0.9 % IP, 540 ml	INJ. IV
	odium Chloride with Dextrose, 540 ml	INJ. IV
	odium Lactate-compound, 540 ml	INJ. IV
	albutamol 4mg IP	Tab
76 T	erbutalin 2.5 mg USP	Tab
77 C	hloraphenical Applicaps 1 %	Oint
78 G	entamycin 0.3 % W/V USP, 3 ml	Drops
79 C	hlorpheniramine Meleate 10 mg, 1 ml	Inj
80 C	hlorpheniramine Melcate 4 mg	Tab
81 C	hlorohexidine Gluconate 7.5 %, 1 lt	Lqd
82 13	enzoin CO TR IP, 450 ml	Lqd
83 10	odine - Weak Solution TR-IP, 450 ml	Lqd
84 E	ther - Anaesthetic IP, 500 m;	Lqd
	alothane BP, 250 ml	Lqd
	ignocaine 5 % W/V (Heavy), 2 ml	lnj
87 N	fannitol 20 % INJ. IV IP, 100 ml	INJ. IV
	alathamate Bromide 10 mg	Tab
	anitidine 150 mg	Tab
90 E	tophylin 169,4 mg Theophylline, 2 ml	<u>Inj</u>
91 [ramycetin Sulphate 1 % W/W IP, 100 gm	Oint
	1etochloropramide	Tab
	ijīgoxin 0.25 mg IP	Tab
	itamin B Complex-therapeutic	Tab
	itamin B1 - 33 mg B6 - 33 m, 3 mlg	Inj
	enzyl Benzoate application 25 %, 450 ml	Eml
	richtorometaxylenol 105 % RWC/3, 5 lt	Lqd
	ormaldehyde IP, 500 ml	Lqd
COMMERCIAL PROPERTY.	Vater for Injection, 5 ml	[inj

Table 17.2.2 List of Drugs for District Hospitals

Injections	Tablets
1. Ketorol	1. Analgin 500 mg
2. Aminophylline	2. Aspirin 150 mg, 300 mg
3. Atrophine	3. Paracetamal 500 mg
4. Adrenaline	4. Cap. Ampicillin - 250 mg, 500 mg
5. Botrophase	5. Atenalol 25 mg, 50 mg
6. Benzethene Pencillin 12 Lakhs	6. Tab. Buscopan
7. A S V (Anti snake Venom Serum)	•7. Brufen 200 mg. 400 mg
8. Betamethasone 4 mg./ml.	8. B. Complex The apoutic and Prophylactic
9. Baralgan or Buscopan	The state of the s
10. Vit. 'C' (500 mg)	9. Multi Vitamin Therapeutic and Prophylacti 10. Cap. Chloromycetine 250 mg, 500 mg
11. Calcium Gluconate	11. Tab. CPM 4 mg
12. Chloromycetine	12. Ciprofloxacin 500 mg, 250 mg
13. C. P. 10 Lakhs (Crystalline Penicillin)	13. Digoxin 0.25 mg
14.500 lakhs	14. Diazepam 5 mg
15. Dopamine	15. Diiodohydroxy Quinoline
16. Deriphyllin	16. Deriphylin retard
17. Dextrose 5%	17. Diclonac Sodium
18. Dexamethasone	18. Euglucon 5 mg, 2.5 mg
19. Ampicillin 500 mg.	10. Cap Talassellis 250
20. Fructodex (10 Per cent)	19. Cap. Tetracycline 250 mg, 500 mg
21. Dextrose Saline	20. Tab. Ethambutal 600 mg, 800 mg
22. Haemaccel (450 ml)	21. Ferrous Sulphate (300 mg)
23. Insulin - Plain 10 ml vial	22. Tab. Lasix 40 mg
24. Insulin - Lente 10 ml vial	23. Tab. Furazolidine (100 mg)
25. Lasix	24. Tab. Folic Acid (5 mg)
26. Metaclopropamide	25. Tab INH 300 mg
27. Metronidazole	26. Loparamide
28. Normal Saline	27. Tab Mcbendazale & Almith - 400 mg
29. Hydrocortizone Sodium Succinate	28. Magnesium Trisilicate
0. (TEFAIDRININ) 100 mg	29. Tab. Methyl Dopa 250 mg
1. Mannitol 20 %	30. Cap. Nifedapine 5, 10, 20 mg
2. Pro. penicilline (4 Lakhs)	31. Tab. Prednisolone 5, 10 mg
3. Ranitidine	32. Tab. Phenobar sitone Sodium 30 mg, 60 mg
1. P ₂ nm (2-Pyridine Aldoxine Meth-odide 25	33. Tab. Ranifidine 150mg, 300 mg
5. Ringer lactate	34. Cap. Rifampicin 150 mg, 450 mg
6. Streptomycine (IG)	35. Tab. Salbutamol 2 mg, 4 mg
7. Tetvae ampoule (0.5 cc)	36. Tab. Pyrizinamide 750 mg
	37. Tab Septian D. S. Co-trimorazele DS
8. Strepto penicilline 1/5 gm single dose	138. 130. Vilamin C 100 mg, 500 mg
D. Dextrose 25 %, 50 %	39. Tab. Norflaxcin 400 mg
1. Dictofenac Sodium	40. Metronidazole
2. Omnatax 500 mg, 1000 mg	41. Chlorognine
3. Garamycin 80 mg.	42. Erythromycine Esteolate 250 mg
L. Imferon F12	
5. Human insulin - Human actrapid	The second secon
i. Human insulin - Human actrapid i. Human insulin - Human mixtard	
Phenobarditana Sadio da da Sadio	
7. Phenobarditone Sodium (Luminal) 200 mg 8. አጠንህ ከሁነ ampoules	
s. Rudyours amponies	

Table 17.2.2. Conti...

Skin & STD	Other Tablets
1 Ointments	1. Grisovin FP
1. Ledercort	2. Nizral
2 Eumosone	3. Canesten Vag
3. Tenovate	4. Roxid
4. Diprovate	
5. Dentalene	
6. Diprovate MF	6. Recolina
7. Dipsalic	Anaesthetics
8. Millicortin-vioform	1. Inj.Thiopentone sodium, 0.5 gm/vial
9. Betagel	2. Inj. Succinvl scoline, 50 mg/cc-10 ml vial
10. Diprovate RD	3. Inj Panlon (Infar Company), Anyoule
11. Diplene	4. Atracurium (Tracurium), Ampoule
12. Fembesol	5. Inj Vekuronium Bromide (Norcuron),
13. Steriderm	6. Kotpoilte, 50 mg/cc - 10 ml vial
14. Exel	7. Inj Pethidine, Ampoule
	8. Morphine, Ampoule
15. Elziderm	9. Inj Diazepani, Ampoule
II Anti Fungal Ointment	10. Inj Pentarycine, Ampoule
1. Phytorol	11. Inj Tramadal Hydrochloride (Tramazac), 50
2. Nizral	12. hytronipolification, Ampoule
3. Canesten	13. Inj Glycopyrrolate, Ampoule
4. Fungitop	14. Inj Neostigmine, 0.5 mg/ml - amp
5. Fumin	15. Inj. Phenergan, Ampoule
6. Tinederm	16. Inj Synostamin, Ampoulc
7. Candid	17. Inj Ephedrin Hydrochloride, Ampoule
8. Candid B lotion	18. Inj Propronolal, Ampoule
9. Surfaz	19. Halothane, 200 ml bottles
Other Ointments\\	20. Diethyl ether, 500 ml bottles
1. Cotaryl	21. Inj Lignocaine Hydrochloride, 2 %
2. Aloderm	22. Inj Lignocaine Hydrochloride, 4 %
3. GAB	23 Init ignoralia II a 5.07
4. Siloderm	23. Inj Lignocaline Heavy, 5 % ampoule
5. Ayur calamine	24. Inj Sensoracaine, 0.5 % ampoule/ vial
6. Dermical	25. Inj Sensoracaine Heavy, 0.5 % 4 ml
7. Moisturex	26. hippanatulreially, tubes
8. Clinade	27. Lignocaine viscous, bottles
9. Erytop	Emergency Drugs
	1. Inj Adrenaline, ampule
10. Fucidin	2. Inj Lasix, ampoule
11. Ensamycin	3. Inj Mephentine, 30 mg/cc - 10 ml vial
12. Gentamyein	4. Inj Mannitol 10 %, 250 ml bottles
13. Silverex	5. Inj Dopamine, Ampoules
14. Airol	
5. Retino	
6. Persol forte	
Anti Allergic Tablets	
. Hisnofil	
. Zetop	
. Alerid	
. Rhizine	
	,
	- magning and a supplementary of the boundary of the supplementary of th
. Polaramine repetabs	
. Trexyl 60 mg	

GOVERNMENT MEDICAL STORES, BANGALORE.

Item Name (1)	Formulation (2)	Level: (3)
<u>ANTACIDS</u>		
Aluminium Hydroxide 500 mg	Tablets	1, 2, 3
Magnesium trisilicate 500 mg	Tablets	1, 2, 3
Cisapride 10 mg	Tablets	1, 2, 3
Ranitidine 150 mg IP	Tablets	1, 2, 3
ANTEDOTES		
Atropine Sulphate 0.5 mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
Diptheria Antitoxin (ADS) 10,000 IU/AMP IP	Injection /	1,.2
Tetanus Antitoxin 10,000 IU/VIAL IF (100 VIAL IN CBB WITH HCP) BP.	Injection	
Polyvalent Anti-snake venom serum. Lyophylised Ative 0.2% Phenol Before	Injection with distilled water Lyphilisation	1, 2, 3
Pyridine Aldoxime Methiodide (PAM) Antidote for Organo Phosphorus isoning (10 AMPS IN CBB)	Injection ÷	1, 2, 3
ANTI-SPASMODICS		
Valathamate Bromide Smg/ml 1ml AMF (25 AMPS IN CBB WITH HCP.)	Injection	1, 2, 3
Valathamate Bromide 10mg	, Tablet	1, 2, 3
Hyoscine Butyl Bromide 20 mg/ml BP. (100 AMPS In CBB WITH HCP)	Injection	1, 2

1. District Hospital 2. 30 - 100 beds hospital 3. Primary Health Centre.

Item Name	Formulation (2)	Levels
LAXATIVE		
Paraffin-Liquid (20 BOTS PKG IN CBB WITH HCP) IP/BP	Liquid	1, 2, 3
ANTI-DIARRHOEAL		
Furozolidone 2% Suspension	Suspension	1, 2, 3
Loperamide 2mg	Tablet	1, 2, 3
CARDIAC		
Digoxin 0.25 mg/ml IP (25 AMPS IN CBB WITH HCP)	Injection	1, 2,
Digoxin 0.25 mg IP	Tablet	1, 2, 3
Diltiazem 30 mg	Tablet	1, 2
Procainamide 100mg/ml IP	Injection	1,2
Proprencial 40 mg IF	Tablet	1, 2, 3
Verapamil Hydrochloride 40 mg IP	Tablet	1. 2
Verapamil HCL 5mg/2ml IP	Injection	1, 2
Dilsopyramide 150mg	Capsule	1
Nefedipine 10mg	Tablet	1, 2
Nefedipine Retard 20 mg USP	Tablet	1, 2
Dihydrallazine 25mg USF	Tablet	1, 2
Metoprolol 50mg	Jablet	1, 2
ANTI-ANGINAL		
Enalapril Maleate 5mg (Strip)	Tablet	1, 2, 3
Glyceryl Trinitrate 0.5mg IP	Tablet	1, 2, 3
Isosorbide 5 Mono Nitrate 20 mg	Tablet	1, 2, 3

	lten Name	Formulation	.Leve1s (3)
5.5	EMERGENCY		
	Mephentermine 30mg/ml [P.	Injection	1, 2, 3
	Mephentermine 15mg/ml IP.	· Injection	1, 2, 3
	Adrenaline 1 In 1000 BF.	Injection	1, 2, 3
	Dobanina Hydrochlorida 40mg/ml (V 38 'USP : 25 AMFS IN DES WITH HCP).	Injection-IV	1, 2, 3
	Bubivacaine Hudrochloride 100ag/al BP/USP (100 AMPS IM CBB WITH HCP)	Injection	1, 2
3	ANTI-HYPERTENSIVE		*
	Methyldopa 250mg IP/BP	Tablet	1, 2, 5
	Reservine intim! USP. (100 AMPS in CBS WITH HCP)	Injection	1, 2
	Dihydrallazine ISpg USP		
7.	DIURETIC		
	Frusenics 40mg Amiloride HEL Eng	Tablet	
	Frusenics Computal IF. (100 AMFB IN CBB WITH HOF)	Injection	1, 2, 5
	Iblanthalidene 100mg USF	Tablet	1, 2, 3
	Spironolactone 25mg	Tablet	1, 2, 3
	ANTI-DIABETIC .		
	Fhenfarmin HCL ECmg IF (IN TIMED DISINTEGRATION FORM)	Carsuls .	1, 2, 3
	Insulta 40 (U/m) IP IS 100 VIAL IN CRE WITH HEP)	Injection	1, 2, 3
	Insulin-protemir Zinc &C (U/m) IP (100 VIAL IN CES WITH HCP)	Injection	1, 2, 3
	Insulin Zinc Suspension (Lente) 40 IU/ml (100 VIAL IN CBS WITH HCF)	Injection	1, 2, 3

Ξ

	Item Name	Formulation (2)	Levels (3)
	Purified Insulin 40 Units/ml Pork Monocomponent	Injection	1, 2,
	Purified Insulin 40 Units/ml Isophane	Injection	1, 2,
	Purified Insulin 40 Units/ml. zinc suspension	Injection	1, 2,
	Purified Insulin 40 Units/ml Mixture of Neutral and Isophane	Injection	1, 2,
	Purified Inpulin 40 Units/ml Monocomponent - Human	Injection	1,
	Glybenclamide 5mg IP	Tablet	1, 4, 3
	Tolbutamide 0.5mg IP/BP	Tablet	1, 2, 3
9.	ANTI-VERTIGO		
	Cinnarizine 25mg	Tablet	1
10.	ANTI-COAGULANT		
	Heparin 5000 IU/ML IF (100 VIALS IN CBB WITH HCF)	Injection	1, 2
10.1	COAGULANT		
	Adrenochrome Monosemi Carbazone 0.75mg/ml (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
	Adrenochrome Monosemicarbazone 0.5mg	Tablet	1, 2, 3
1.	ANALGESIC/ANTIPYRETIC		
	Paracetamol 125mg/5ml IF/BF.	Suspension	1, 2, 3
	Paracetamol S00mg SF/IP.	Tablet	1, 2, 3
	Ketorolac Tromethamine 30mg/ml	Injection	1, 2
	Pentazocine Lactate 30mg/ml IF. (25 AMPS IN CBB WITH HCP)	Injection	1, 2, 3

	Item Name (1)	Formulation (2)	Levels (3)
	Bubrenorphine HCL 0.3mg/ml	Injection	1, 2
8	Buprenorphine 0.2mg	Tablet	1
	Ketamine 10mg/ml USP	Injection	1, 2
	Ketamine 50mg/ml USP	Injection	1, 2
	Ibuprofen 400mg BP.	Tablet	1, 2, 3
	Ibuprofen 200mg IP	Tablet	1, 2, 3
	Diclofenac Sodium 50mg	Tablet	1, 2, 3
	Diclofenac Sodium 100mg S.R	Tablet	1, 2, 3
	Diclofenac Sodium 25mg/m1	Tablet	1, 2, 3
	Diclofenac Sodium 50mg	Injection	1, 2, 3
	Diclofenac Diethylammonium EQ to Diclofenac Sodium 1% W/V	GEL GEL	1, 2, 3
12.	Indomethacin 25mg DENTAL	Tablet	1, 2, 3
	Clove Oil IP (25 BOT IN CBB WITH HCP)	Gil	1, 2, 3
13.	ANTI-EPILEPTIC		
	Phenobarbitone 200mg/1ml IF (100 AMPS in CBB WITH HCF)	Injection	1, 2, 3
W g N	Phenobarbitone 30mg IP	Tablet	1, 2, 3
	Phenobarbitone 60mg IP	Tablet	1, 2, 3
	Phenytoin Sodium 100mg/ IP	Tablet	1, 2, 3
	Phenytoin Sodium 100mg/2ml	Tablet	1, 2, 3
	Carbamazepine ZOO MG IP	Tablet	1, 2
2.43	Sodium Valproate 200mg	Tablet	1, 2
	Trihexy Phenidyl Hydrochloride 2mg USP	Tablet	1

Item Name (1)	Formulation (2)	Levels (3)
PSYCHOTHERAPEUTIC		
Chlorpromazine Z5mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2
Chlorpromazine 25 mg/ml IP	Tablet	1, 2, 3
Chlorpromazine 100mg/ml IP	Tablet	1, 2, 3
Diazepam 10mg/2ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
Diazepam 5mg IP	Tablet	1, 2, 3
Fluzetine HCL 20 mg	Capsule	1, 2
Amitryptyline Hydrochloride 25mg IP/BP	Tablet	1, 2, 3
Trifluperazine 5mg IP	Tablet	1, 2
Fluphenazine Decanoze 25mg/ml BP(100 VIALS IN CBB WITH HCP)	Injection	1
Lithium Carbonate 300mg IP	Tablet	1
ANTI-ALLERGIC		
Promethazine 2.5% W/V USP (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
Promethazine 25 mg IP	Tablet	1, 2, 3,
Oxymetazoline 0.05% Aquoves Solution (Nasal Drops)USP (50 BOT IN CBB)sterile	Drops	1, 2, 3
Hydrocortisone Nasal NFI (50 BOT IN CBB)Sterile	Drops	1, 2
Chlorpheniramine Maleate 10mg/ml IP	Injection	1, 2, 3
Chlorpheniramine Maleate 4/mg IP	Tablet	1, 2, 3
Astemizole 10 mg	`Tablet	1, 2,
Terfenadine 60 mg	Tablet	1
Embramine 25 mg (PKG IN CBB)	Tablet	1,72,3

	Item Name (1)	Formulation (2)	Leve (3
16.	ANTI-GOUT		
	Allopurinol 100 mg	Tablet	1,12
17.	<u>ANAESTHETIC</u>		
	Gallamine 40mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2
	Suzamethonium Chloride 50mg/ml	Injection	1, 2
	Pancuronium Bromide 2mg/ml (100 AMPS IN CBB WITH HCP)	Injection	1, 2
	Tubocurarine 10mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2
-	Neostigmine 0.5 mg/ml IP (100 AMPS IN CBB WITH HCP)	Injection	1, 2
	Ether-Anaesthetic IP (IN AMBER COLOURED BOTTLES)	Liquid	1, 2
	Hyaluronidaze 1500 IU/ml (100 AMPS IN CBB WITH HCP)	Injection	1, 2
	Ethyl Chloride-spray with leak proof valve IP. (25 BOT.IN CBB)	Liquid	1, 2,
	Halothane BP	Liquid	1, 2
	Lignocaine 1% W/V IP (25 VIAL IN CBB)	Injection	1, 2,
	Lignocaine 2% with Adrenaline (25 VIAL IN CBB)	Injection	1, 2,
	Lignocaine 2% W/V PLAIN BP. (25 VIAL IN CBB)	Injection	1, 2,
	Lignocaine 4% W/V (Topical) (25 BOT. IN CBB) USP.	Liquid	1, 2,
	Lignocaine 5% W/V (Heavy) (25 AMPS IN CBB WITH HCP)	Injection	1, 2,
	Lignocaine Dental cartride (25 AMPS IN CBB WITH HCP)	Injection	1

	Item Name (1)	Formulation (2)	Levels (3)
	Lignocaine - Viscous 2% (25 VIAL IN CBB)	Liquid	1
	Lignocaine 2% Jelly USP. (100 tubes in CBB)	Jelly	1, 2, 3
	Thiapentone Sodium 500mg IP (25 AMPS in CBB)	Injection	1, 2
	Thiapentone Sodium 1mg BP (25 AMP/VIAL IN CBB)	Injection	1
18.	ANTI-INFECTIVE		
18.1	ANTI-FUNGAL		
	Hamycin (vaginal) 4LAC IV (Strips)	Ovules	1, 2, 3
	Nystatin 1LAC IV Vaginal IP. (Aluminium Foils in CBB)	Tablet	1, 2
	Griseofulvin 250mg	. Tablet	
14	Griseofulvin 125mg	Tablet	
	Micenazole Nitrate 2% (Skin) (100 Tubes in CBB) BP/USP.	Dintment	1, 2
	Micenazole Nitrate 2% (EAR)	Drops	1, 2
18.2	ANTI-BACTERIAL		
	Tetracycline-Dxy 50mg/ml IP (100 VIAL IN CBB WITH HCP)	Injection	1, 7 3
	Tetracycline 250mg IP	Capsule	1, 2, 3
	Cefotazime 1mg	Injection	1, 2
	Doxycycline HCL 100mg	Capsule	1, 2, 3
	Gentamicin 40mg/ml IP/BP. (100 VIAL in CBB)	Injection	1, 2
Swell .	Ampicillin 250mg IP/BP (100.VIAL IN CBB)	. Injection	1, 2, 3

Item Name (1)	Formulation. (2)	Level: (3)
Ampicillin 500mg IP/BP. (100 VIPL in CBB)	Injection	1, 2, 7
Ampicillin 250mg IP/BP	Capsule	1, 2, 3
Amoxicillin 250mg BP/IP.	Capsule	1, 2,
Amoxycillin 500mg	Injection	1, 2, -
Norfloxacin 400mg	Tablet	1, 2
Nalidixic Acid 500mg	Tablet	1, 2
Nalidixic Acid Z00mg/5ml	Syrup	1, 2
Ciprofloxacin 500mg	Tablet	1, 2
Ciprofloxacin 2mg/ml	Injection	1, 2
Chloramphenicol Succinate 1mg Vial IP. (100 VIAL In CBB)	Injection	1, 2
Chloramphenicol 250mg IP. (100 VIAL In CBB)	Capsule	1, 2, 3
Chloramphenicol 500mg IP (100 VIAL In CBB)	Injection	1, 2, 3
Cloxacillin 500mg/VIAL IP/BP. (100 VIAL in CBB WITH HCP)	Injection	1, 2
Cloxacillin 250mg IP/BP. (Aluminium Foil Packing.)	Capsule	1,.2
Erythromycin estolate 100mg/5ml USP.	Suspension	1, 2, 3
Erythromycin estolate 250mg IP/BSP	Tablet	1, 2, 3
Kanamycin Sulphate 1mg IP (100 VIAL IN CBB WITH HCP)	Injection	1
Pencillin-Benzyl 5 LACS IV IP (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
Benzyl Pencillin 10LAcs IV IP (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3

Fortified Procaine Pencillin Injection 1, 2, 1 4LACS IV IF. (100 VIAL IN CBB WITH HCP) Pencillin Procaine 20 LACS IV IP. (100 VIAL IN CBB WITH HCP) Benzathene Pencillin 6 LACS IV IP. (100 VIAL IN CBB WITH HCP) Benzathene Pencillin 12 LACS IV IP. (100 VIAL IN CBB WITH HCP) Benzathene Pencillin 12 LACS IV IP. (100 VIAL IN CBB WITH HCP) Benzathene Pencillin 24 LACS IV IP. (100 VIAL IN CBB WITH HCP) Sulphadiarine 500mg IP. Tablet 1, 2, 3 Sulphadiarine 500mg IP. Trimethroprim 50mg Sulphamethoxacole 9p/IF. Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxacole 200mg Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxacole 200mg/5ml Suspension 1, 2, 3 Methenamine mandalate 0.5mg USP. Tablet 1, 2, 3 18.3 ANTI-TB Ethambutol 200mg IP Ethambutol 400mg IP Tablet 1, 2, 3 Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 500mg IP Tablet 1, 2, 5		Item Name (1)	Formulation (2)	Leve] (3)
### CIOO VIAL IN CBB WITH HCP Benzathene Pencillin 6 LACS IV IP. Injection 1, 2, 3		4LACS IV IF.	Injection	1, 2,
### Comparison of Comparison o	6. E.		Injection	1, 2,
### Sulphadiazine SoOmg IP. ### Tablet			Injection	1, 2, 5
(100 VIAL IN CBB WITH HCP) Sulphadiazine 500mg IF. Tablet 1, , 3 Sulphadimidine 500mg IP. Tablet 1, 2, 3 Trimethroprim S0mg Sulphamethoxazole Bp/IP. Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxazole 200mg Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxazole 200mg/5ml Suspension 1, 2, 3 Methenamine mandalate 0.5mg USP. Tablet 1, 2, 3 18.3 ANTI-TB Ethambutol 200mg IP Tablet 1, 2, 3 Ethambutol 400mg IP Tablet 1, 2, 3 Ethambutol 800mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3			Injection	1, 2,
Sulphadimidine 500mg IP. Tablet 1, 2, 3 Trimethroprim 80mg Sulphamethoxazole 8p/IP. Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxazole 200mg Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxazole 200mg/5ml Suspension 1, 2, 3 Methenamine mandalate 0.5mg USP. Tablet 1, 2, 3 18.3 ANTI-TB Ethambutol 200mg IP Tablet 1, 2, 3 Ethambutol 400mg IP Tablet 1, 2, 3 Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 900mg IP Tablet 1, 2, 3 Ethambutol 900mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3			Injection	1, 2, 3
Trimethroprim SOmg Sulphamethoxazole Bp/IF. Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxazole ZOOmg Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxazole ZOOmg/5ml Suspension 1, 2, 3 Methenamine mandalate 0.5mg USP. Tablet 1, 2, 3 18.3 ANTI-TB Ethambutol ZOOmg IP Tablet 1, 2, 3 Ethambutol 400mg IP Tablet 1, 2, 3 Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 500mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3		Sulphadiazine 500mg IP.	Tablet	1, , 3
Sulphamethoxazole Bp/IF. Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxazole 200mg Tablet 1, 2, 3 Trimethoprim 40mg Sulphamethoxazole 200mg/5ml Suspension 1, 2, 3 Methenamine mandalate 0.5mg USP. Tablet 1, 2, 3 18.3 ANTI-TB Ethambutol 200mg IP Tablet 1, 2, 3 Ethambutol 400mg IP Tablet 1, 2, 3 Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 800mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3		Sulphadimidine 500mg IP.	Tablet	1, 2, 3
Sulphamethoxazole 200mg Tablet Trimethoprim 40mg Sulphamethoxazole 200mg/5ml Suspension 1, 2, 3 Methenamine mandalate 0.5mg USP. Tablet 1, 2, 3 18.3 ANTI-TB Ethambutol 200mg IP Tablet Ethambutol 400mg IP Tablet Tablet 1, 2, 3 Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 900mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3			Tablet	1, 2, 3
Sulphamethoxazole 200mg/5ml Suspension 1, 2, 3 Methenamine mandalate 0.5mg USP. Tablet 1, 2, 3 18.3 ANTI-TB Ethambutol 200mg IP Tablet 1, 2, 3 Ethambutol 400mg IP Tablet 1, 2, 3 Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 800mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3			Tablet	1, 2, 3
18.3 ANTI-TE Ethambutol 200mg IP Ethambutol 400mg IP Tablet 1, 2, 3 Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 800mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3			Suspension	1, 2, 2
Ethambutol 200mg IP Tablet 1, 3 Ethambutol 400mg IP Tablet 1, 2, 3 Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 800mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3		Methenamine mandalate 0.5mg USP.	Tablet	1, 2, 3
Ethambutol 400mg IP Tablet 1, 2, 3 Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 800mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3	18.3	ANTI-TB		
Ethambutol 600mg IP Tablet 1, 2, 3 Ethambutol 800mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3		Ethambutol 200mg IP	Tablet	1, - 3
Ethambutol 800mg IP Tablet 1, 2, 3 Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3	14	Ethambutol 400mg IP	Tablet	1, 2, 3
Isoniazid 100mg IP Tablet 1, 2, 3 Isoniazid 300mg IP Tablet 1, 2, 3		Ethambutol 600mg IF	Tablet	1, 2, 3
Isoniazid 300mg IP Tablet 1, 2, 3		Ethambutol 800mg IP	Tablet	1, 2, 3
		Isoniazid 100mg IP	· Tablet	1, 2,
Rifampicin 150mg IP Capsule 1, 2, 5		Isoniazid 300mg IP	Tablet	1, 2, 3
		Rifampicin 150mg IP	Capsule 1	1, 2, 3

	Item Name (1)	Formulation (2)	Levels (3)
	Rifampicin 300mg IP	Capsule	1, 2, 3
	Rifampicin 450mg IP	Capsule	1, 2, 7
	Rifampicin 100mg/ml IP	Syrup	1, 2, 3
	Streptomycin img IP (100 VIAL IN CBB WITH HCP).	Injection	1, 2, 3
18.4	ANTI-LEPROSY		
	Clofazimine 100mg IP.	Capsule	1, 2, 3
	Clofazimine 50mg	Capsule	1, 2, 3
18.5	ANTI-AMOEBIC		
	Metronidazole 5MG/ML 100ML in Aqueous Base BP. (100 BOTTLES IN CBB WITH HCP)	Injectione/IV	1, 2
	Metronidazole Benzoloxylate Suspension Equivalent to 200mg/5ml Metronidazole	Suspension	1, 2, 3
	Metronidazole 200mg BP/IP	Tablet	1, 2, 3
	Metronidazole 400mg BP/IP	Tablet	1, 2, 3
	Trinidazole	Injection	
	Tinidazola 300mg	Tablet	1, 2, 5
	Tinidazole 500mg	Tablet	1, 2
	Metochlorpramide HCL 10mg BP	Tablet	1, 2
	Metochlopramide HCL 5mg/5ml	Liquid	1, 2
	Metochlopramide HCL 5mg/ml (25 AMPS IN CBB WITH HCP)	Injection	1, 2,
	Domp∈ridon 10mg	Tablet	1

	Item Name (1)	Formulation (2)	(3) Level
18.5	ANTI-MALARIAL		
	Chloroquine 250mg/AMP IP/BP. (100 AMPS in CBB WITH HCP)	Injection	1, 2, 3
	Chloroquine 250mg BP.	Tablet	1, 2, 3
	Primaquine 7.5mg BP.	Tablet	1, 2, 3
	Primaquine 2.5mg IP	Tablet	1, 2, 3
	Sulpadoxine 500mg Pyrimethamine 35mg	Tablet	1, 2, 3
18.7	ANTI-FILARIAL		
	Diethyl carbanmazine Citrate 50mg IP/BP/USP.	Tablet	1, 2, 3
	Diethyl carbamazine Citrate 100mg IP/Bp/USP.	Tablet	1, 2, 3
19. [)BSTETRIC		
	Methyl Ergometrine 0.2mg/ml IF (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
	Methyl Ergometrine 0.125mg IF	Tablet	1, 2, 3
	Dienostrol Cream (Cream Base) (0.01% W/W with Applicator USF. 25 Tubes in CBB)	Cream	1
	Oxytocin 5 IV/ml IP. (100 AMPS in CBB WITH HCF)	Injection	1, 3
20. <u>+</u>	ORMONES		
	Hydroxy progesterone 250mg/ml USP	Injection	1, 2
	Dexamethasone 4mg/ml IP. (100 VIALS IN CBB WITH HCP)	Injection	1, 2, 3
100	Triamcinolone Acetonide IM 40mg/ml USP. (Cortico Steroids)	Injection	1

Item Name (1)	Formulation (2)	Levels (3)
Trimacinolone Acetonoide 10mg/ml USp (Intra Articular Cortico Steroid)	[njection	1
Prednisalone 5mg IP	Tablet	1, 2, 3
Prednisalone 10mg IP	Jablet	1, 2
Prednisalone 20mg IF.	Tablet	1
Thyroxine Sodium 100mg IP	Tablet	1, 2, 3
Stilbesterol Diphosphate 100mg	Capsule	1, 2
Stilbesterol Diphosphate 250mg	Injection	1, 2
1. VACCINES		
Tetanus Toxoid 10 doses IP/BF (100 VIAL IN CBS WITH HCP).	Injection /	1, 2, 3
2. <u>SERA</u>		
Anti "A" Sera IP	Sera	1, 2, 3
Anti "B" Sera IP	Sera	1, 2, 3
Anti "AB" Sera	Sera	1, 2, 3
Anti "D" Sera (monoclonal)	Sera	1, 2, 3
Coombs Sera	Sera	1, 2, 3
Australia Antigen Kits for Elisa method	Antigen	1
Australia Antigen Kits for Slide Test	Antigen	1, 2, 3
VDRL Kits of Slide Test	Diagnosts	1, 2, 3
ANTI-HELMINTHICS		
Mekendazole 100mg	Tablet	

Suspension

Mekendazole 100mg/5ml

	Item Name (1)	Formulation (2)	Leve (3
١.	ANT I -CANCER		
	Cyclophosphomide 50mg/VIAL	Injection	1
	Cyclophosphomide 100mg/VIAL	Injection	1
	Cyclophosphomide 200 mg/VIAL	Injection	1
	Cyclophosphomide 500mg/VIAL	Injection	1
	Cyclophosphomide 50mg IP	Tablet	1
	Cyclophosphomide 100mg	Tablet	1
	Azathioprine 25 mg	Tablet	1
	Mercaptopurine 50mg BP.	Tablet	1
	Vincristine Sulphate img/VIAL	Injection	1
	Doxurubicin HCL 10mg USP.	Injection	
	Mitomycin C Zmg/ VIAL USP.	Injection	1
	Mitomycin c 10mg/ VIAL USP.	Injection	1
	Asperginase 1000 KU/VIAL Containing Asperginase 10000 KU/VIAL	Injection	ì
	Bleomycin 15mg Usp.	Injection	1
	Actinomycin D (containing Actinomycin 500 mcg and Mannitol 20mg USP.	Injection	1
	Cisplatinum 10mg/VIAl	Injection	1
	Flurouracil 250gm	Capsule.	
	Methotrexate 50mg/Iml BP.	Injection .	1 /
	Methotrexate 2.5mg Tabs. BP.	Tablets	1
	Methotrexate 5mg/ml Intrethecal	Inj∈ction	1
	Flurouracil 50mg/ml IP/USP.	. Injection	1
	5-Flurouracil 250mg/5ml/ USP.	Injection	1

	Item Name (1)	Formulation (I)	Levels (3)
	Chlorambucil Zmg BF.	. Tablet	.1
	Chlorambucil 5mg BP.	Tablet	1
	Melphalan 2mg BP,	Tablet	1
	Melphalan 5mg BP.	Tablet	i
	Thio-Tepa 15mg USP.	Injection	1
	Thioguanine 40mg BP.	Tablet	
	Calcium Leucovorin 3 mg/ml. USP.	Injection	i
	Calcium Leucovorin 50 mg	Tablet '	1
	Procarbazine 50 mg	Capsule	1
	Hydroxy Urea 500 mg	Capsule	i
	Tomoxifen 10 mg	Tablet	1
25.	HOEMOPOIETIC		
	Ferrous Sulphate 200mg IP Sugar coated	Tabl∈t	1, 2, 3
	Ferrous Fumarate 200mg IP	Tablet	1, 2, 3
	Iron-dextran 50mg/ml Im/IV (100 AMPS in CBB WITH HCP) IP	Injection	1, 2, 3
	Iron-dextran 50mg/ml 10ml +1ml dual Fack	Injection	1, 2, 3
26.	VITAMINS AND MINERALS		
	Calcium Gluconate 10% IV IP (50 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
	Calcium Gluconate 500mg IP/BP.	Tablet	1, 2, 3
	Vitamin-K 10mg/ml IP. (100 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
	Folic Acid 5mg BP	Tablet	1, 2, 3

Item Name (1)	Formulation (2)	Levels (3)
Vitamin-A in Aqueous Base - 50,000 IU/ml USP.	Injection	1, 2, 3
(100 AMPS IN CBB WITH HCP)		
Vitamin A 50,000 IU.	Tablet	1, 2, 3
Vitamin A 50,000 IU/ml in Aqueous Base	Drops	1, 2, 3
Vitamin-B Complex NFI (100 VIAL IN CBB WITH HCP)	Injection	1, 2, 3
Vitamin B Complex-Therapeutic NFI	Táblet	1, 2, 3
Vitamin-B Complex Therapeutic NFI	Drops	1, 2, .
Vitamin-B1-33mg B6-33mg B12-33.3mcg/m1 (50 AMPS IN CBB WITH HCP)	Injection	1, 2
Riboflavin Vitamin B2 20mg	Tablet	1, 2
Vitamin C 500mg/5ml NFI (50 AMPS IN CBB WITH HCP)	Injection	1, 2
Vitamin C 100mg/IP.	Tablet	1, 2, 3
IV FLUIDS		
Dextrose 5% IV IP (Packing in CBB)	Injection-IV	1, 2, 3
Dextrose 10%IV IP (Packing in CBB)	Injection-IV	1, 2, 3
Dextrose 25%IV IP (50 AMPS IN CBB WITH HCP)	Injection-IV	1, 2.
Dextrose 50%IV IF (50 AMPS IN CBB WITH HCP)	Injection-IV	1, 2
Electrolyte Gastric Replacement Solution with 5% Dextrose	Injection-IV	1, 2
Electrolyte Maintenance Solution with 5% Dextrose	Injection-IV	1, 2
Electrolyte Maintenance Paediatric Solution with 5% Dextrose	Injection-IV	1, 2

Item Name (1)	Formulation (2)	Levels (3)
Potassium Chloride 15% W/V USP/BP	Injection	1, 2
Sodium Bicarbonate 7.5% W/V	Injection	1, 2, 3
Sodium Chloride 0.9% IP	Injection-IV	1, 2, 3
Normal Baline IP	Injection-IV	1, 2, 3
Sodium Chloride with Dextrose	Injection-IV	1, 2, 3
Sodium Lactate-Compound (Molar-Lactate) IP.	Injection-IV	1, 2, 3
Dextran 40 IN Normal Saline IF.	Injection-IV	1, 2
Plasma Volume Substitute Containing 3.5% degraded Gelatine	Injection-IV	1, 2
Low Molecular WT Destran 540ml	Injection-IV	1, 2
Mannitol 10% IV IP.	Injection-IV	1, 2, 3
Mannitol 10% IV IP	Injection-IV	1, 2, 3
Mannitol 20% IV IP.	Injection-IV	1, 2, 3
Water for Injection (in Machine made AMPS) IP.	Injection	1, 2, 3
ANTI-ASTHMATIC		
Salbutamol 4mg IP.	Tablet	1, 2, 3
Salbutamol 2mg/5ml	Syrup	1, 2, 3
jalbutamol Sulphate 100mcg/mt (200 Metered Doses)	Inhaler	1, 2
Terbutalin 1.5mg/ml	Syrup	1, 2, 3
Terbutalin 2.5mg/ml USP.	Tablet	1, 2, 3
Terbutalin 0.5mg/ml (50 AMPS IN CBE WITH HCP)	Injection	1, 2, 3
Aminophylline 2.5% IV IP. (50 AMPS IN CBB WITH HCP)	Injection	1, 2, 3
Theophylline 100mg IP/BP.	Tablet	1, 2, 3

Ξ.

I tem Name (1)	Formulation (2)	Levels (3)
. <u>skin</u>		
Calamine Lotion BP.	Liquid	1, 2, 3
Glyceriń IP.	Liquid	1, 2
Benzyl Benzoate Application 25%	Emulsion	1, 2, 3
Gamma Benzene Hexachloride 1%	Liquid	1, 2, 3
Certrimide Cream BP.	Ointment	1, 2, 3
Silver Sulphadiazine 1%	Cream	1, 2, 3
Setamethasone 0.1% (Skin)	Ointment	1, 2, 3
Betamethasone Valerate 0.12% with chinoform 3% Base.	Cream	1, 2
Betamethansone with Neomycin Sulphate	Cream	1, 2
Dexamethasone Acetate 0.1% and Fremycetin Sulphate cream 1%	Cream '	1, 2
Clobetasol Butyrate	Ointment	1, 2
Nitrofurazone 0.2% water soluble Base (skin) USP.	Cream	1, 2, 3
Povidone iodine USP 5% W/W (0.5% in cream base)	Cream	1, Z
Povidone Lotion USP 5%	Lotion	1, 2, 3
Paraffin White Soft IP. Cintment Base	Ointment	1, 2, 3
Podophylum Resin IP.	Powder	1, 2
Potassium Permanganate IP. (In Amber coloured bottle)	Crystals	1, 2, 3
Pscralen 5mg	Tablet	1, 2
WhitField Dintment with Benzoic Acid 6%	Ointment	1, 2, 3
Sulphur Skin Ointment 10% IP.	Ointment	1, 2, 3

ftem Name : (1)	Formulation (2)	Levels (3)
Coalter ointment USP.	Ointment	1, 2
Turpentine Liminent IP.	Liquid	1, 2, 3
Zinc Oxide (skin) 15% IF.	Ointment	1, 2, 3
Benzoin CO TR IP.	Liguid	1, 2, 3
Gentian Violet 2% USP. Topical	Solution	1, 2, 3
Gentian Violet 1% USF. Topical	Solution	1, 2, 3
Hydrogen Peroxide (in unbreakable dark Bottle) IP.	Liquid	1, 2, 3
Iodine-Weak Solution TR-IP	Liquid	1, 2, 3
Mythyl Salicylate IP. 4% W/W Mephensin IP %% Iodine IOP 5% W/W	Ointment	1, 2, 3
Polymyxin B Sulphate 5000 Unit with Bacitracin 400 units and Neomycine		
3400 Units/gm IP/BP.	Powder	1, 2, 3
Framycetin Sulphate 1% W/W IP.	Ointment	1,72, 3
EYE/EAR		
Chloraphenical 5% (Ear) BP.	Drops	1, 2, 3
Sulphacetamide 20% EAR BP	Drops	1, 2, 3
Chloramphenicol 1% (EYE) IP/BP	Ointment	1, 2, 3
Chloramphenicol o.5% EYE DROPS	Drops	i, 2, 3
Framycetin Sulphate IP 5MG	Drops	1, 2, 3
Dexamethasone Sod. Meta sulphobenzoate 0.116% W/V Framycetin	Drops	1
Chloraphenical Applicaps 1% (EYE) Sterile	Ointment	1, 2, 3
Gentamicin 0.3% W/V USP	Drops	1, 2, 3
Gentamicin 1% (EYE) USP	Ointment	1, 2, 3
and Table 1		

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II. <u>ACCESSORIES</u>

SI. No.	Item Name (1)	Formulation (2)	Levels (3)
01.	Cotton wool, Absorbable IP, 500g.Nett	Dressing	1, 2, 3
02.	Steralised medicated paraffin gauze containing Framycetin 500 Units/gm and Neomycin Sulphate IP 0.35% W/W 10cms X 10cms.	Dressing	1, 2, 3
03.	Gelatin Sponge-Absorbable 10mm X 10mm X 10mm (Dental) USP Packing in CBB.	Dressing	1, 2
04.	Gelatin Sponge-Absorbable 70mm X 50mm X 1mm (nasal) Packing in CBB	Dressing	1, 2
os.	Gelatin Sponge- Absorbable 80mm X 25mm X 7mm (Gynec.)USP Packing in CBB	Dressing	1, 2
06.	Gelatin Sponge-Absorbable 70mm X 50 mm (general) USP Packing in CBB	Dressing	1, 2
07.	Plaster-Adhesive Zinc Oxide 20% - 10cm X 10M USP.	Dressing	1, 2, 3
08.	Transparent Hypo Allergic Plaster having Bi-directional tear, size 15cms X 9.14MTS	Dressing	1, 2
07.	Porous elastic Adhesive Bandage Scms X 4MTS	Dressing	1, 2
10.	Transparent Hypo Allergic Plaster having Bi-directional tear size 7.5cms X 9.14MTS	Dressing	1, 2
11.	Plaster of Paris IP.	Powder	1, 2, 3
	Drip set-polythene for IV administration- sterlised with Gamma irradiation - Batch certificate from B.A.R.C./K.M.I.O.	Appliance	1, 2, 3
13.	Disposable Blood collection bags (CPDA Solution) 350 ml capacity	Bags	1, 2

 51.	Item Name	Formulation	Levels
No.		(2)	(3)
14.	Disposable Blood collection double bags (CPDA Solution) 350 ml capacity	Bags	1, 2
15.	Disposable Blood Lancets	Lancet	1, 2, 3
16.	Disposable Blood Drawing Sets	Drawing Set	1, 2, 3
17.	Hypodermic Needles SS ISI 1.5" X 18	Appliance	1, 2, 3
18.	Hypodermic Needles SS ISI 1.5" X 20	Appliance	1, 2, 3
17.	Hypodermic Needles SS ISI 1.5" X 22	Appliance	1, 2, 3
20.	Hypodermic Needles SS ISI 1.5" X 24	Appliance	1, 2, 3
	Hypodermic Needles SS ISI 1" X 18	Appliance	1, 2, 3
22.	Hypodermic Needles SS ISI 1" X 20	Appliance	1, 2, 3
23.	Hypodermic Needles S.S. ISI 1" X 22	Appliance	1, 2, 3
	Hypodermic Needles S.S.ISI 1" X 24	Appliance	1, 2, 3
25.	Disposable Needles 20G X 1"	Appliance	-1, 2
26.	Disposable Needles 22 G X 1"	Appliance	1, 2
27.	Disposable Needles 24 G X 1"	Appliance	1, 2, 3
28.	Disposable Needles 26G X 1"	Appliance	1, 2, 3
29.	Syringe 2CC All Glass Interchangeable ISI.	Syringe	- 1, 2, 3
30.	Disposable Syringe 2.5ml	Syringe	1, 2
31.	Syringe 5CC All Glass Interchangeable ISI	Syrtnge	1, 2, 3
32.	Disposable Syringe	Syringe	1, 2
33.	Syringe 10CC all glass Interchangeable ISI	Syringe	1, 2, 3
34.	Disposable Syringe 10 ml	Syringe	1, 2,
35.	Syringe 2000 all glass Interchangeable ISI	Syringe	1, 2, 3

51. No.	Item Name (1)	Formulation (Z)	Levels (3)
36.	Clinical Thermometer Centigrade ISI Packing in plastic tube with cap.	Appliance	1, 2, 3
37.	Rectal Thermometer Centigrade Packing in plastic tube with cap.	Appliance	1, 2, 3
38.	Gloves Surgical 6 size ISI Each Pair in Plastic cover and 25 pair in CSB	Appliance	1, 2
39.	Disposable Gloves & size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
40.	Gloves Surgical 6.5 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
41.	Disposable Gloves 6.5 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	. 1,2
-2.	Gloves Surgical 7 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
43.	Disposable Gloves 7 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
44.	Gloves Surgical 7.5 size ISI Each Pair in Plastic cover and 25 pair in CBB	Appliance	1, 2
45.	Examination Gloves Size 6 Not for surgical procedures 25 pairs in plastic bag in carton	Appliance	1, 2, 3
46.	Examination Gloves Size 6.5 Not for surgical procedures 25 pairs in plastic bag in carton	Appliance	1, 2, 3
47.	Examination Gloves Size 7.5 Not for surgical procedures 25 pairs in plastic bag in carton	Appliance	1, 2, 3
48.	Disposable Gloves size 7.5 ISI Each pair in plastic cover and 25 pairs in CBB	Appliance	1, 2

Si. Nc.	Item Name (1)	Formulation (2)	Levels (3)
49.	Sheeting waterproof mackintosh 36" width	Sheeting	1, 2, 3
50.	Acid Benzioc Powder IP 450gm Bleaching Powder GR 2 33% Chlorine ISI (Laminated HDPE Packing)	Powder	1, 2, 3
51.	Chlorine tablet 2.5gm Containing 300mg Chlorine	Tablet	1, 2, 3
52.	Denture Base Material Heat curing ISI ADAS	Powder	1
53.	Denture Base Material Cold curing ISI ADAS	Powder	1
54.	Denture Impression Material ISI ADAS	Powder	1
55.	Gum Paint-TRS Aconite, Belladonna, Iodimitis, Benzo in Methopip	Gum Paiñt	1
56.	Mercury Ip	Liquid	1
57.	Silicate Cement ISI/ADAS Glass ionomer filling material powder 15 gms and Liquid 10 gms	Cement	1
58.	Dental Prophylaxis paste	Pasta	1
59.	Sterile Absorbant Dental Points	Dental-point	1
60.	Dental Restorative Universal and Catalyst. Catalyst Paste-1, Universal Paste-1,		
	Mixing stick-35	Appliance	1
	Dental Restorative Acid Etch Bond Technique catalyst and Universal Resins Etching liquid 1 Brush Handle 100 disposable brushes and 100 disposable mixing wells.	Appliance	1
62.	Dental Floss	String	1
63.	Dental Stone Plaster ADAS	Powder	1
64.	Mercury triple Distilles for Dental Use ISI/ADAS	Mercury i	1

Sl. No.	. [1] 전 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Formulation (2)	Levels (3)
55.	Silver Amalgum Alloy with 60% Silver ISI	fowder	1
66.	Orthodontic Wire Dentauram 0.6 0.7, 0.8, and 0.9 mm gauge. Plastic packing in CBB	Wire	1
67.	Arch Wire for Orthodontic purpose gauge 0.014, 0.016, 0.018 & 0.20. Plastic packing in CBB	Wire	1
68.	Full Teeth sets Complete Square Mould, Tapering Mould avoid Mould (shade stellon 1, 2, 3, 4, 5, or equivalent	Mould	1
.67.	Anterior Teeth Sets (lower and Upper Square and Tapering : Mould Stellan Shades 1, 2, 3, 4, 5, or equivalent	Teeth	1
70.	Posterior Teeth sets (Different Shades and Sizes)	Teeth	1
71.	Calcium Hydroxide - Dycal catalyst 13gm Base 11gm 1 PAD in CBB Packing	Paste	1
72.	Dental Carving wax Block 4cms X 1.5cms X 1.5cms	Wax	1
73.	Pumice Powder for Polishing	Powder	
74.	Zinc Oxide edginol Impression Paste. Zinc Oxide Paste 125gm		
8	Euginol Paste 85gms Mixing Pad 1. ISI.	Paste	1
75.	Intra Dental Wire Soft 16	Wire	1
76.	Zinc Oxiphosphate Cement ISI/ADAS	Cement	1
77.	Dextrose Anhydrous (injectable Grade) IP/BP free from physical impurities. (PKD. in Double Poly B AG in KEG with Painted Label on KEG.	Powder	1, 2
78.	Mannitol Powder for Injection in Airtight Polybag IP/USP/BP Double . Polybag 0.2mm thickness, sealed,		
	painted label to be affixed with batch No.	Powder	1, 2

51. No.	가게 된 것이 하는 것이 되어 있다면 경험적으로 하는 것이 되는데 되었다면 하는데 되었다면 하는데 하는데 하는데 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데 되었다면 하는데	Formulation (2)	Levels (3)
79.	Sodium chloride (INJ Grade) IP free from physical impurities PKD in airtight 0.2mm Polybag		
	sealed in carton.	Powder	1, 2.
BO.	Sodium Citrate IP. (INJ Grade) PKD in Ploybag in Plastic Bottles.	Powder	1, 2,
91.	Bottle-Approx 72 mm Dia 165mm HT. 38.5mm Screw neck USP Type 1.	Glass Bottle	1, 2
82.	Bottle-Approx 77.5mm Dia 210mm HT 38.5mm screw neck USP Type1.25 Bottle in CBB with HCP. Overflow capacity 665ml USP.	Glass Bottle	1, 2
83.	Cap Screw Aluminium with Centre open for manual srew sealing screw (Neck Bottles to fixing the rubber plugs USP (Packing in C28)	Closure Screw	1, 2
94.	Foil Seals Aluminium Assorted colours for fixing and sealing over both screw type and sealing Type Aluminium Caps (Packing in CBB with Embosemen T "Government of Karnataka".	Closure	1, 2
85.	Rubber Plugs for 540ml USP Type-1 Bottles of smooth surface alround with one hole for infusion needle and other for air inlet on top ISI packing in polybag in corrugated CBB.	Closure	1, 2
S6.	Sodium Iodide 1% Solution W/V (Disinfectant and Bactericidal Packed in CBB)	Liquid	· · ·
	IV Cannula Set (made of Teflon) Hinge Type biway connection at the top.; Sizes 14, 16, 18, 20, 22 Gammairradiation certificate from B.A.R.C./K.M.I.G. Packing in CBB.	Appliance	
	Autoclave Indicator Labels 2.5cms X 5cms	Labels	

51.	Item Name	Formulation	Levels
No.	(1)	(2)	(3)
89.	Skin Contact Jelly	Jelly	1, 2
	Ultra Sound		
90.	Sterilised Surgical Suture	왕병 그는 그는 이번 나가를 받았다. [1] 이 이번 들어요?	
	Plain Catgut 2/0 USP.	Suture	1, 2
91.	Sterilised Surgical Suture		
	Plain Catgut 1/0 USP.	Suture	1, 2
92.	Sterilised Surgical Suture		
	Plain Catgut 1 USP.	Suture	1, 2
93.	Sterilised Surgical Sutury	- 1	
	Plain Catgut 2 USP.	Suture	1, 2
94.	Sterilised Surgical Suture	Suture	1, 2
	Plain Catgut 3 USP.	outure	****
		등이 하는 점점 가는 경쟁을 맞춰서 받아 살았다.	
95.	Sterilised Surgical Suture	Suture	1, 2
	Chromic Catgut 3/0 USP.	Jacar =	
-5.	Sterilised Surgical Suture		
٠.	Chromic Catqut 2/0 USP.	Suture	1, 2
	Chromite Catgat 270 do.		
97.	Sterilised Surgical Suture		
	Chromic Catqut 1/0 USP.	Suture	1, 2
	Bill Smite Sdegate 17 to 32.		
98.	Sterilised Surgical Suture		
	Chromic Catgut 1 USP.	Suture	1, 2
99.	Sterilised Surgical Suture		
	Chromic Catgut 2 USP.	Suture	1, 2
100.	Sterilised Surgical Suture		
	Straight Needle Chromic 2/0	USP. Suture +Needle	1, 2
	Round Body 60mm.		
101.	Sterilised Surgical Suture		
	Straight Needle Chromic 2/0	Suture + Needle	1, 2
	Round Body 45mm USP.		
102.	Sterilised Surgical Suture		
	Straight Needle Chromic 2/0	Suture + Needle	1, 2
	Round Body 60mm USP.		
107	Ctomiliand Cumpies! Cuture		
103.	Sterilised Surgical Suture Straight Needle Chromic 1/0	Suture + Needle	1,2
	Round Body 45mm USP.		

	Item Name (1)	Formulation (2)	Levels (3)
104.	Sterilised Surgical Suture Curved Needle Chromic 4/0 Round Body 16mm USP.	Suture + Needle	1, 2
105.	Sterilised Surgical Suture Curved Needle Chromic 3/0 Round Body 22mm USP.	Suture + Needle	1, 2
106.	Sterilised Surgical Suture Curved Needle Chromic 2/0 Round Body 65mm USP.	Suture + Needle	1, 2
107.	Sterilised Surgical Suture Curved Needle Chromic Z/O Round Body 45mm USP.	Suture + Needle	1, 2
. 3.	Sterilised Surgical Suture Curved Needle Chromic 2/0 Round Body 30mm USP.	Suture + Needle	1, 2
7.	Sterilised Surgical Suture Curved Needle Chromic 1/0 Round Body 45mm USP.	Suture + Needle	1, 2
110.	Sterilised Surgical Suture Curved Needle Chromic 1/0 Round Body 30mm USP.	Suture + Needle	1, 2
	Sterilised Surgical Suture Curved Needle Chromic 1 Round Body 45mm USP.	Suture + Needle	1, 2
	Sterilised Surgical Suture Curved Cutting Needle Chromic 1 60mm USP.	Suture + Needle	1, 2
	Sterilised Surgical Suture = Curved Cutting Needle Plain 4/0 16mm USP.	Suture + Needle	1 g 2
(Sterilised Surgical Suture Curved Cutting Needle Plain 3/0 16mm USP.	Suture + Needle	1, 2
	Sterilised Surgical Suture Curved Rev. Cutting Needle Chromic 6/0 Round Body 8mm USP.	. Suture + Needle	1, 2

31.			
No.	[] [] [[[[[[[[[[[[[[[[[Formulation (2)	Levels (3)
116	. Sterilised Surgical Suture Curved Blunt Needle Chromic 1 Round Body 63mm USP.	Suture + Needle	1
117.	Sterilised Surgical Suture 1/2 Circle Chromic 1 Heavy 45mm Needle USF.	Suture + Needle	1, 2
118.	Sterilised Surgical Suture 1/2 Circle Trocar Point 1 40mm Needle USP.	Suture + Needle	1, 2
119.	Sterilised Surgical Suture 1/2 Circle Trocar Point Cutting 2 Chromic 40mm Heavy Needle USP.	Suture + Needle	1, 2
120.	Sterilised Surgical Suture 1/2 Circle Round Body 1/0 Chromic 40mm Heavy Needle USP.	Suture + Needle	1, 2
121.	Sterilised Surgical Suture 1/2 Circle Round Body 3/0 Chromic 25mm Needle USP.	Suture + Needle	1, 2
122.	Sterilised Surgical Suture 1/2 Circle Round Body 2/0 Chromic 45mm Needle USP.	Suture + Needle	1, 2
123.	Sterilised Surgical Suture 1/2 Circle Round Body 1/0 Chromic 45mm Needle USP.	Suture + Needle	1, 2
124.	Sterilised Surgical Suture 1/2 Circle Round Body 1/0 Chromic 30mm USP.	Suture + Needle	1, 2
125.	Sterilised Surgical Suture 1/2 Circle Mayo's Chromic 1/0 45mm Heavy Needle USP.	Suture + Needle	1, 2
126.	Sterilised Surgical Suture 1/2 Circle Reverse Cutting Chromic 50mm Needle USP.	Suture + Needle	1, 2
	Sterilised Surgical Suture 1/2 Circle Reverse Cutting and Round Body 2/0 Chromic 36mm Needle USP.	. Suture + Needle	1, 2

91. 90.	Item Name (1)	Formulation (2)	Levels (3)
			- Complete
129.	Sterilised Surgical Suture 5/8 Circle Round Body Chromic 1/0 55mm Needle USP.	Suture + Needle	1, 2
129.	Sterilised Surgical Suture 3/8 Circle Round Body Chromic 1/0 45mm Needle USP.	Suture + Needle	1, 2
130.	Sterilised Surgical Suture 8/0 60mm Curved Micro Point USP. Round Body 45mm USP.	Suture + Needle	1
131.	Black Virgin Silk, Spatulated 8/0 60mm Curved Micro Point Double Needle USP.	Suture + Needle	1
~~?.	Black Virgin Slik, Spatulated 8/0 60mm Curved Micro Point Double Needle USP.	Suture + Needle	1
133.	Mersilk Black Braided Silk 4/0 16mm Curved Round Body Needle USP.	Suture + Needle	1, 2
134.	Virgin Black Braided Silk 8/0 8mm 1/2 Circle Reverse Cutting Micro Point Needle USP.	: Suture + Needle	1, 2
135,	Mersilk Blck Braided Silk 6/0 2mm 1/4 Circle Spatulated Micro Foint Needle USF.	Suture + Needle	1, 2
136.	Mersilk Black Braided Silk 4/0 20mm 1/2 Eircle Round Body Needle USP.	. Suture + Needle	1, 2
137.	Mersilk Black Braided Silk 3/0 25mm 1/2 Circle Round Body Needle USF.	Suture + Needle	1, 2
38.	Mersilk Black Braided Silk		
	2/0 30mm 1/2 Circle Round Body Needle USP.	Suture + Needle	1,2
	Mersilk Black Braided Silk 1/0 30mm 1/2 Circle Round Body Needle	Suture + Needle	1 7
	USP.	adtare + Needle	1, 2
	Mersilk Black Braided Silk 2/O 50mm 1/2 Straight Round Body Needle USP.	Suture + Needle	1, 2

Z * T	albaaN + andiu2 į́	Synthetic Absorbable Suture 3/O 17mm IVZ Circle Taper Cut 9/eedle USP.	
z 'ı	Suture + Meedle	Synthetic Absorbable Suture 500 36mm 1/2 Circle Taper Cut Meedle USP.	.521
Σ , Ι	Suture + Needle	Synthetic Absorbable Suture 1 40mm 1/2 Circle Round Body Heavy Veedle USP.	.151
u fī	- Guture + Meedle	Synthetic Absorbable Suture 1/0 40mm 1/2 Circle Round Body Needle USP.	.021
Ζ 'Ι	aibaaN + ayutus	Synthetic Absorbable Suture 2/0 40mm 1/2 Circle Round Body Weedle USP.	.641
1, 2	Suture + Needle	Synthetic Absorbable Suture 4/0 16mm 1/2 Circle Tapercut Heavy Needle USP.	148°
1, 2	- Suture + Needle	Braided mersilelne Suture 2/0 30mm 1/2 Circle Round Body Needle USP.	• \(\p \) [
Z- ' I	- Suture + Needle	Braided Coated Mersilelne Suture 4/0 8mm 1/4 Circle Micro Point Spatulated Needle USP.	•9 5 1
_ 'I	Suture + Needle	Braided Mersilelne Suture 5/0 8mm 1/4 Circle micro Point Spatulated Double Needle USP.	•StI
Z 'I	Suture + Needle	Sutupak Pre Cut Suture in Sterile over wrap packs 3/0 10 X 75cms USP.	.144.
7 ° I	Sufure + Needle	Sutupak Pre Cut Suture in Sterile over wrap packs 1 X Z X 75cms USP.	142.
Z 'ī	Suture + Needle	Sutupak Pre Cut Suture in Sterile over wrap packs 2/0 X 2 X 75cms USP.	. 541
Zʻʻt	Suture + Needle .	Green Size Z, Coated Braided Polyester with 45mm Heavy Tapercut Needle USP.	. 141
(5)	(Z)	(1)	.on

[S[ava]

Formulation

Item Name

51. No.	[[일이 [[일이 아니다] 이 [1] [[일이 [[일이 [[] [[] [[] [[] [[] [[] [[] [[] [[] [[Formulation (Z)	Levels (3)
154	 Synthetic Absorbable Suture 1/0 40mm 1/2 Circle Taper Cut 		
	Needle USP.	Suture + Needle	1, 2
155	 Synthetic Absorbable Suture Violet Size 1 90cms 1/2 Circle, 40mm Tapercut Heavy Needle USP. 	Suture + Needle	
156	. Synthetic Absorbable Suture	ontale 4 Weedle	1, 2
	Violet Size 1 90 cms 1/2 Circle, Reverse Cutting 45mm Heavy Needle USP.	Suture + Needle	1, 2
157	 Synthetic Absorbable Suture Violet Size 4/0 70cms1/2 Circle Round Body 16mm Needle USP. 		
		Suture + Needle	1, 2
3.	Synthetic Absorbable Suture Violet Size 5/0 45cms 1/2 Circle Round Body 16mm Double Needle USP.	Suture + Needle	1, 2
159.	Synthetic Absorbable Suture Undyed Braided Size 2/0 76cms Straight Cutting 60mm Needle USP.	Suture + Needle	i, 2
160.	Monofilament Nylon Suture 10/0 6mm curved Spatulated Micro Point		
	Needle USP.	Suture + Needle	1
61.	Monofilament Nylon Suture 10/0 6mm 3/8 Circle Spatulated Micro Point Double Needle USP.	Suture + Needle	1
62.	Monofilament Nylon Suture 8/0 8mm Curved Reverse cutting Micro Point	and the same states and the same states are sa	
	Needle USP.	Suture + Needle	1 .
٠	Monofilament Polymade Suture \$/0 12mm Curved Reverse Cutting Needle		
	usp.	Suture + Needle	1, 2
64 .	Monofilament Polymade Suture 2/0 45mm Curved Reverse Cutting Needle USP.		
		Suture + Needle	1, 2
65.	Monofilament Polymade Suture 3/0 26mm Curved Cutting USP.	Suture + Needle	1, 2
56.	Monofilament Polymade Suture		
	1/O 40mm 1/2 Circle Round Body (Loop Suture) Needle USP.	Suture + Needle	1, 2
The Part of the Pa			The state of the s

51. No.	Item Name (1)	Formulation (2)	Levels (3)
167.	Monofilament Polymade Suture 1 50mm 1/2 Circle Round Body Heavy (Loop Suture) Needle USP.	Suture + Needle	1, 2
168.	Monofilament Polymade Suture 1/0 40mm 1/2 Circle Heavy Needle USP.	Suture + Needle	1, 2
169.	Monofilament Polymade Suture 1 40mm 1/2 Circle Heavy Needle USP.	Suture + Needle	1, 2
170.	Monofilament Polymade Black Size 1, 100cms 1/2 Circle Reverse, Cutting, 500mm·Heavy Needle USP.	Suture + Needle	i, 2
171.	Polypropylene Mesh Size 6cm * 11cm	Mesh	1,
172.	Polypropylene Mesh Size 15cm * 15cm	Mesh	1, 2
173.	Polypropylene Mesh Size 30cm * 30cm	Mesh	1
174.	Monofilament Prolene Suture 6/0 13mm Curved Round Body Double Needle USP.	Suture + Needle	1, 2
175.	Monofilament Prolene Suture 3/0 22mm curved Cutting Needle USP.	Suture + Needle	1, 2
176.	Monofilament Prolene Suture 2/0_25mm Taper Cut Needle (90cms Suture) USP.	Suture + Needle	1, 2
177.	Monofilament Prolene Mesh 17cms X 11cms USP.	Meish	1,,
178.	Monofilament Prolene Mesh 8.5cms X 11 cms USP.	Mesh	1, 2
179.	Monofilament Prolene Suture 2/0 17mm 1/2 Circle Taper Cut Needle USP.	Suture + Needle	1, 2
180.	Monofilament Prolene Suture 1/0 25mm 1/2 Circle Taper Cut Needle USP.	. Suture + Needle	1, 2

 51. No.	Item Name (1)	Formulation (2)	Levels (3)
X-RAY			
181.	Barium Sulphate - Compound IF.	Powder	1, 2
182.	Barium Sulphate Suspension 95% W/V (Micropaque Suspension for Double Contrast for Gastro Intestinal Tract) IP/BP.	Suspension	1, 2
183.	Sodium Meglumine Amidotrizoate (Iodine Content 60% USP) (10 AMPS IN CB8)	Injection	1, 2
184.	Sodium meglumine Amidotrizoate (Iodine Content 76% USP) (10 AMPS IN CBB)	Injection	1, 2
185.	Iohexol 10ml 180mg/ml (25 AMPS IN CBB WITH HCP)	Injection	1,2
186.	Ichexol 10ml 240mg/ml (25 AMPS IN CBB WITH HCP)	Injection	1, 2
187.	Iohexol 10ml 300mg/ml (25 AMPS IN CBB WITH HCP)	Injection	1, 2

NOTE :

- 1. Items No. 52 to 76 will be in use where Dental Surgeon is available.
- 2. Items No. 77 to 87 will be in use where Intravenous fluid preparation facility is available.
- 3. Items No. 130 to 140 will be in use where Eye/ENT/Plastic Surgery facilities are available.
- 4. All suture material have expiry dates.

 Check for some on indenting and on regular basis.
- Needles and suture material when bought separately are more economical and useful to the surgeons who can use without wasting.
- 7. All synthetic suture material are rarely used and very expensive and need to be given to individual surgeon who use them for accounting. They are not economical to be purchased and stored.

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III. LABORATORY CHEMICALS

- 01. Acetic Acid 1% IP
- 02. Benedict's qualitative reagent
 (20 Bots. in a CB box with Honeycomb partition NFI
- 03. Benedict's quantative solution reagent
- 04. Xylene pure.
- 05. Chloroform A.R.
- 06. Acetone Extra Pure
- 07. Paraffin Wax MP 58 degree C to 60 degree C
- 08. Potassium Aluminium Sulphate purified
- 09. Haematoxyllin
- 10. Mercuric Chloride purified
- 11. Eosin
- 12. Bismack Brown
- 13. Light Green
- 14. Potassium Iodine IP.
- 15. Formaldehyde
- 16. Gold Chloride 1gm
- 17. Activated Charcoal
- 18. Sodium Bicarbonate
- 19. Glacial Acetic Acid
- 20. Methylene Blue .
- 21. Gentian Violet
- 22. Sodium Chloride
- 23. Carbol-Fuschin
- 24. Glycerine
- 25. Sodium Meta-Bisulphate

- 26. Fotassium Hydrogen Ortho Phosphate
- 27. Sodium Hydrogen Ortho Phosphate
- 28. Potassium Di-chromate
- 29. Concentrated Sulphuric Acid
- 30. Concentrated Nitric Acid
- 31. Tri-Sodium Citrate
- 32. Orange-G
- 33. Schiff Reagent
- 34. Neutral Red
- 35. Sudan III
- 36. Mercuric Oxide
- 37. Sodium Thiosulphate
- 38. Iodine
- 39. Alcian Blue
- 40. Phospho-tungstic Acid
- 41. Liquid Paraffin
- 42. DPX Mountant
- 43. Liquid Ammonia
- 44. Concentrated Hydrochloric Acid
- 45. Sulpho Salicylic Acid
- 46. Sodium Nitro Prusside
- 47. Thrombokinase 10 mg Tablet
- 48. Silver Nitrate
- 49. Egg Albumin Flakes
- 50. Potassium Hydroxide

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A Service subject A Se	(1) (2)	(3)	(4)	(5)	(6)	(7)		COCCULTAL BRIDGE LIGI	N				
Appende Subject Appende Su								255ENTHE DROOM CIST : Prep	pared by Commi	unity Hea	1th Cell for	Govt. of K	Carnatak
Appellation	1. Atronine sulphate			*				·			1.5.15	C	Othora
Procing Particles 1-25 1				0.6mg/ml				•					
MIT-PRICE 1984 19						4g/10ml (powder)	(1)						
Activation				0.5g powd. in vial				ANAESTHETICS					
Activation Company C													
Manufacture 1000g	Anti-helminthic						. I.	Ether, Anaesthetic					Inhala
Activamental Acti	1. Mebendazole	100en					2.	Halothane					Inhala
Referentiate		,			100mg/5ml		. 3.	Thiopental			0.5g amp		
Art	200					4.	Nitrous Oxide					Inhal	
Activated Acti	T. New Milastole	200 m g 400mg			100mg/5ml	x =	5.	Oxygen	(Refer Emerger	icy Drugs)			
Procedure Practities	Anti bacterial		(4)										
	1. Benzyl Pencillin	2 5		500000U/via1				ANALGESIC/ANTIPYRETICS					
Semanthine Peecilling				1000000U/vial									
Servettine Percetting	2. Procaine Pencillin						1.	Paracetamol	500mg.	4	300mg./2ml.amp	125mg/5ml	
	3. Benzathine Pencillin						2.	Aspirin	300ag				
				1200000U/vial			3.	Ibuprofen				100	
Daysone Days	4. Intereselies			2400000U/vial					400æg				
Colorasphenical 250g 1g/vial 150g/Sal 150g/Sal 150g/Sal 160g/Sal 160g/Sa			250mg				4.	Indomethacin		25 a g			
			100mg				5.	Pentazocine Lactate	25mg		30mg/m1		
		*	250mg -	1g/vial	150mg/5ml		5.	Pethidine			50mg/ml		
1. 1. 1. 1. 1. 1. 1. 1.		T.80mg+S.400mg			T.40ag+S.200ag/5ml								
250 ag 100 ag/vial 125 ag/5al 250 ag 250 ag / vial 125 ag / 5al 250 ag 250 ag / vial 125 ag / 5al 250 ag 250 ag / vial 125 ag / 5al 250 ag 250 ag / vial 125 ag / 5al 250 ag 250 ag / vial 125 ag / 5al 250 ag 250 ag / vial 125 ag / 5al 250	**	250 mg			125ag/5al								•
10. Aspicillin 250mg 250mg/vial 125mg/5ml 12	Poxycillin		250ag	100mg/vial			1.	Chlorpheniramins maleate					
### 1. Dapsone	10. Ampicillin		250 o g				2.	Procethazine	102g 23mg	ja	25ag/#1	5mg/5ml	
1. Dapsone 25mg 50mg 100mg 25mg 200mg/ml 25mg 200mg/ml 25mg 200mg/ml 25mg 25			1950	1 2				Adrenalina			l in 1000, 1ml amp		
25mg 50mg 1. Phenobarbitone 30mg 200mg/ml 50mg 30mg 50mg/ml 50mg 5									0 Sen				
1. Phenobarbitone 3.0ag 2.00mg/ml 3.00ag 3. Phenobarbitone 3.0ag 5.0ag 5.0	1. Dapsone	25mg 50mg					4.		vapay		1097-19 201 1101		
1. Phenobarbitone 300g 2009941 300g	100mg				524								
Song 2. Diazepan Song 2. Diazepan Song/al 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	2. Rifampicin		150mg				1.	Phenobarbitone	30eq		200mg/m1		
100mg 2. Diazepan 10mg 3. Phenyl Sodium 100mg 4. Carbamazepine 100mg	S. Clofaziaine								50 ag			- Latera x	
3. Pheny! Sodium 100mg 50mg/ml 100mg/4ml 4. Carbamazepine 100mg	ALLIYATINE		50mg 100mg				2.	Diazepan	10ag		5mg/al	2mg/5ml	*
4. Carbamazepine 100mg							3.	Phenyt Sodius			50mg/ml	100ag/4al	
				-9-		. ^ :			200ng	- 1 -			

						:1	(2)	(3)	4) (5)	(6)	(7)
	•						Anti-hypertensive				
•	(1) (2)	(3)	(5)	(6)	(7)	1.	Hydrochlorothiazide	5039	30		
	ANTI-TUBERCULAR				ME	2.	Reservine	0.109			
		* ==				3.	Hydralazine	25mg			
1	1. INH	100mg				4,	Alenolal	50 ag			•
2	2. Streptomycin		1g/vial					100mg			
3	5. Thioacetazone	150mg					Cardiac glycoside				
4	. Rifampicin	(Refer Anti-Leprosy)				1.	Digoxin	0.25mg	0.25mg/ml		
5	. Ethambutol	200mg 400mg					DIUREFICS				
	(Please see National Tuberculosis Cont treatment of Tuberculosis)	rol Programme & banned combinati	ions in the			1.	frusemide	40ag	idag/al		67
	ANTI-FILARIAL					2.	Scironolactone	25mg -			
	HATT-FICHRIHE				E T	3.	Hannitol	* * * * * * * * * * * * * * * * * * *	20% infusion		*
1.	. Di-ethyl carbamazine	5^ · · g		120mg/5ml			GASTRO INTESTINAL				
	ANTI-FUNGAL						Antacids				
1.	Griseofulin	125#g				1.	Aluminium Hydroxide	250mg			
2.	Amphotericin 8		50ag/vial			Ž.	Magnesium Trisilicate	500mg			
	ANTI-MALARIAL					3.	Kanitidine	150ay	25mg/m1		
	Chloroquin						Anti-emetics				
	15 60	100mg base	40mg/ml			1.	Metoclopramide	10mg	5mg/ml	5mg/5ml	
	Primaquin	2.5mg				7.	Crongtharing	(Pefer Anti Allergics)			
	Sulfadoxin/Pyremethamine	S.500mg+P.25mg					Briti sparsodic				
	Quinine Sulphate	300mg	300mg/amp			1.	Atropine sulphate (Refer Anitdotes)	0.5mg	0.6mg/ml		
	HAEHOPOIETIC					2. (Dicyclomin	Lûng			
E	rrous Sulphate+Folic Acid	200mg+0.5mg				3. F	romethazine (Rofer Anti-Allergics)				
2.	Ferrous Fumarate Folic Acid	150mg+2.5mg		2		1	HILL-DIARRHURALS				
3.	Folic Acid	5mg				121 22					
	CARDIOVASCULAR						PS Peckets (MM) Forgula)				
						2. 1	operamide Hydrochloride (not for children)	2mg			
	Anti-anginal .			2 ₂			AKATIVES				
	Isosorbide Nitrate	10mg					NIS TO				
2.	Propranolal	10ag 40ag					spaghula husk				Granules
		TAMPY					eraffin, liquid				Liquid by so
		2,				3. 6	ycerine				Suppositor,

	¿. Uzytócin		I. Methergin	0.0181840.2	1. Codeine Phosphate	Anti-tussive	0.539:0		4. Terbutaline	3. Salbutamol	2. Fainophylline	1. Deriphylline	Record and the sales		RESPIRATORY	5. Brazepan (Refer Anti-Epileptics)	z. Uniorpromazine			STORY DESCRIPTION	ülibenclamide	1. insulin (Flain) Insulin (Lente)		ARTH DEARETTE	5. Cerespethenene (Befor John Sittergies)	2. Hydrocortisone sedium succinate	1. Frednisolone	House s	(a) (b)
			0.75mg		,10°-9			g eg	2.5*0	Zmg Amg	[-90mg	100mg		*			10ag 25ag	3	2		Çoğ			v 4	n, ^aya		5eq 10eq		5
	10 IU/al		0.200/01						0.5*0/*1		25 - g/ - 1	110mg/ml				8	25mg/ml					10/100			4og/al	Z5+g/m1			(1) (5)
										249/5m1		69#g/5#1															¥	X X	(8)
				8			Inhalation									3													9
		3. Humatropine	2. Filocarpine	1. Tetracyclina	CAE PLOTES		9. Worfloxacin	8. Doxycyclin	7. Penirillins	6. Kiconazole (pintment)	5. Gentian Violet	4. Neonycin+Bacitracin	3. Renzyl Renzoate (emulsion)	Whitfield (ointment)	I. Inc Ocide (pintmont)			3. Vitamin B complex	2. Vitamin A	I. Ascorbic Acid	VITANINS/NINERALS	6. Fotassium Chloride	5. I.V. Sodium Bicurbonate	4. I.V. Molar Lactate	3. I.V. Dextrose+Saline	2. I.V. Sodium Chloride	1. I.V. Dextrose	REHYDRATION ACID BASE ELECTROLYTE balance	(1) (2)
							400mg	(Refer Anti-Bacterials above)	(Refer Anti-Bacterials above)									Yes	PI 00005	100mg								Ebalance	(3)
								ials above)	rials above)								***	Yes	50000 TU										(4)
			*															Yes	50000 10/#1				7.5% in 10s1/25ml amp	500al	D.5%+S.0.9% in 500ml	0.9% in 500ml	5%,10% in 500ml 25%,50% in 25ml		(5)
																		Yes											(6)
0.4% (drups)	17 (nintant	1% (drops)	II (draps)	IX (pintment					k2 -,	2% (aintsen	1% solution	Powder, Oin	25% (eaulsi	2% (ointmen	2% (ointmen							3g/30ml (c				146			(I)

16. AChesive Playter, I., 2., 4. rolls 16. Elascherese bindags, 2., 4. rolls 16. Surgical Spirit 17. Drip set: administration: fluid, blood 18. Cannols, IV for venesection, 16, 19, 22 and passistric sizes 18. Springs 20. Catheters, plain, 3, 6, 9 Catheters, foliary, 18, 18, 20 21. Bleaching powler VACCIORS 4 Scale	11. violes, singical, 6, 84//2, /	Trans. Supplied to 111/2	19. Hypodermic Needles	Suture Reedles	black braided Silk - 1, 1.0, 2, 2.0, 3, 3.0 Mersilk - 1.0, 2.0, 4.0 Catgut, plain - 1, 1.0, 2, 2.0, 3, 3.0 Catgut, chroad: - 1, 1.0, 2, 2.0, 3.0 Frolene, atrawatic - 1, 1.0, 2.0, 3.0 Vicryl - 5.0, 4.0, 3.0 Cotton thread	Sutures	Butterfly (scalp) venesets, 18, 21, 24	Bandage	Gaure, small & large	Absorbent Cotton	Nydrogen peroxide	Water for injection Ampules	ACCESSORIES	12. Frachestowy set, 24, 27, 30, 36	(1. Hoginstina culphate (Refer Antidotes) . Soz in amp	10. Hammitol (Refer Divretics) 20% in 350ml		8. Adveraline (Refer Anti-Allergics) 1 in 1000/ml amp	/. Fralidorime (Refer Antidotes) 0.5g powd./vial	Sodium Bicarbonate (Refer Rehydration)	5. Atropine (Refer in Antispasmodics)	4. Lignocaine IX , 21	3. Hydro cortisone (Refer Hormones)	2. Dopawine 200mg/5ml	 Oxygen cylinders on trolleys, with flow meters and mask 		ENFORTANT DOUBLE	à
										4% W/V Liquid	6% Solution				8					21								
마음 사람들이 사람들이 하는 사람들이 되었다. 생각이 되었다면 살아 하는 것은 이 회에 가장 하는 것은 것이다.	100	→									This list has been prepared using the following lists for reference	As needed	DIAGNOSTIC AGENTS		Anti Rabies Serue		VHULING & SEKR	Mechanical areas	21. Bleaching powder	20. Catheters, plain, 3, 6, 9 Catheters, Foley's, 8, 12, 16, 20	14. Syringes	18. Cannola, IV for venesection, 16, 19, 22 and paediatric sizes	iv urip sec : administracion: fluid, blood	io ourqueal spirit	15. Plaster of Paris	14. Elastucrepe bandage, 2', 4' rolls	13. Adhesive Plaster, I", 2", 4" width	(1) (2) (3) (1)

(6)

9

12. Ryles Tubes

25.2 ANTITUSSIVES

°dextromethorphan

oral solution, 3.5 mg (bromide)/5 ml

26.3 MISCELLANEOUS

water for injection

2-ml, 5-ml, 10-ml ampoules

Section 26:

Solutions correcting Water, Electrolyte and Acid-base Disturbances

26.1 ORAL

oral rehydration salts (for glucoseelectrolyte solution)

for composition see section 17.7.1

potassium chloride

powder for solution

26.2 PARENTERAL

glucose

injectable solution, 5% isotonic, 10% isotonic, 50% hypertonic

glucose with

sodium chloride

injectable solution, 4% glucose, 0.18% sodium chloride (equivalent to Na* 30 mmol/l CI- 30 mmol/1)

potassium chloride (2)

11.2% solution in 20-ml ampoule, (equivalent to K* 1.5 mmol/ml, Cl- 1.5 mmol/ml)

sodium chloride

injectable solution, 0.9% isotonic (equivalent to Na. 154 mmol/l, CI- 154 mmol/l)

sodium hydrogen carbonate

injectable solution, 1.4% isotonic (equivalent to Na* 167 mmol/l, HCO, 167 mmol/l)

8.4% solution in 10-ml ampoule (equivalent to Na* 1000 mmol/l. HCO₃- 1000 mmol/l)

° compound solution of sodium lactate

injectable solution

Section 27: Vitamins and Minerals

ascorbic acid

tablet, 50 mg

ergocalciferol

capsule or tablet, 1.25 mg

(50 000 IU)

oral solution,

250 μg/ml (10 000 IU/ml)

iodine (8)

iodized oil, 1 ml (480 mg iodine), 0.5 ml (240 mg iodine) in ampoule (oral or injectable)

solution, 0.57 ml, (308 mg iodine)

in dispenser bottle capsule, 200 mg

°nicotinamide

tablet, 50 mg

pyridoxine

eretinol.

tablet, 25 mg (hydrochloride)

sugar-coated tablet, 10 000 IU (as palmitate) (5.5 mg)

> capsule, 200 000 IU (as palmitate) (110 mg)

oral oily solution, 100 000 IU/ml in multidose dispenser (as palmitate)

water-miscible injection, 100 000 IU (as palmitate) (55 mg) in 2-ml ampoule

riboflavin

tablet, 5 mg

°sodium fluoride

in any appropriate formulation

thiamine

tablet, 50 mg (hydrochloride)

Complementary drug

calcium gluconate (C) (2, 8)

injection,100 mg/ml in 10-ml ampoule

The following changes in the WHO Model List were approved by the WHO Expert Committee on the Use of Essential Drugs which met in December 1999. The report of the meeting will be published in the WHO Technical Report Series.

Deletions:, albumin (human); antiscorpion sera.

Additions: acetylcysteine; rifampicin + isoniazid + pyrazinamide + ethambutol; nevirapine; artesunate; chlorambucil; daunorubicin; ethanol; iohexol.

Replacements: fluconazole to replace ketoconazole; prazosin to replace doxazosin.

Example of a therapeutic group. Various drugs can serve as alternatives.

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Essential Drugs

WHO Model List (revised December 1999)

Section 1: Anaesthetics

1.1 GENERAL ANAESTHETICS AND OXYGEN

ether, anaesthetic (1c) (2)

inhalation

halothane (2)

inhalation

ketamine (2)

injection, 50 mg (as hydrochloride)/ml in 10-ml vial

in 10-mi viai

nitrous oxide (2)

inhalation

°thiopental (2)

oxygen

inhalation (medicinal gas) powder for injection, 0.5 g, 1.0 g

(sodium salt) in ampoule

7-

1.2 LOCAL ANAESTHETICS

°bupivacaine (2, 9)

injection, 0.25%, 0.5% (hydrochloride) in vial

injection for spinal anaesthesia, 0.5% (hydrochloride) in 4-ml ampoule to be mixed with 7.5% glucose solution

°lidocaine

injection, 1%, 2% (hydrochloride) in vial

injection, 1%, 2% (hydrochloride) + epinephrine 1:200 000 in vial

injection for spinal anaesthesia, 5% (hydrochloride) in 2-ml ampoule to be mixed with 7.5% glucose solution

topical forms, 2-4% (hydrochloride)

dental cartridge, 2% (hydrochloride) + epinephrine 1:80 000

Complementary drug

ephedrine (C)

injection, 30 mg

(For use in spinal anaesthesia (hyd during delivery to prevent hypotension)

(hydrochloride)/ml in ion) 1-ml ampoule

e Example of a therapeutic group. Various drugs can serve as alternatives.

Explanatory Notes

When the strength of a drug is specified in terms of a selected salt or ester, this is mentioned in brackets; when it refers to the active moiety, the name of the salt or ester in brackets is preceded by the word "as".

Many drugs included in the list are preceded by a box (°) to indicate that they represent an example of a therapeutic group and that various drugs could serve as alternatives. It is imperative that this is understood when drugs are selected at national level, since choice is then influenced by the comparative cost and availability of equivalent products. Examples of acceptable substitutions include:

- ^a Hydrochlorothiazide: any other thiazide-type diuretic currently in broad clinical use.
- Hydralazine: any other peripheral vasodilator having an antihypertensive effect.
- Senna: any stimulant laxative (either synthetic or of plant
- Sulfadiazine: any other short-acting, systemically active sulfonamide unlikely to cause crystalluria.

Numbers in parentheses following drug names indicate: (1) Drugs subject to international control under: (a) the Single Convention on Narcotic Drugs (1961); (b) the Convention on Psychotropic Substances (1971); or (c) the United Nations Convention against Illicit Traffic in Narcotic Drugs and Psychotropic Substances (1988).

- (2) Specific expertise, diagnostic precision, individualization of dosage or special equipment required for proper use.
- (3) Greater potency or efficacy.
- (4) In renal insufficiency, contraindicated or dosage adjustments necessary.
- (5) To improve compliance.
- (6) Special pharmacokinetic properties.
- (7) Adverse effects diminish benefit/risk ratio.
- (8) Limited indications or narrow spectrum of activity.
- (9) For epidural anaesthesia.
- (10) Sustained-release preparations are available. A proposal to include such a product in a national list of essential drugs should be supported by adequate documentation.
- (11) Monitoring of therapeutic concentrations in plasma can improve safety and efficacy.

Letters in parentheses following the drug names indicate the reasons for the inclusion of *complementary drugs*:

- (A) When drugs in the main list cannot be made available.
- (B) When drugs in the main list are known to be ineffective or inappropriate for a given individual.
- (C) For use in rare disorders or in exceptional circumstances.
- (D) Reserve antimicrobials to be used only when there is significant resistance to other drugs on the list.

Drugs are listed in alphabetical order.

1.3 PREOPERATIVE MEDICATION & SEDATION FOR SHORT-TERM PROCEDURES

atropine injection, 1 mg (sulfate) in 1-ml ampoule chloral hydrate syrup, 200 mg/5 ml

odiazepam (1b) injection, 5 mg/ml in 2-ml ampoule tablet, 5 mg

omorphine (1a) injection, 10 mg (sulfate or hydrochloride) in 1-ml ampoule

opromethazine elixir or syrup, 5 mg (hydrochloride)/5 ml

Section 2: Analgesics, Antipyretics, Nonsteroidal Anti-Inflammatory Drugs (NSAIDs), Drugs Used to Treat Gout and Disease-Modifying Agents used in Rheumatic Disorders (DMARDs)

2.1 NON-OPIOID ANALGESICS & NSAIDs

acetylsalicylic acid tablet, 100–500 mg suppository, 50–150 mg

"ibuprofen tablet, 200 mg, 400 mg paracetamol tablet, 100–500 mg suppository, 100 mg syrup, 125 mg/5 ml

2.2 OPIOID ANALGESICS

°codeine (1a) tablet, 30 mg (phosphate)
°morphine (1a) injection, 10 mg (sulfate or hydrochloride) in 1-ml ampoule

oral solution, 10 mg (hydrochloride or sulfate))/5 ml

tablet, 10 mg (sulfate)

Complementary drug

°pethidine (A) (1a, 4) injection, 50 mg (hydrochloride) in 1-ml ampoule

tablet, 50 mg, 100 mg (hydrochloride)

2.3 DRUGS USED TO TREAT GOUT

allopurinol (4) tablet, 100 mg colchicine (7) tablet, 500 µg

2.4 DISEASE-MODIFYING AGENTS USED IN RHEUMATIC DISORDERS

azathioprine (2) tablet, 50 mg
chloroquine (2) tablet, 100 mg, 150 mg
(as phosphate or sulfate)
cyclophosphamide (2) tablet, 25 mg
methotrexate (2) tablet, 2.5 mg (as sodium salt)
penicillamine (2) capsule or tablet, 250 mg
sulfasalazine (2) tablet, 500 mg

Section 3: Antiallergics and Drugs Used in Anaphylaxis

°chlorphenamine tablet, 4 mg (hydrogen maleate) injection, 10 mg (hydrogen maleate) in 1-ml ampoule °dexamethasone tablet, 500 µg, 4 mg injection, 4 mg dexamethasone phosphate (as disodium salt) in 1-ml ampoule epinephrine injection, 1 mg (as hydrochloride or hydrogen tartrate) in 1-ml ampoule hydrocortisone powder for injection, 100 mg (as sodium succinate) in vial °prednisolone tablet, 5 mg

Section 4: Antidotes and Other Substances Used in Poisonings

4.1 NON-SPECIFIC ocharcoal, activated

ipecacuanha syrup, containing 0.14% ipecacuanha alkaloids calculated as emetine

4.2 SPECIFIC acetylcysteine injection, 200 mg/ml in 10-ml vial atropine injection, 1 mg (sulfate) in 1-ml ampoule calcium gluconate (2, 8) injection, 100 mg/ml in 10-ml ampoule deferoxamine powder for injection, 500 mg

powder

(mesilate) in vial

Example of a therapeutic group. Various drugs can serve as alternatives.

injection in oil, 50 mg/ml dimercaprol (2) in 2-ml ampoule tablet, 250 mg °p_L-methionine injection, 10 mg/ml methylthioninium chloride in 10-ml ampoule (methylene blue) injection, 400 µg (hydrochloride) naloxone in 1-ml ampoule capsule or tablet, 250 mg penicillamine (2) potassium ferric hexacyanopowder for oral administration ferrate(II) -2H,O (Prussian blue) injection, 200 mg/ml sodium calcium edetate (2) in 5-ml ampoule injection, 30 mg/ml sodium nitrite in 10-ml ampoule sodium thiosulfate injection, 250 mg/ml in 50-ml ampoule

Section 5: Anticonvulsants/ **Antiepileptics**

carbamazepine (10, 11) scored tablet, 100 mg, 200 mg injection, 5 mg/ml in 2-ml °diazepam (1b) ampoule (intravenous or rectal) capsule, 250 mg ethosuximide syrup, 250 mg/5 ml injection, 500 mg/ml magnesium sulfate in 2-ml ampoule and 10-ml ampoule tablet, 15-100 mg phenobarbital (1b. 11) elixir, 15 mg/5 ml capsule or tablet. phenytoin (7, 11) 25 mg, 50 mg, 100 mg (sodium salt)

enteric coated tablet, valproic acid (7, 11) 200 mg, 500 mg (sodium salt)

Complementary drug

scored tablet, 500 µg °clonazepam (B) (1b)

Section 6: Anti-infective Drugs

6.1 ANTHELMINTHICS

6.1.1 INTESTINAL ANTHELMINTHICS

albendazole chewable tablet, 400 mg levamisole tablet, 50 mg, 150 mg (as hydrochloride) ºmebendazole chewable tablet, 100 mg, 500 mg chewable tablet, 500 mg niclosamide tablet, 150 mg, 600 mg praziquantel chewable tablet, 250 mg pyrantel (as embonate) oral suspension, 50 mg (as embonate)/ml

6.1.2 ANTIFILARIALS

diethylcarbamazine tablet, 50 mg, 100 mg (dihydrogen citrate)

scored tablet, 3 mg, 6 mg ivermectin

Complementary drug

suramin sodium (B) (2, 7) powder for injection, 1 g in vial

6.1.3 ANTISCHISTOSOMALS AND OTHER ANTITREMATODE DRUGS

tablet, 600 mg praziquantel tablet, 250 mg triclabendazole

Complementary drug

capsule, 250 mg oxamniquine (C) (8) syrup, 250 mg/5 ml

6.2 ANTIBACTERIALS

6.2.1 BETA LACTAM DRUGS

capsule or tablet, 250 mg, °amoxicillin 500 mg (anhydrous)

> powder for oral suspension, 125 mg (anhydrous)/5 ml

powder for injection, 500 mg, ampicillin

1 g (as sodium salt) in vial

benzathine

powder for injection, 1.44 g benzylpenicillin benzylpenicillin (= 2.4 million IU) in 5-ml vial

powder for injection, benzylpenicillin 600 mg (= 1 million IU),

3 g (= 5 million IÚ) (sodium or potassium salt) in vial

injection, 50 mg

(sodium salt)/ml in 5-ml vial

Example of a therapeutic group. Various drugs can serve as alternatives.

°cloxacillin	capsule, 500 mg, 1 g (as sodium sal	t) °metronidazole	A-Eller con
W 4	powder for oral solution, 125 m	0	tablet, 200–500 mg
2 (d)	(as sodium salt)/5 m		injection, 500 mg in 100-ml vial
	powder for injection, 500 mg (as sodium salt) in via		suppository, 500 mg, 1 g
phenoxymethylpe	nicillin tablet, 250 mg		oral suspension, 200 mg (as benzoate)/5 ml
	(as potassium salt)	nalidixic acid (8)	tablet, 250 mg, 500 mg
	powder for oral suspension, 250 mg (as potassium salt)/5 ml		tablet, 100 mg
procaine benzylpe	enicillin powder for injection,	spectinomycin (8)	powder for injection, 2 g (as hydrochloride) in vial
Restricted indicati	3 g (= 3 million IU) in vial	sulfadiazine (4)	tablet, 500 mg
°amoxicillin + °clavulanic acid (tablet E00 105	°sulfamethoxazole +	injection, 250 mg (sodium salt) in 4-ml ampoule
ceftazidime (D)	powder for injection, 250 mg	trimethoprim (4)	tablet, 100 mg + 20 mg, 400 mg + 80 mg
°ceftriaxone (D)	(as pentahydrate) in vial powder for injection, 250 mg		oral suspension, 200 mg + 40 mg/5 ml
imipenem +	(as sodium salt) in vial		injection, 80 mg + 16 mg/ml in 5-ml and 10-ml ampoule
cilastatin (D)	powder for injection, 250 mg (as monohydrate) + 250 mg,	trimethoprim (8)	tablet, 100 mg, 200 mg
	(as sodium salt) 500 mg (as monohydrate) + 500 mg in vial (as sodium salt)	Complementary drugs	injection, 20 mg/ml in 5-ml ampoule
6.2.2 OTHER AN	TIBACTERIALS	chloramphenicol (C)	oily suspension for injection,
°chloramphenicol (7			0.5 g (as sodium succinate)/ml in 2-ml ampoule
	oral suspension, 150 mg (as palmitate)/5 ml	clindamycin (B) (8)	capsule, 150 mg
	powder for injection, 1 g (sodium succinate) in vial	Restricted indications	injection, 150 mg (as phosphate)/ml
°ciprofloxacin	tablet, 250 mg (as hydrochloride)	vancomycin (D)	powder for injection 250 mg (as hydrochloride) in vial
°doxycycline (5, 6)	capsule or tablet, 100 mg (hydrochloride)	6.2.3 ANTILEPROSY	
°erythromycin	capsule or tablet 250 mg	clofazimine dapsone	capsule, 50 mg, 100 mg
p	(as stearate or ethyl succinate) owder for oral suspension, 125 mg		tablet, 25 mg, 50 mg, 100 mg
	(as stearate or ethyl succinate)		psule or tablet, 150 mg, 300 mg
	powder for injection, 500 mg	6.2.4 ANTITUBERCU	LOSIS DRUGS
°gentamicin (2, 4, 7, 1		ethambutol (4)	tablet, 100–400 mg (hydrochloride)
	(as sulfate)/ml in 2-ml vial	isoniazid	tablet, 100-300 mg
		isoniazid + ethambutol (5) tablet, 150 mg + 400 mg

[°] Example of a therapeutic group. Various drugs can serve as alternatives.

pyrazinamide

tablet, 400 mg

rifampicin

9

capsule or tablet, 150 mg, 300 mg

rifampicin +

tablet, 60 mg + 30 mg, 150 mg + 75 mg, 300 mg + 150 mg

isoniazid (5)

tablet, 60 mg + 60 mg, 150 mg + 150 mg (for intermittent use 3 times weekly)

rifampicin + isoniazid +

pyrazinamide (5)

60 mg + 30 mg + 150 mg, 150 mg + 75 mg + 400 mg

tablet, 150 mg + 150 mg + 500 mg (for intermittent use 3 times weekly)

rifampicin + isoniazid +

tablet, 150 mg + 75 mg + 400 mg + 275 mg

pyrazinamide + ethambutol streptomycin (4)

powder for injection.

1 g (as sulfate) in vial

Complementary drug

thioacetazone + isoniazid (A) (5, 7) tablet, 50 mg + 100 mg,

150 mg + 300 mg

Additional reserve antituberculosis drugs for the treatment of drug-resistant tuberculosis should be used in specialized centres only with WHO-recommended TB control strategy, DOTS, and treatment programmes.

6.3 ANTIFUNGAL DRUGS

amphotericin B (4)

powder for injection, 50 mg in vial

°fluconazole

capsule, 50 mg

injection, 2 mg/ml in vial

oral suspension, 50 mg/5-ml

griseofulvin (7)

capsule or tablet, 125 mg, 250 mg

nystatin

tablet, 100 000, 500 000 IU

lozenge, 100 000 IU

pessary, 100 000 IU

Complementary drugs

flucytosine (B) (4.8)

capsule, 250 mg

infusion, 2.5 g in 250 ml

potassium iodide (A)

saturated solution

6.4 ANTIVIRAL DRUGS

6.4.1 ANTIHERPES DRUGS

aciclovir (8)

tablet, 200 mg

powder for injection, 250 mg (as sodium salt) in vial

6.4.2 ANTIRETROVIRAL DRUGS

Adequate resources and specialist oversight are a prerequisite for the introduction of this class of drugs.

nevirapine (8)

tablet, 200 mg oral solution, 50 mg/5 ml

zidovudine (8)

capsule, 100 mg, 250 mg

injection, 10 mg/ml in 20-ml vial

oral solution, 50 mg/5 ml

Drugs for treatment of HIV/AIDS include nucleoside reverse transcriptase inhibitors (NRTIs), non-nucleoside reverse transcriptase inhibitors (NNRTIs) and protease inhibitors (PIs). Zidovudine and nevirapine have been shown to reduce or prevent mother-to-child transmission of HIV infection. This is the only indication for which they are included here. Single drug use with zidovudine. except in pregnancy, is now regarded as obsolete because of the development of resistance. Triple therapy is beyond the budgets of most national drug programmes and therefore HIV/AIDS treatment policies must be decided at country or institutional level.

6.5 ANTIPROTOZOAL DRUGS

6.5.1 ANTIAMOEBIC AND ANTIGIARDIASIS DRUGS

o diloxanide

tablet, 500 mg (furoate)

°metronidazole

tablet, 200-500 mg

injection, 500 mg in 100-ml vial

oral suspension, 200 mg

(as benzoate)/5 ml

6.5.2 ANTILEISHMANIASIS DRUGS

°meglumine antimoniate

injection.

30%, equivalent to approx. 8.5% antimony, in 5-ml ampoule

powder for injection, 200 mg,

pentamidine (5)

300 mg (isetionate) in vial

Complementary drug

amphotericin B (B) (4)

powder for injection. 50 mg in vial

6.5.3 ANTIMALARIAL DRUGS

(a) FOR CURATIVE TREATMENT

°chloroquine

tablet, 100 mg, 150 mg (as phosphate or sulfate)

syrup, 50 mg

(as phosphate or sulfate)/5 ml

injection, 40 mg (as hydrochloride, phosphate or sulfate)/ml in 5-ml ampoule

Example of a therapeutic group. Various drugs can serve as alternatives.

primaquine

tablet, 7.5 mg, 15 mg (as diphosphate)

°quinine

tablet, 300 mg (as bisulfate or sulfate) injection, 300 mg (as dihydrochloride)/ml

in 2-ml ampoule

Complementary drugs

°doxycycline (B) (for use only in capsule or tablet. combination with quinine) 100 mg (hydrochloride)

mefloquine (B)

tablet, 250 mg (as hydrochloride)

sulfadoxine + pyrimethamine (B) tablet, 500 mg + 25 mg

Restricted indications

artemether (D)

injection, 80 mg/ml in 1-ml ampoule

artesunate (D)

tablet, 50 mg

(b) FOR PROPHYLAXIS

chloroquine

tablet, 150 mg (as phosphate or sulfate)

syrup, 50 mg (as phosphate or sulfate)/5 ml

doxycycline

capsule or tablet. 100 mg (hydrochloride)

mefloquine

tablet, 250 mg (as hydrochloride)

proguanil (for use only in combination with chloroquine)

tablet, 100 mg (hydrochloride)

6.5.4 ANTIPNEUMOCYSTOSIS AND ANTITOXOPLASMOSIS DRUGS

pentamidine (2)

tablet, 200 mg, 300 mg

pyrimethamine

tablet, 25 mg

sulfamethoxazole + trimethoprim

injection, 80 mg + 16 mg/ml in 5-ml and 10-ml ampoule

6.5.5 ANTITRYPANOSOMAL DRUGS

(a) AFRICAN TRYPANOSOMIASIS

melarsoprol (2)

injection, 3.6% solution

pentamidine (2)

powder for injection, 200 mg, 300 mg (isetionate) in vial

suramin sodium

powder for injection, 1 g in vial

Complementary drug

eflornithine (C)

injection, 200 mg (hydrochloride)/ml in 100-ml bottles

(b) AMERICAN TRYPANOSOMIASIS

benznidazole (7)

tablet, 100 mg

nifurtimox (2, 8)

tablet, 30 mg, 120 mg, 250 mg

6.6 INSECT REPELLENTS

diethyltoluamide

topical solution, 50%, 75%

Section 7: Antimigraine Drugs

7.1 FOR TREATMENT OF ACUTE ATTACK

acetylsalicylic acid

tablet, 300-500 mg

ergotamine (1c) (7)

tablet, 1 mg (tartrate)

paracetamol

tablet, 300-500 mg

7.2 FOR PROPHYLAXIS

°propranolol

tablet, 20 mg, 40 mg (hydrochloride)

Section 8: Antineoplastic and Immunosuppressive Drugs and Drugs Used in Palliative Care

8.1 IMMUNOSUPPRESSIVE DRUGS

Adequate resources and specialist oversight are a prerequisite for the introduction of this class of drugs.

°azathioprine (2)

tablet, 50 mg

powder for injection, 100 ma (as sodium salt) in vial

°ciclosporin (2)

(for organ transplantation)

capsule, 25 mg

concentrate for injection. 50 mg/ml in 1-ml ampoule

8.2 CYTOTOXIC DRUGS

Adequate resources and specialist oversight are a prerequisite for the introduction of this class of drugs.

asparaginase (2)

powder for injection, 10 000 IU in vial

powder for injection, 15 mg

bleomycin (2)

(as sulfate) in vial

calcium folinate (2)

tablet, 15 mg

injection, 3 mg/ml in 10-ml ampoule

chlorambucil (2)

tablet, 2 mg

chlormethine (2)

powder for injection, 10 mg (hydrochloride) in vial

Example of a therapeutic group. Various drugs can serve as alternatives.

(sodium salt)

in 5-ml ampoule

tablet, 1 mg, 2 mg and 5 mg

			*
cisplatin (2)	powder for injection, 10 mg, 50 mg in vial	Section 9: Ant	iparkinsonism Drugs
cyclophosphamide (2	tablet, 25 mg	°biperiden	tablet, 2 mg (hydrochloride)
	powder for injection, 500 mg in vial		injection, 5 mg (lactate) in 1-ml ampoule
cytarabine (2)	powder for injection, 100 mg in vial	levodopa + °carbidopa (5, 6)	tablet, 100 mg + 10 mg, 250 mg + 25 mg
dacarbazine (2)	powder for injection, 100 mg in vial	Section 10: Dru	igs affecting the
daunorubicin (2)	powder for injection,	Blood	
dantinamuria (O)	50 mg (as hydrochloride) in vial	10.1 ANTIANAEMIA L	DRUGS
dactinomycin (2)	powder for injection 500 µg in vial	ferrous sait	tablet, equivalent to 60 mg iron
°doxorubicin (2)	powder for injection, 10 mg, 50 mg (hydrochloride) in vial		oral solution, equivalent to 25 mg iron (as sulfate)/ml
etoposide (2)	capsule, 100 mg	ferrous salt + folic acid	tablet, equivalent
i	njection, 20 mg/ml in 5-ml ampoule	(nutritional supplement for during pregnancy)	or use to 60 mg iron + 400 µg folic acid
fluorouracil (2)	injection, 50 mg/ml	folic acid (2)	tablet, 1 mg, 5 mg
1	in 5-ml ampoule		injection, 1 mg (as sodium salt)
levamisole (2)	tablet, 50 mg (as hydrochloride)	hudrovoonbalamin (2)	in 1-ml ampoule
mercaptopurine (2)	tablet, 50 mg	hydroxocobalamin (2)	injection, 1 mg in 1-ml ampoule
methotrexate (2)	tablet, 2.5 mg (as sodium salt)	Complementary drug	
	powder for injection, 50 mg (as sodium salt) in vial	°iron dextran (B) (5)	injection, equivalent to 50 mg iron/ ml in 2-ml ampoule
procarbazine	capsule, 50 mg (as hydrochloride)	10.2 DRUGS AFFEC	TING COAGULATION
vinblastine (2)	powder for injection, 10 mg (sulfate) in vial	desmopressin (8)	injection, 4 μg (acetate)/ml in 1-ml ampoule
vincristine (2)	powder for injection, 1 mg, 5 mg (sulfate) in vial		nasal spray, 10 µg (acetate)/ metered dose
8.3 HORMONES A	ND ANTIHORMONES	heparin sodium	injection, 1000 IU/ml,
°prednisolone	tablet, 5 mg		5000 IU/ml, 20 000 IU/ml in 1-ml ampoule
	powder for injection, 20 mg, 25 mg (as sodium phosphate or	phytomenadione	injection, 10 mg/ml in 5-ml ampoule
	sodium succinate) in vial		tablet, 10 mg
tamoxifen	tablet, 10 mg, 20 mg (as citrate)	protamine sulfate	injection, 10 mg/ml

°warfarin (2, 6)

8.4 DRUGS USED IN PALLIATIVE CARE

The WHO Expert Committee on Essential Drugs recom-

mended that all the drugs mentioned in the WHO publication Cancer Pain Relief: with a Guide to Opioid Availability, 2nd edition, be considered essential. The drugs are included in the relevant sections of the model list according to their therapeutic use, e.g. analgesics.

Example of a therapeutic group. Various drugs can serve as alternatives.

Section 11: Blood Products and Plasma Substitutes

11.1 PLASMA SUBSTITUTES

°dextran 70

injectable solution, 6%

^cpolygeline

injectable solution, 3.5%

11.2 PLASMA FRACTIONS FOR SPECIFIC USE 1

Complementary drugs

°factor VIII concentrate (C) (2, 8)

dried

"factor IX complex (coagulation

dried

factors II, VII, IX, X) concentrate (C) (2, 8)

Section 12: Cardiovascular Drugs

12.1 ANTIANGINAL DRUGS

^eatenolol

tablet, 50 mg, 100 mg

glyceryl trinitrate

tablet (sublingual), 500 µg

cisosorbide dinitrate

tablet (sublingual), 5 mg

"verapamil (10)

tablet, 40 mg, 80 mg

(hydrochloride)

12.2 ANTIARRHYTHMIC DRUGS

"atenolol

tablet, 50 mg, 100 mg

digoxin (4, 11)

tablet, 62.5 µg, 250 µg

oral solution, 50 µg/ml

injection, 250 µg/ml

in 2-ml ampoule

lidocaine

injection, 20 mg (hydrochloride)/ml in 5-ml ampoule

verapamil (8, 10)

tablet, 40 mg.

80 mg (hydrochloride)

injection, 2.5 mg (hydrochloride)/ml

in 2-ml ampoule

Complementary drugs

epinephrine (C)

injection, 1 mg (as hydrochloride)/ml

isoprenaline (C)

injection, 20 µg (hydrochloride)/ml procainamide (B)

tablet, 250 mg,

500 mg (hydrochloride)

injection, 100 mg (hydrochloride)/ml

in 10-ml ampoule

equinidine (A) (7)

tablet, 200 mg (sulfate)

12.3 ANTIHYPERTENSIVE DRUGS

°atenolol

tablet, 50 mg, 100 mg

°captopril

scored tablet, 25 mg

°hydralazine

tablet, 25 mg, 50 mg

(hydrochloride) powder for injection, 20 mg

(hydrochloride) in ampoule

°hydrochlorothiazide

scored tablet, 25 mg

methyldopa (7) enifedipine (10) tablet, 250 mg

sustained-release formulations tablet, 10 mg

°reserpine

tablet, 100 µg, 250 µg

injection, 1 mg in 1-ml ampoule

Complementary drugs

prazosin

tablet, 500 µg, 1 mg (mesilate)

*sodium nitroprusside (C)(2,8)

powder for infusion, 50 mg in ampoule

12.4 DRUGS USED IN HEART FAILURE

°captopril

scored tablet, 25 mg

digoxin (4, 11)

tablet, 62.5 µg, 250 µg

oral solution, 50 µg/ml

injection, 250 µg/ml in 2-ml ampoule

dopamine

injection, 40 mg

(hydrochloride)/ml in 5-ml vial

°hydrochlorothiazide

tablet, 25 mg, 50 mg

12.5 ANTITHROMBOTIC DRUGS

acetylsalicylic acid

tablet, 100 mg

Complementary drug

streptokinase (C)

powder for injection, 100 000 IU, 750 000 IÚ in vial

Example of a therapeutic group. Various drugs can serve as alternatives.

All plasma fractions should comply with the Requirements for the Collection, Processing and Quality Control of Blood, Blood Components and Plasma Derivatives (Revised 1992). WHO Technical Report Series, No. 840, 1994, Annex 2.

12.6 LIPID-LOWERING AGENTS

The WHO Expert Committee on Essential Drugs recognizes the value of lipid-lowering drugs in treating patients with hyperlipidaemia. Beta-hydroxy-beta-methylglutarylcoenzyme A (HMG CoA) reductase inhibitors, often referred to as "statins", are potent and effective lipidlowering drugs with a good tolerability profile. Several of these drugs have been shown to reduce the incidence of fatal and non-fatal myocardial infarction, stroke and mortality (all causes), as well as the need for coronary bypass surgery. All remain very costly but may be costeffective for secondary prevention of cardiovascular disease as well as for primary prevention in some very highrisk patients. Since no single drug has been shown to be significantly more effective or less expensive than others in the group, none is included in the model list; the choice of drug for use in patients at highest risk should be decided at national level.

Section 13: Dermatological Drugs (topical)

13.1 ANTIFUNGAL DRUGS

benzoic acid + salicylic acid

ointment or cream, 6% + 3%

°miconazole

ointment or cream, 2% (nitrate)

sodium thiosulfate

solution, 15%

Complementary drug

selenium sulfide (C)

detergent-based suspension, 2%

13.2 ANTI-INFECTIVE DRUGS

°methylrosanilinium chloride (gentian violet)

aqueous solution, 0.5% tincture, 0.5%

neomycin + bacıtracın (7)

ointment, 5 mg

neomycin sulfate + 500 IU bacitracin zinc/g

potassium permanganate

aqueous solution, 1:10 000

silver sulfadiazine

cream, 1%, in 500-g container

13.3 ANTI-INFLAMMATORY AND ANTIPRURITIC DRUGS

°betamethasone (3)

ointment or cream, 0.1% (as valerate)

°calamine lotion

lotion

°hydrocortisone

ointment or cream, 1% (acetate)

13.4 ASTRINGENT DRUGS

aluminium diacetate

solution, 13% for dilution

13.5 DRUGS AFFECTING SKIN DIFFERENTIATION AND PROLIFERATION

benzoyl peroxide

lotion or cream, 5%

coal tar

solution, 5%

dithranol

ointment, 0.1-2%

fluorouracil

ointment, 5%

"podophyllum resin (7) salicylic acid solution, 10–25% solution 5%

urea

ointment or cream, 10%

13.6 SCABICIDES AND PEDICULICIDES

°benzyl benzoate

lotion, 25%

permethrin

cream, 5%

lotion, 1%

13.7 ULTRAVIOLET-BLOCKING AGENTS

Complementary drugs

topical sun protection agent with

activity against UVA and UVB (C) cream, lotion or gel

Section 14: Diagnostic Agents

14.1 OPHTHALMIC DRUGS

fluorescein

eye drops, 1% (sodium salt)

°tropicamide

eye drops, 0.5%

14.2 RADIOCONTRAST MEDIA

°amidotrizoate

injection, 140-420 mg iodine

(as sodium or meglumine

salt)/ml in 20-ml ampoule

barium sulfate

aqueous suspension

°iohexol

injection, 140-350 mg iodine/ml

iononoi

in 5-ml, 10-ml and 20-ml ampoule

°iopanoic acid

tablet, 500 mg

tablet, 500 mg

°propyliodone (For administration only into oily suspension. 500-600 mg/ml

the bronchial tree).

in 20-ml ampoule

Complementary drug

°meglumine iotroxate (C)

solution, 5 – 8 g iodine

in 100-250 ml

^a Example of a therapeutic group. Various drugs can serve as alternatives.

Section 15: Disinfectants and Antiseptics

15.1 ANTISEPTICS

°chlorhexidine solution, 5% (digluconate) for dilution

ethanol solution, 70% (denatured)

°polyvidone iodine solution, 10%

15.2 DISINFECTANTS

°chlorine base compound powder (0.1% available chlorine) for solution

°chloroxylenol solution, 4.8% glutaral solution, 2%

Section 16: Diuretics

°amiloride (4, 7, 8) tablet, 5 mg (hydrochloride)

furosemide tablet, 40 mg injection, 10 mg/ml in

2-ml ampoule °hydrochlorothiazide tablet, 25 mg, 50 mg

spironolactone (8) tablet, 25 mg

Complementary drug

°mannitol (C) injectable solution, 10%, 20%

Section 17: Gastrointestinal Drugs

17.1 ANTACIDS AND OTHER ANTIULCER DRUGS

aluminium hydroxide tablet, 500 mg

oral suspension, 320 mg/5 ml

°cimetidine tablet, 200 mg

injection, 200 mg in 2-ml ampoule

magnesium hydroxide oral suspension,

equivalent to 550 mg magnesium oxide/10 ml

17.2 ANTIEMETIC DRUGS

metoclopramide tablet, 10 mg (hydrochloride)

injection, 5 mg (hydrochloride)/ml

in 2-ml ampoule

°promethazine tablet, 10 mg, 25 mg (hydrochloride)

> elixir or syrup, 5 mg (hydrochloride)/5 ml

injection, 25 mg (hydrochloride)/ml in 2-ml ampoule

17.3 ANTIHAEMORRHOIDAL DRUGS

elocal anaesthetic, astringent ointment and anti-inflammatory drug or suppository

17.4 ANTI-INFLAMMATORY DRUGS

hydrocortisone suppository, 25 mg

(acetate)

°sulfasalazine (2) tablet, 500 mg

suppository, 500 mg

retention enema

° retention enema

17.5 ANTISPASMODIC DRUGS

°atropine tablet, 0.6 mg (sulfate)

injection, 1 mg (sulfate) in 1-ml ampoule

17.6 LAXATIVES

senna tablet, 7.5 mg (sennosides) (or traditional dosage forms)

17.7 DRUGS USED IN DIARRHOEA

17.7.1 ORAL REHYDRATION

oral rehydration salts (for glucose— powder, 27.9 g/l electrolyte solution)

Components	g/l
sodium chloride trisodium citrate dihydrate ²	3.5 2.9
potassium chloride	1.5
glucose	20.0

^o Example of a therapeutic group. Various drugs can serve as alternatives.

²Trisodium citrate dihydrate may be replaced by sodium bicarbonate (sodium hydrogen carbonate) 2.5 g/l. However, as the stability of this latter formulation is very poor under tropical conditions, it is only recommended when manufactured for immediate use.

17.7.2 ANTIDIARRHOEAL (SYMPTOMATIC) DRUGS

codeine (1a)

tablet, 30 mg (phosphate)

Section 18: Hormones, other Endocrine Drugs and Contraceptives

18.1 ADRENAL HORMONES AND SYNTHETIC SUBSTITUTES

°dexamethasone

tablet, 500 µg, 4 mg

injection, 4 mg dexamethasone phosphate (as disodium salt) in 1-ml ampoule

hydrocortisone

powder for injection, 100 mg (as sodium succinate) in vial

°prednisolone

tablet, 1 mg, 5 mg

Complementary drug

fludrocortisone (C)

tablet, 100 µg (acetate)

18.2 ANDROGENS

Complementary drug

testosterone (C) (2)

injection, 200 mg (enantate) in 1-ml ampoule

18.3 CONTRACEPTIVES

18.3.1 HORMONAL CONTRACEPTIVES

ethinylestradiol + elevonorgestrel

tablet, 30 μ g + 150 μ g,

ethinylestradiol +

²levonorgestrel

+ 250 µg (pack of four)

ethinvlestradiol + °norethisterone

tablet, 35 µg + 1.0 mg

levonorgestrel

tablet, 0.75 mg (pack of two)

Complementary drugs

Plevonorgestrel (B)

tablet, 30 µg

tablet, 50 µg

medroxyprogesterone acetate (B) (7, 8)

depot injection. 150 mg in 1-ml vial

norethisterone

oily solution, 200 mg/ml in

enantate (B) (7, 8)

1-ml ampoule

18.3.2 INTRAUTERINE DEVICES

copper-containing device

18.3.3 BARRIER METHODS

condoms with or without spermicide (nonoxinol)

diaphragms with spermicide (nonoxinol)

18.4 ESTROGENS

ethinylestradiol

tablet, 10 μg, 50 μg

18.5 INSULINS AND OTHER ANTIDIABETIC **AGENTS**

°glibenclamide

tablet, 2.5 mg, 5 mg

insulin injection (soluble)

injection. 40 IU/ml in 10-ml vial.

100 IU/ml in 10-ml vial

intermediate-acting insulin

injection.

40 IU/ml in 10-ml vial. 100 IU/ml in 10-ml vial

(as compound insulin zinc suspension

or isophane insulin)

metformin

tablet, 500 m (hydrochloride)

18.6 OVULATION INDUCERS

°clomifene (2, 8)

tablet, 50 mg (citrate)

18.7 PROGESTOGENS

norethisterone

Complementary drug

medroxyprogesterone acetate (B)

tablet, 5 mg

tablet, 5 mg

18.8 THYROID HORMONES AND ANTITHYROID DRUGS

levothyroxine

tablet, 50 µg, 100 µg (sodium sait)

potassium iodide

tablet, 60 mg

°propylthiouracil

tablet, 50 mg

Section 19: Immunologicals

19.1 DIAGNOSTIC AGENTS

tuberculin,3

purified protein derivative (PPD)

injection

Example of a therapeutic group. Various drugs can serve as alternatives.

³ All tuberculins should comply with the Requirements for Tuberculins (Revised 1985). WHO Technical Report Series. No. 745, 1987, Annex 1.

19.2 SERA AND IMMUNOGLOBULINS

anti-D immunoglobulin (human)

injection, 250 µg in single-dose vial

°antitetanus immunoglobulin (human)

injection, 500 IU in vial

antivenom serum

injection

diphtheria antitoxin

injection, 10 000 IU. 20 000 IU in vial

immunoglobulin, human normal (2) injection (intramuscular)

immunoglobulin,

human normal (2, 8)

injection (intravenous)

rabies immunoglobulin

injection, 150 IU/ml

19.3 VACCINES 5

19.3.1 FOR UNIVERSAL IMMUNIZATION

BCG

diphtheria

pertussis

tetanus

hepatitis B

measles

poliomyelitis

19.3.2 FOR SPECIFIC GROUPS OF INDIVIDUALS

influenza

meningitis

mumps

rabies

rubella

typhoid

yellow fever

Section 20:

Muscle Relaxants (peripherally acting) and Cholinesterase Inhibitors

°alcuronium chloride (2)

injection, 5 mg/ml in 2-ml ampoule

oneostigmine

tablet, 15 mg (bromide)

injection, 500 µg, 2.5 mg

(metilsulfate) in 1-ml ampoule

pyridostigmine bromide (2, 8)

tablet, 60 mg

injection, 1 mg in 1-ml ampoule

suxamethonium chloride (2)

injection, 50 mg/ml

in 2-ml ampoule powder for injection

Complementary drug

vecuronium bromide (C)

powder for injection,

10 mg in vial

Section 21: Ophthalmological Preparations

21.1 ANTI-INFECTIVE AGENTS

°gentamicin

solution (eye drops), 0.3%

(as sulfate)

°idoxuridine

solution (eye drops), 0.1%

eye ointment, 0.2%

silver nitrate

solution (eye drops), 1%

°tetracycline

eye ointment, 1% (hydrochloride)

21.2 ANTI-INFLAMMATORY AGENTS

°prednisolone

solution (eye drops), 0.5%

(sodium phosphate)

21.3 LOCAL ANAESTHETICS

°tetracaine

solution (eye drops), 0.5%

(hydrochloride)

21.4 MIOTICS AND ANTIGLAUCOMA DRUGS

acetazolamide

tablet, 250 mg

Example of a therapeutic group. Various drugs can serve as alternatives.

All plasma fractions should comply with the Requirements for the Collection, Processing and Quality Control of Blood, Blood components and Plasma Derivatives (Revised 1992). WHO Technical Report Series, No. 840, 1994, Annex 2. ⁵ All vaccines should comply with current WHO recommendations for biological substances.

°pilocarpine

solution (eye drops), 2%, 4% (hydrochloride or nitrate)

°timolol

solution (eye drops), 0.25%, 0.5%

(as maleate)

21.5 MYDRIATICS

atropine

solution (eye drops), 0.1%, 0.5%, 1% (sulfate)

Complementary drug

epinephrine (A)

solution (eye drops), 2% (as hydrochloride)

Section 22: Oxytocics and Antioxytocics

22.1 OXYTOCICS

ergometrine (1c)

tablet, 200 µg (hydrogen maleate)

injection, 200 µg (hydrogen maleate) in 1-ml ampoule

oxytocin

injection, 10 IU in 1-ml ampoule

22.2 ANTIOXYTOCICS

°salbutamol (2)

tablet, 4 mg (as sulfate)

injection, 50 µg (as sulfate)/ml in 5-ml ampoule

Section 23: Peritoneal **Dialysis Solution**

intraperitoneal dialysis solution (of appropriate composition)

parenteral solution

Section 24: Psychotherapeutic Drugs

24.1 DRUGS USED IN PSYCHOTIC DISORDERS

°chlorpromazine

tablet, 100 mg (hydrochloride)

syrup, 25 mg (hydrochloride)/5 ml

injection, 25 mg (hydrochloride)/ml in 2-ml ampoule

ofluphenazine (5)

injection, 25 mg (decanoate or enantate)

in 1-ml ampoule

°haloperidol

tablet, 2 mg, 5 mg

injection, 5 mg in

1-ml ampoule

24.2 DRUGS USED IN MOOD DISORDERS

24.2.1 DRUGS USED IN DEPRESSIVE **DISORDERS**

°amitriptyline

tablet, 25 mg (hydrochloride)

24.2.2 DRUGS USED IN BIPOLAR DISORDERS

carbamazepine (10, 11) scored tablet, 100 mg, 200 mg

lithium carbonate (2, 4)

capsule or tablet, 300 mg

valproic acid (7, 11)

enteric coated tablet. 200 mg, 500 mg (sodium salt)

24.3 DRUGS USED IN GENERALIZED ANXIETY AND SLEEP DISORDERS

°diazepam (1b)

scored tablet, 2 mg, 5 mg

24.4 DRUGS USED IN OBSESSIVE COMPULSIVE DISORDERS AND PANIC ATTACKS

clomipramine

capsules, 10 mg, 25 mg

(hydrochloride)

Section 25: Drugs Acting on the Respiratory Tract

25.1 ANTIASTHMATIC DRUGS

°aminophylline (2)

°beclometasone

injection, 25 mg/ml in 10-ml ampoule

inhalation (aerosol), 50 μg, 250 μg,

(dipropionate) per dose

injection, 1 mg (as hydrochloride

or hydrogen tartrate) in 1-ml ampoule

ipratropium bromide

inhalation (aerosol), 20 µg/dose

°salbutamol

°epinephrine

tablet, 2 mg, 4 mg (as sulfate)

inhalation (aerosol), 100 μg (as sulfate) per dose

syrup, 2 mg (as sulfate)/5 ml

injection, 50 μg (as sulfate)/ml in 5-ml ampoule

respirator solution for use in nebulizers. 5 mg (as sulfate)/ml

theophylline (10, 11)

tablet, 100 mg, 200 mg, 300 mg

Complementary drug

°cromoglicic acid (B)

inhalation (aerosol),

20 mg (sodium sait) per dose

Example of a therapeutic group. Various drugs can serve as alternatives.

ESSENTIAL DRUG LIST (PREPARED BY COMMUNITY HEALTH CELL)

S1.	Name of Drug	Sl.	Name of Drug
No.		No.	
	ANAESTHETICS		ANALGESIC/ANTIPYRETICS
1.	Ether	1.	Paracetamol
2.	Halothene	2.	Aspirin
3.	Thiopental	3.	Ibuprofen
4.	Nitrous Oxide	4.	Indomethacin
5.	Oxygen	5.	Pentazocine Lactate
		6.	Pethidine
	ANTI - ALLERGICS		ANTI - EPILEPTICS
1.	Chlorpheniramine maleate	1.	Phenobarbitone
2.	Promethazine	2.	Diazepam
3.	Adrenaline	3.	Phenytoin Sodium
4.	Dexamethasone	4.	Carbamazepine
	ANTIBODIES		ANTI - INFECTIVES
1.	Atropine sulphate	1.	Mebendazole
2.	Magnesium Sulphate	2.	Metronidazole
3.	Pralidoxime	3.	Benzyl Pencillin
		4.	Procaine Pencillin
		5.	Benzathine Pencillin
		6.	Tetracycline
		7.	Doxycycline
		8.	Chloramphenicol
		9.	Co-trimoxazole
,		10.	Erythromycin
		11.	Amoxycillin
		12.	Ampicillin
	ANTI - LEPROSY		ANTI TIPEDOLE :-
1.	Dapsone Dapsone	1	ANTI - TUBERCULAR
2.	Rifampicin	1.	INH
3.	Clofezimine	2.	Streptomycin
,	Ciorezininie	3.	Thioacetazone
	•	4.	Rifampicin
		5.	Ethambutol

1.	ANTI - FILARIAL Di-ethyl carbamazine			ANTI - FUNGAL Griseofulvin Amphotericin B
	ANTEL MALABAN			
1.	ANTI - MALARIAL			HAEMOPOIETIC
2.	Chloroquin Primaquin			Ferrous Sulphate + folic Acid
3.	Sulfadoxin Pyremethamine		2. 3.	Ferrous Fumarate + folic Acid
4.	Quinine Sulphate).	Folic Acid
	CARDIOVASCULAR			ANTI - HYPERTENSIVE
1.	Isosorbide Nitrate	1		Hydrochlorothiazide
2.	Propranolol) <u>.</u>	Reserpine
		3		Hydralazine
	•	4		Atenlol
	CARDIAC GLYCOSIDE			DIURETICS
1.	Digoxin	1	•	Frusemide
		2		Spiranolactone
		3		Mannitol
	GASTRO INTESTINAL			LAXATIVES
	Antacids	1	•	Isapaghula husk
1.	Aluminium Hydroxide	2		Paraffin, liquid
2.	Magnesium Trisilicate	3		Glycerine
3.	Ranitidine			
	Anti-emetics			i i
1.	Metoclopramide			
2.	Promethazine			
	Anti spasmodic			
1.	Atropine sulphate			X
2.	Dicyclomin			
3.	Promethazine			
	Anti -Diarrhoeals			
	ORS packets			
	Loperamide Hydrochloride (not for children)			

	HARMONES		ANTI DIABETIC
1.	Prednisolone	1.	Insulin (plain)
2.	Hydrocortisone sodium succinate	2.	Insulin (Lente)
		3.	Glibenclamide
	PSYCHO THERAPEUTIC		RESPIRATORY
1.	Imipramine		Anti asthmatic
2.	Chlorpromazine	1.	Deriphylline
3.	Diazepam	2.	Aminophylline
		3.	Salbutamol
		4.	Terbutaline
		5.	Oxygen
			Anti-tussive
		1.	Codeine Phosphate
			_
	<u>OBSTETRICS</u>		REHYDRATION ACID BASE
1.	Methergin		ELECTROLYTE balance
2.	Oxytocin	1.	I.V. Dextrose
		2.	I.V. Sodium Chloride
		3.	I.V. Dextrose + Saline
		4.	I.V. Molar Lactate
		5.	I.V. Sodium Bicabonate
		6.	Potassium Chloride
	VITAMINS/MINERALS		SKIN & STD
1.	Ascorbic Acid	1.	Zinc Oxide Ointment
2.	Vitamin A	2.	Whitfield ointment
3.	Vitamin B complex	3.	Benzyl benzate
		4.	Neomycin+bacitracin
		5.	Gention violet
2		6.	Miconazole ointment
		7.	Pencillin
		8.	Doxycyclin
		9.	Norfloxacin

•

	EYE DROPS		EMERGENCY DRUGS
1.	Tetracycline	1.	Oxygen cylinders on trolleys, with
2.	Pilocarpine	2.	flow meters and mask
3.	Humatropine	3.	Dopamine
4.	Chloramphenical	4.	Hydro cortisone
		5.	Lignocaine
		6.	Atropine
		7.	Sodium Bicarbonate
		8.	Pralidoxime
		9.	Adrenaline
	•	10.	Mephentermine
		11	Mannitol
		12.	Magnesium sulphate
		13.	Trachestomy set, 24,27,30,36
	ACCESSORIES		
1.	Water for injection		
2.	Hydrogen peroxide		
3.	Chlorhexidine		VACCINES & SERA
4.	Absorbent Cotton	1.	All vaccines as per National
5.	Gauze, small & large	2.	Universal Immunization Programme
6.	Bandage	3.	Anti Rabies serum
7.	Butterfly (scalp) venesets 18,21,24	4.	Anti Snake Venom Serum
8.	Sutures		2 day chaire venom serum
	Black braided silk		
	Mersilk		
	Catgut, plain		
	Catgut Chromic Prolene, atraumatic		
	Vicryl		
	Cotton thread		
9.	Suture Needles		
10.	Hypodermic Needles		
11.	Gloves, surgical		
12.	Ryles Tubes		
13.	Adhesive Plaster		
14.	Elastocrepe bandage		
15.	Plaster of Paris		
16.	Surgical Spirit		
17.	Drip set: administration; fluid, blood		
and so sit	Cannula, IV for venesection		
18.	Syringes		
19.	Catheters, plain		
20.	Catheters, Foley's		
21.	Bleaching powder		

DIAGNOSTIC AGENTS

As needed

This list has been prepared using the following lists for reference:

- 1. model list of essential list
- 2. Essential drugs in Primary Health Care in India, Southern region list, prepared at National Seminar conducted by NIPCCD.
- 3. Lists of drugs received from Government and other sources
- 4. CHAl-MAI formulary.



EXAMPLES OF THE IMPORTANCE OF INDIA AS THE "PHARMACY FOR THE DEVELOPING WORLD"

QUICK OVERVIEW:

- India is the main supplier of essential medicines for developing countries.
- 67 % of medicines produced in India are exported to developing countries.
- Main procurement agencies for developing countries' health programmes purchase their medicines in India, where there are quality products and low prices.
- Approx. 50% of the essential medicines that UNICEF distributes in developing countries come from India
- 75-80% of all medicines distributed by the International Dispensary Association (IDA) to developing countries are manufactured in India. (IDA is a medical supplier operating on a not-for-profit basis for distribution of essential medicines to developing countries.)
- In **Zimbabwe**, 75% of tenders for medicines for all public sector health facilities come from Indian manufacturers
- The state procurement agency in Lesotho, NDSO, states it buys nearly 95% of all ARVs from India.

Antiretroviral medicines (ARVs) for AIDS treatment:

India is the world's primary source of affordable ARVs, as it is one of the few countries with the capacity to produce these newer medicines as generics. Therefore, all AIDS programmes use India as their main source of products.

- 80% of ARVs MSF uses are purchased in India and are distributed in treatment projects in over 30 countries.
- Globally, 70% of the treatment for patients in 87 developing countries, purchased by UNICEF, IDA, the Global Fund (GFATM) and the Clinton Foundation since July 2005 has come from Indian suppliers.
- PEPFAR, the US President's AIDS initiative also purchases ARVs from India for distribution in developing countries, thus resulting in cost-savings of up to 90%. 89% of the generic ARVs approved by the US Food and Drug Administration for PEPFAR are from India.¹
- 90% of the ARVs used in Zimbabwe's national treatment programme come from India.

Raw materials:

In addition, raw materials are exported from India to other countries, such as Brazil, for local production of affordable medicines. This has been crucial to enabling national AIDS programmes to provide universal free access to ARVs.

IN DETAIL:

India is the main supplier of essential medicines for developing countries. This applies not only to AIDS medicines, but to medicines to treat other diseases, as well. India is the world's leading supplier of inexpensive generic medicines, with approximately 67% of them being exported to developing countries.²

¹ with partial data available for fiscal year 2006

² Oxfam

1) International procurement agencies

The main procurement agencies for health programmes in developing countries purchase their medicines in India, where quality products can be purchased at low prices.

MSF:

• 40% of the money MSF spends on oral medicines is used to buy drugs from India (if injectables are included, the average lies at 26,5%).

UNICEF:

- India ranks second on the list of countries from which UNICEF purchases medical supplies.
 India has a considerable lead over all countries below it on the list, and Belgium only ranks first because of vaccines (e.g. combination vaccines are not yet being produced in India)³.
- If vaccines are excluded, India is the source of approx. 50% of the essential medicines UNICEF distributes in developing countries (see figure 1).

... AND WHERE WE BUY IT

		COUNTRIES 2005 ad States Dollars)
Belgium	Calculation and the second	Pakistan 29
India	205	China 26
France	82	Kenya 21
Japan	54	Indonesia 20
Switzerland	43	Thailand 14
Denmark	40	Sudan 11
United States	33	South Africa 11
taly	33	Sweden 10
Germany	31	United Arab Emirates 9
United Kingdom	31	Republic of Korea9

Figure 1: Top 20 supplier countries for UNICEF⁴

IDA (International Dispensary Association)

 75-80% of all medicines distributed by IDA to developing countries are manufactured in India. (IDA is a medical supplier operating on a not-for-profit basis for distribution of essential medicines to developing countries.)

2) National supply stores for public/non profit sector:

Zimbabwe

 The National Pharmaceutical Company, Natpharm, (formerly Governmental Central Stores), states 75% of tenders for supply to national health facilities are won by Indian manufacturers.

3) Antiretrovirals - ARVs

India is the world's primary source of affordable ARVs, as it is one of the few countries with the capacity to produce these newer medicines as generics. Therefore, all AIDS programmes use India as their main source of products.

• 80% of ARVs MSF uses are purchased in India and are distributed in treatment projects in more than 30 countries.

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³ http://www.unicef.org/supply/files/SD_AnnualReport_2005.pdf

⁴ ibid

- Globally, 70% of the treatment for 900,000 patients in 87 developing countries, purchased by UNICEF, IDA and the Global Fund (GFATM) since July 2005 has come from Indian suppliers.
- PEPFAR, the US President's AIDS initiative also purchases ARVs from India for distribution in developing countries, thus resulting in cost-savings of up to 90%. 89% of the generic ARVs approved by the US Food and Drug Administration for PEPFAR are from India.⁵
- 90% of the ARVs used in Zimbabwe's national treatment programme come from India.
- The state procurement agency in Lesotho, NDSO, states it buys nearly 95% of all ARVs from India.

PEPFAR: The vast majority of ARVs used by PEPFAR come from India. "In every case generic prices present an opportunity for cost savings; in some cases, the branded price per pack of a drug is up to 11 times the cost of the approved generic version."

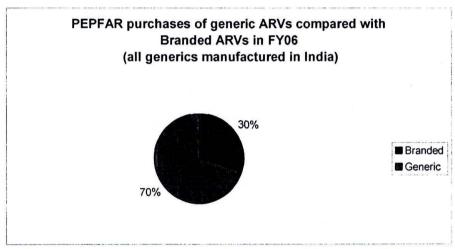


Figure 2: Bringing Hope: Supplying ARVs for HIV/AIDS treatment, PEPFAR, May 2006⁷

4) Active Pharmaceutical Ingredients (APIs)

Raw materials from India are also exported to other countries for production of affordable medicines. This has been key in the success of national AIDS programmes' ability to provide universal free access to ARVs.

As an example, generic production of medicines in Brazil is heavily dependent on APIs purchased from India. At the third meeting of the Commission on Intellectual Property Rights, Innovation and Public Health (CIPIH)⁸, Brazil stated: "Brazil is concerned whether the application of TRIPS in India and China may affect access to APIs, and thus their treatment programme."

⁵ with partial data available for fiscal year 2006

⁶ Bringing Hope: Supplying ARVs for HIV/AIDS treatment, PEPFAR, May 2006

⁷ Note only several months of 2006 are included

⁸ Third meeting of the Commission on Intellectual Property Rights, Innovation and Public Health (CIPIH), 31 Jan. - 4 Feb. 2005

Campaigns for Essential Medicines

- For Batch 4 CHFS Orientation (August 14, 2006). Facilitated by NT

Quiz on pharma development

- When was the first synthetic pharmaceutical introduced?
- When was the first modern antibiotic introduced?
- When was the first commercially formulated antimalarial?
- When was the first antitubercular produced?
- What about the first clinical use of oral contraceptives, of drugs for diabetes and of drugs for mental illness.
- And when was drugs for other infectious diseases, for cardiovascular diseases and for a wide range of other conditions developed?

Answers

- When was the first synthetic pharmaceutical introduced? (1897)
- When was the first modern antibiotic introduced? (1941)
- When was the first commercially formulated antimalarial? (1943)
- When was the first anti-tubercular produced? (1944)
- What about the first clinical use of oral contraceptives, of drugs for diabetes and of drugs for mental illness (1950s)
- And when was drugs for other infectious diseases, for cardiovascular diseases and for a wide range of other conditions developed? (50s onwards, in 60s and 70s)

Model List of Essential Drugs

- WHO published the first Model List of Essential Drugs in 1977, it identified 208 individual medicines.
- The current Model List of Essential Medicines, prepared by the WHO in March 2005 is the 14th ed. It contains 312 individual medicines, including antiretroviral medicines.

Essential medicines

Those that satisfy the:

• priority health care needs of the population

Selected with due regard to:

- disease prevalence
- evidence on efficacy and safety &
- comparative cost-effectiveness

Essential medicines

Are intended to be available:

- within the context of functioning health systems
- at all times
- in adequate amounts
- in the appropriate dosage forms
- with assured quality
- at a price the individual and the community can afford.

This year

>40 million people will die

in developing countries.

Of the over 40 million deaths

one-third will be children under age five.

Of the over 40 million deaths

10 million will be due to acute respiratory infections, diarrhoeal diseases, tuberculosis, and malaria

10 million avoidable deaths

due to conditions for which

safe, inexpensive, essential drugs

can be

life-saving.

WHO estimates

- more than half of all medicines are
 - · prescribed,
 - · dispensed or
 - sold inappropriately,
- half of all patients fail to take them correctly.

Irrational use of medicines

- overuse,
- underuse or
- · misuse of medicines
 - It results in
 - wastage of scarce resources and
 - · widespread health hazards

Examples - irrational use of medicines

- use of too many medicines per patient ("polypharmacy");
- inappropriate use of antimicrobials,
- · often in inadequate dosage,
- · for non-bacterial infections;
- over-use of injections when oral formulations would be more appropriate;
- failure to prescribe in accordance with clinical guidelines;
- inappropriate self-medication, often of prescriptiononly medicines;
- non-adherence to dosing regimes.

Neglected diseases

- Over the past 30 years, the number of drugs targeting neglected diseases is ten if we consider the most neglected diseases.
- 18 if we add malaria.
- and 21 if we add tuberculosis.
- These totals still represent only around 1% of all new drugs (1,556)

What are neglected diseases?

- Neglected diseases, such as malaria and tuberculosis, mainly affect people in poor countries.
- Most neglected diseases, such as sleeping sickness, Chagas disease, visceral leishmaniasis (Kala azar), Buruli ulcer etc. almost exclusively affect people in developing countries who are too poor to pay for any kind of treatment. These patients are too deeply impoverished to constitute a market that can attract investment in drug R&D.

India response

- All India Drug Action Network
- medico friends circle
- Drug Action Forum
- Jan Swasthya Abhiyan
- National Working Group on Patent Laws
- WTO Wirodhi Bharatiya Jan Abhiyan (Indian People's Campaign against WTO) etc, etc.....

Community Health Cell

From:

cehatpun@vsnl.com on behalf of SATHI [cehatpun@vsnl.com]

Sent:

Wednesday, December 06, 2006 2:59 PM

To:

Vandana Prasad; Amit Sen Gupta; Ekbal; Amitava Guha; N. B. Sarojini; Sundar gmail;

Thelmanarayan

Cc:

isa delhi

Subject: Rabies vaccine - Letter to . A.S.Anand, Chairperson, NHRC

Dear All,

I am forwarding herewith the letter which we faxed today to NHRC with copy to Mrs. Aruna Sharma. Abhaywas to meet Mrs. Aruna Sharma today and would hopefully be able to push this matter about intra dermal Rables Vaccine because she had specifically shown interest in taking up this issue when Dhananjay met her a few days back.

Sincerely yours,

Anant

---- Original Message ----

From: SATHI

To: ABHAY TRAVELLING

Sent: Wednesday, December 06, 2006 2:34 PM Subject: Letter to . A.S.Anand, Chairperson, NHRC

Please find attached herewith letter to Justice Dr. A.S.Anand, Chairperson, NHRC

SATHI-CEHAT 3 & 4, Aman E Terrace, Dahanukar Colony, Kothrud,

Pune -411029

Phone: 020-25451413, 25452325

John Arasol, Ablay of friends, personne The important of There flowed from the reduced voccine. All state ICA groups of There will take it up with JAAK.

The holo should take it up. I will take it up with JAAK.

The write to all the units of allied groups.

The line.

(People's Health Movement - India)

Health for All - Now!

Health is a Basic Human Right!

1.11

It is the duty of the State to protect all citizens against this invariably fatal disease. But this fundamental right to life is being violated by not sufficiently increasing the budget to provide this 'new' vaccine and by not continuing the earlier policy of providing free Anti Rabies Vaccine to all cases of dog bite who report to Public Health facilities.

We urge you to urgently intervene in this matter so that the direct threat to the lives of so many poor people in India due to Rabies is annulled.

Attached herewith is our letter to Mr. P. Hota, Health Secretary, in which we have suggested two specific measures to overcome this problem. This letter has been handed over on 17th October 05 in a meeting to Ms. Rita Teotia, Joint Secretary, Health and Family Welfare, with a plea for urgent action. We trust that in this instance too, you would take necessary steps to help protect the lives of a large number of needy people in the country, by asking the Health ministry to institute the necessary measures urgently.

Awaiting your positive response.

Sincerely yours,

k - - - 0

Dr. B. Ekbal.

National Convenor, JSA

Dr. Abhay Shukla

National Joint Convenor, JSA

PS. Attachment: - Letter to Mr. P. Hota, Secretary, Ministry of Health and Family Welfare

c/o Delhi Science Forum, D-158, Lower Ground Floor, Saket, New Delhi -110017.

Ph: (011) 26524324 , 26862716 (Telfax). Email: ctddsf@vsnl.com

c/o Sama Resource Group for Women and Health, G-19, 2nd Floor, Marg no.24, Saket, New Delhi 17. Phone 011- 26562404, 26968972 Email- sama_womenshealth@vsnl.net

(People's Health Movement - India)

Health for All - Now!

Health is a Basic Human Right!

Chairperson:

N.H. Antia

Convenor:

B. Ekbal

Jt.Convenors:

Abhay Shukla Amit Sen Gupta Amitava Guha T. Sundararaman Thelma Narayan

National secretariat members:

Vandana Prasad N.B. Sarojini

National Co-ordination Committee:

All India People's Science Network (AIPSN) All India Drug Action Network (AIDAN) Asian Community Health Action Network (ACHAN) All India Democratic Women's Association (AIDWA) Association for India's Development (AID) Bharat Gyan Vigyan Samiti (BGVS) Breastfeeding Promotion Network of India (BPNI) Catholic Health Association of India (CHAI) Centre for Community Health and Soc. Medicine, JNU Christian Medical Association of India (CMAI) Community Health Cell (CHC) Forum for Creche and Child Care Services (FORCES) Fed. of Medical Representative Assns. of India (FMRAI) Health Watch- UP- Bihar Joint Women's Programme (JWP) Medico Friends Circle (MFC) National Alliance of People's Movements (NAPM) National Federation of Indian Women (NFIW) National Association of Women's Organisations (NAWO) Sama- Resource Group for Women and Health SATHI-CEHAT Voluntary Health Association of India (VHAI)

Participating Organisations:

Over 1000 organisations concerned with health care and health policy from both within and outside the above networks.

6th December 2006

To, Justice Dr. A.S. Anand, Chairperson, National Human Rights Commission, New Delhi

Subject: - Unavailability since June 05 in Public Health Facilities throught India, of free vaccine against the invariably fatal Rabies, leading to serious human rights violation

Respected Justice Anand,

This is in continuation with the complaint that we have launched on 31st October, 2005 about the subject mentioned above. Copy of this letter is enclosed herewith for your ready reference.

In February 06, Drugs Controller of India sent a circular to the manufacturers of Rabies Vaccine in India giving them permission to use the Intra Dermal Route of this vaccine. This was probably because of the action initiated by your office in response to our complaint. However, there is a crucial rider in the letter issued by the Drugs Controller of India, which says that the Intra Dermal Route can be used only if there are more than fifty patients of dog bite report to the Health Centre in a day.

Barring one or two exceptions in all other public hospitals in any state and certainly in Primary Health centres, there is certainly no possibility of having the fifty cases of dog bite in a day. This strange condition has no medical or any other logic whatsoever. The effect of this circular is that the cheaper Intra Dermal Route is not being used in any of the Primary Health Centres or in Rural Hospitals in India. Only those patients with dog bite who posses yellow card (BPL card) are given the conventional Intra Muscular Regimen, which consumes four to five times the volume of vaccine that is used in Intra Dermal Regimen. Given the very limited budget being made available for purchase of rabies vaccine, the continued use of Intra Dermal Regimen means in effect denial of vaccine protection to large number of people who have been afflicted by dog bite. As is well known, rabies caused by rabid dog bite is invariably fatal and hence this denial of vaccine protection effectively means denial of right to life. It is necessary that Drugs Controller of India and the Health Secretary give a very clear instruction in favour of use of Intra Dermal Regimen without putting the condition of at least fifty cases of dog bite a day.

Addresses for Correspondence:

National Secretariat c/o SATHI-CEHAT, 3&4, Aman Terrace, Plot No. 140, Dahanukar Colony, Kothrud, Pune 411029 Ph: (020) 25451413 / 25452325 Email: cehatpun@vsnl.com

c/o Delhi Science Forum, D-158, Lower Ground Floor, Saket, New Delhi -110017.

Ph: (011) 26524324, 26862716 (Telfax). Email: ctddsf@vsnl.com

C/o Sama Resource Group for Women and Health, G-19, 2nd Floor, Marg no.24, Saket New Delhi 17. Phone 011- 55637632/3, 26968972 Email- sama womenshealth@vsnl.net

(People's Health Movement - India)

Health for All - Now!

Health is a Basic Human Right!

We request you to personally intervene in this matter and see to it that this absurd condition is withdrawn and Drugs Controller, India is questioned for jeopardizing the lives of thousands of cases of dog bite that are being denied vaccine protection because of this absurd condition.

Looking forward to a positive response and an early action.

Thanking you,

Sincerely yours,

Dr. B. Ekbal

National Convenor, JSA

Dr. Abhay Shukla National Joint Convenor, JSA

Dr. Anant Phadke Co-Convenor - Maharashtra JSA-

(People's Health Movement - India)

Health for All - Now!

Health is a Basic Human Right!

31st October 2005

Chairperson:

N.H. Antia

Vice-Chairperson:

D. Banerjee

Convenor:

B. Ekbal

Jt. Convenors:

Abhay Shukla Amit Sen Gupta Amitava Guha

T. Sundararaman

Thelma Narayan

National secretariat members:

Vandana Prasad N.B. Sarojini

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Participating Organisations:

Over 1000 organisations concerned with health care and health policy from both within and outside the above networks.

To.

Justice Dr. A.S. Anand,

Chairperson.

National Human Rights Commission,

New Delhi

Subject: - National unavailability in Public Health Facilities of free vaccine against the invariably fatal Rabies from June 05, leading to serious human rights violation

Respected Justice Anand,

As you would be aware, rabies caused by the bite of rabid dog is a 100% fatal disease. Hence as a national policy, the Anti Rabies Vaccine was made available free of charge in Public Health facilities from Primary Health Centres upwards. In India, due to paucity of funds, the obsolete sheep brain vaccine, the 'Semple Vaccine' was being used till May 05. Now from June 05 this vaccine has been withdrawn from the Indian market, a welcome step. However the alternative to it, the new and safer vaccine (the 'cell-culture vaccine') is generally not available free of cost in public health facilities. This new vaccine (marketed under the brand names Rabipur, Verorab etc) costs about Rs. 300 per injection, or notify Rs. 1500 for the full course of five injections. In principle, those who possess the Below Poyerty Level (BPL) card are supposed to get this vaccine free, however this system does not always work; in addition many genuinely poor people do not possess the BPL card; and even lower middle class people cannot afford the cost of Rs. 1500; hence now a very large number of people in India are left with no protection from the fatal disease rabies after rabid dog bite.

1 10 m

Addresses for Correspondence:

National Secretariat c/o SATHI-CEHAT, 3&4, Aman Terrace, Plot No. 149, Sahanukar Colony, Kothrud, Pune 411029 Ph: (020) 25451413 / 25452325 Email: cehatpun@vsnl.con

c/o Delhi Science Forum, D-158, Lower Ground Fluor, Saket, New Delhi -1

Ph: (011) 26524324; 26862716 (Telfax). Email: ciddst@vsnl.com

C/o Sama Resource Group for Women and Health, G-19, 2nd Floor, Margino. 24, Saket,

New Delhi 17. Phone 011- 26562404, 26968972 Email- sama womenshealth@vsnl.net

---- Original Message ----

From: subha & rakhal
To: naveen@sochara.org

Sent: Wednesday, December 13, 2008 5:50 AM

Subject: Fwd: [reprohealth_india] letter to communist leaders - last date 14th Dec

Dear Naveen,

I think CHC should sign in on this.

rakhal

From: satinath sarangi [mailto:justiceinbhopal@yahoo.co.in]

Sent: Saturday, December 09, 2006 7:27 PM

To: icjb-planning@lists.studentsforbhopal.org; sfbplanning; aid_bhopal@aidindia.org; remember-

bhopal@lists.studentsforbhopal.org

Subject: [Norton AntiSpam] [remember-bhopal] letter to communist leaders

dear all,

below is a letter we would like to send to the polit bureau of the communist party of india [marxist] or cpm. the letter asks the members of the top decision making body of the party to disallow dow chemical's proposed investment in west bengal - a state in which the cpm has been in power for more than 30 years.

the present "united progressive alliance" upa government at the centre is quite dependent on the support of cpm. 43 out of 543 members of the indian parliament are from the cpm.

currently the cpm government in west bengal and the polit bureau is siezed with the issue of establishment of an automobile factory by india's top capitalists - the Tatas - in the face of opposition by local farmers and others whose lands have been taken away by force by the state government, author arundhati roy and medha patkar are among those supporting the agitating farmers and fisherpeople who were shot at by the police during one of the recent demonstrations.

we aim to send this letter to the communist leaders and to the media on 15th morning while there is debate within the party and much pressure from without on the issue of industrial investments in west bengal. please try and get as many organizations signed on as possible and send us the names by 14th evening.

best wishes.

Dean Eddie should Pls.

Dean Lord should Pls.

Jen our son of son of son of the son of t

Araft with mas be paratiked for behalf of and sound of 14/11/08.

The Members of the Polit Bureau Communist Party of India (Marxist) A.K. Gopalan Bhawan, 27-29, Bhai Vir Singh Marg (Gole Market), New Delhi - 110001

Date: December 15, 2006

Subject: Open letter for disallowing American multinational Dow Chemical, owner of Killer Union Carbide, to invest in West Bengal

Dear Members of the Polit Bureau of the Communist Party of India (Marxist),

We, representatives of organizations of survivors of the Bhopal disaster and their supporters are writing to you to urge that you reject the proposed investment in West Bengal by the current owner of Union Carbide Corporation, American multinational The Dow Chemical Company.

As you must know Union Carbide has killed well over 20 thousand people in Bhopal and injured more than half a million by the leak of toxic gases in December 1984. You may also know that more than 25 thousand people living in the vicinity of the abandoned pesticide factory are being poisoned through contaminations in their ground water.

We are sure you are aware that Union Carbide Corporation is criminally charged with manslaughter, grievous assault and other serious offences and the company is absconding from the ongoing criminal case since 1992. Successive Indian Governments have failed to make any effort to enforce Carbide's appearance in Indian courts. We have recently presented evidence in the criminal court in Bhopal that the fugitive American corporation continues to sell its products, technologies and processes through Indian subsidiaries of The Dow Chemical Company with which it merged in 2001.

Like Union Carbide, Dow has left a trail of massacre and misery all over the world. It was the major supplier of Napalm and Dioxin-tainted Agent Orange used by the US military against communist Vietnam in the 1960s. Today more than 650,000 children suffer a range of physical and mental deformities as a result of Dow's poisons in Vietnam. In India Dow Chemical is producing Dursban, a pesticide that was withdrawn from the US market in 2000 because of its harmful effect on children's brains.

Rather than bring Union Carbide and Dow Chemical to own up to their responsibilities in Bhopal, the Indian Government has gone out of its way to facilitate Dow's business in India. Last year the Prime Minister directed the setting up of a Special Task Force in the Planning Commission to facilitate Dow Chemical's petrochemical investments in West Bengal and Andhra Pradesh.

Given the support by the Communist Party of India (Marxist) and its allied groups to the 22 year long campaign for justice in Bhopal it would be indeed ironic and unfortunate if Dow Chemical were allowed to invest in CPM ruled West Bengal. We are hopeful that the CPM leadership will issue an unequivocal statement clarifying that Dow Chemical or any of its subsidiaries will not be entertained in West Bengal.

As we send this letter to you we are also releasing it to the media so as to communicate to the public the issue which we believe is of critical national and international importance particularly to the progressive people in our country and the world.

Please let us know if you would like us to send more information regarding this matter. We will appreciate an early response from you.

Yours sincerely,

Representatives of organizations of survivors of the Union Carbide disaster in Bhopal and their supporters.

Rational Drug Therapy principles, realities and the road ahead

Sujith J Chandy, Clinical Pharmacology Unit, CMC, Vellore

Introduction

Ineffective, inappropriate and economically nonviable use of medicines is often observed in health care throughout the world. This is more so in the developing countries. The need for achieving quality use of medicines in the health care system is not only because of the financial reasons with which policy makers and administrators are usually most concerned. Appropriate use of drugs is also one essential element in achieving quality of health and medical care for patients and the community.

Defining Rational Drug Use

What is rational use of drugs? The Conference of Experts on the Rational Use of Drugs, convened by the World Health Organization in Nairobi in 1985 defined it as:

"Rational use of drugs requires that patients receive medications appropriate to their clinical needs, in doses that meet their own individual requirements for an adequate period of time, and the lowest cost to them and their community."

These requirements will be fulfilled if the process of prescribing is appropriately followed. This will include steps in defining patient's problems (or diagnosis); in defining effective and safe treatments (drugs and non-drugs); in selecting appropriate drugs, dosage and duration; in writing a prescription; in giving patients adequate information; and in planning to evaluate treatment responses. The definition implies that rational use of drugs, especially rational prescribing should meet certain criteria:

Appropriate indication. The decision to prescribe drug(s) is entirely based on medical rationale and that drug therapy is an effective and safe treatment

Appropriate drug. The selection of drugs is based on efficacy, safety, suitability and cost considerations.

Appropriate patient. No contra-indications exist and the likelihood of adverse reactions is minimal, and the drug is acceptable to the patient.

Appropriate information. Patients should be provided with relevant, accurate, important and clear information regarding his or her condition and the medication(s) that are prescribed.

Appropriate monitoring. The anticipated and unexpected effects of medications should be appropriately monitored.

Unfortunately, as all of us are well aware, reality as regards to rational prescribing is otherwise. Prescribing most often does not conform to these criteria and can be termed as inappropriate or irrational prescribing.

Common examples of irrational prescribing are:

The use of drugs with doubtful/unproven efficacy, e.g., the use of antimotility agents in acute diarrhea

The use of unnecessarily expensive drugs, e.g.the use of a third generation cephalosprin, when a first line agent is indicated or a broad spectrum antimicrobial when a narrow spectrum drug would do

The use of drugs when no drug therapy is indicated, e.g., antibiotics for upper respiratory infections, diarroea and viral fevers

The use of drugs of uncertain safety status, e.g., use of dipyrone (Baralgan, etc.)

The use of the wrong drug for a specific condition requiring drug therapy, e.g., tetracycline in childhood diarrhea requiring ORS

Failure to provide available, safe, and effective drugs, e.g., failure to vaccinate against measles or tetanus, failure to prescribe ORS for acute diarrhea

The use of correct drugs with incorrect administration, dosages, and duration, e.g., the use of oral steroids in asthma when inhaled steroids would be much more efficient and safe

Other common and widespread irrational prescribing practices include:

Overuse of antibiotics and antidiarrheals for non-specific childhood diarrhea,

Indiscriminate use of injections, e.g., in malaria treatment

Multiple drug prescriptions, fixed dose combinations

Use of antibiotics for treating minor ARI

Minerals and tonics for malnutrition

Of course, rational prescribing is not as easy as it sounds. The drug use system is complex and varies from countrywise. Drugs may be imported or manufactured locally. The drugs may be used in hospitals or health centers, by private practitioners and often in a pharmacy or drug shop where OTC preparations are sold. In some countries all drugs are available over the counter! In India, there are a lot of alternate systems of medicines and many practitioners prescribe allopathic medicines. There are a large number of quacks without any knowledge of rational prescribing. Last but definitely not the least the public includes a very wide range of people with differing knowledge, beliefs and attitudes about medicines. Many a time, the patient expects a particular drug and hints or directly asks for that to the doctor or pharmacist.

Factors Underlying Irrational Use of Drugs

There are many different factors which affect the irrational use of drugs. In addition, different cultures view drugs in different ways, and this can affect the way drugs are used. In India, this can therefore be a complex maze with multiple cultures, religions, dialects and castes. If one were to broadly classify the factors, they could be divided into: those deriving from patients, chemists shops, prescribers, the workplace, the supply system, industry influences, regulation, drug information and misinformation.

In each group, there can be various ways contributing to irrational use of drugs:

Patients - drug misinformation, misleading beliefs, patient demands/expectations

Prescribers - lack of education and training, inappropriate role models, patient pressures, lack of objective drug information, company incentives, limited experience, misleading beliefs about drug efficacy, competition

Chemist shops - patient pressures, profit motives, competition

Workplace - heavy patient load, pressure to prescribe, lack of adequate lab capacity, insufficient staffing

Drug Supply System - unreliable suppliers, drug shortages, limited budgets necessitating fixed choices, expired drugs supplied

Drug Regulation - non-essential drugs available, inefficient audit system, inadequate legal implementation, non-formal prescribers

Industry - promotional activities, misleading claims, incentives

Impact of Irrational Drug Use

Irrational drug use can have various consequences, for the patient, the public, the health system and even the economy. A few important consequences are mentioned below:

- Reduction in the quality of drug therapy This can lead to increased morbidity and mortality
- Waste of resources This can lead to reduced availability of other vital drugs and increased costs
- Increased risk of unwanted affects adverse drug reactions and the emergence of drug resistance
- Psychosocial impacts patients may believe that there is "a pill for every ill"

A focused case of irrational drug use and its consequence – the antimicrobial misuse problem

Irrational prescribing and dispensing issues come to the fore when it comes to antibiotic use. I would like to therefore focus on this issue and how it has impacted society.

The problem of antimicrobial resistance was one of the important issues brought up at the World Health Assembly (WHA) in 2005.

The WHO says that antimicrobial resistance is one of the world's most serious public health problems. A major reason is the irrational use of medicines.

According to WHO, worldwide, more than 50% of all medicines are prescribed, dispensed or sold inappropriately, and 50% of patients fail to take them correctly. The consequence of this is seen directly with the misuse of antibiotics

There is increasing antimicrobial resistance, with resistance of up to 70-90 percent to original first-line antibiotics for dysentery (shigella), pneumonia (pneumococcal), gonorrhoea, and hospital infections (staph. Aureus).

A WHO policy paper on "Containing antimicrobial resistance" says that many of the microbes that cause infectious disease no longer respond to common antimicrobial drugs such as antibiotics, antiviral and antiprotozoal drugs.

The problem has reached unprecedented proportions that unless concerted action is taken worldwide, we run the risk of returning to the pre-antibiotic era when many more children than now died of infectious diseases and major surgery was impossible due to the risk of infection. WHO's data show the following antimicrobial resistance global prevalence rates: malaria (chloroquine resistance in 81 out of 92 countries); tuberculosis (0-17% primary multi-drug resistance); HIV/AIDS (0-25% primary resistance to at least one antiretroviral drug); gonorrhoea (5-98% penicillin resistance); pneumonia and bacterial meningitis (0-70% penincillin resistance in streptococcus pneumonia); diarrhoea: shigellosis (10-90% ampicillin resistance, 5-95% cotrimoxazole resistance); hospital infections (0-70% resistance of staphylococcus aureus to all penicillins and cephalosporins). Another WHO paper says that irrational medicines use includes use of more medicines than are clinically necessary, inappropriate use of antimicrobial agents for non-bacterial infections; inappropriate selection or dosing of antibiotics for bacterial infections; over-use of injections when oral formulations are more appropriate; failure to prescribe in accordance with clinical guidelines; and inappropriate self medication often of prescriptions-only medicines.

Referring to the HIV/AIDS, TB and malaria epidemics, the paper says "concerns are growing about accelerating rates of anti-microbial resistance and rising prices for alternative anti-microbial agents to treat infections due to resistant pathogens."

Antimicrobial resistance in the Indian context is also on an ever increasing rise. This is mainly attributed to antibiotic misuse at three levels, human misuse, animal misuse and environmental misuse. It remains to be seen how each is having an impact on resistance levels. Human misuse is the most widely documented of the three.

In a study done to measure the misuse of antimicrobials in predominantantly viral conditions such as diarrhoea, URI and fever with myalgia, it was seen that a high percentage of patients received antibiotics. In Uttar Pradesh, it was as high as 80%, in Tamil Nadu, 70%, whereas in Kerala it was only 40%. This brings us to the fundamental question whether other factors besides drug promotions and profit such as socioeconomic conditions, literacy etc are factors which influence use of drugs. In another study supported by WHO in Vellore district, an attempt was made to establish a model to compare antimicrobial resistance and usage patterns. It was found that approximately 42% of all outpatients were being given antibiotics. It was also noticed that various stakeholders were responsible for overusing various types of antibiotics. Private practitioners preferred antibiotics such as ciprofloxacin, whereas pharmacists dispensed both amoxicillin and ciprofloxacin. Due to limited availability of antibiotics in government facilities, cotrimoxazole was highly used.

These observations hold valuable lessons in pointing to the factors that drive irrational drug use. Accessibility and availability were key issues in the governmental facilities whereas peer competition, pressure to cure and industry incentives contributed in the private health facilities. In both areas, patient expectations was a key contributing factor

What can be done?

The WHO lists measures that governments can take. One of the interventions suggested relate to drug sales promotion. "Pharmaceutical promotion often has negative effects on prescribing and consumer choice, but regulation of promotional activities has been proven to be one of the few effective interventions,"

"Countries should therefore consider regulating and monitoring the quality of drug advertising and of the pharmaceutical industry's promotional practices, and enforcing sanctions for violations." Strategies to target the stakeholders such as doctors and pharmacists need to be thought about. Proper training on the approach to therapeutics, minimizing the impact of industry incentives, a peer process to reduce irrational prescriptions are just some of the ways that can be adopted. Last but not the least, public awareness and health education are key issues to be dealt with. If a layman is made to understand the difference between viral and bacterial illness, it makes it easier to understand that antibiotics are not needed in viral conditions.

Although there have been previous WHA resolutions, and a WHO programme on rational drug use, not much has been done in countries. Very little is being spent to promote rational use of medicines. The global sales of prescription drugs in 2000 were \$282.5 billion and drug promotion costs in the US were \$15.7 billion the same year. In 2002-03, global WHO expenditure was \$2.3 billion, of which the WHO expenditure on promoting rational drug use was only 0.2%.

The WHO is tackling the issue through advocacy, the essential medicines list, training programmes and a WHO global strategy on anti-microbial resistance.

There was inadequate implementation of rational medicines use in countries, with only 26% of countries having a national strategy and only 50% of countries having public education in the past two years.

Irrational drug use is a very serious global public health problem and much more policy implementation is needed at national level. Rational use could be greatly improved if a fraction of the resources spent on medicines were spent on improving use.

Examples of successful national programmes for rational drug use are found in Indonesia, and the Swedish Strategic Programme for Rational Use of Anti-microbial Agents.

In conclusion, the need of the hour is to develop a coherent, comprehensive and integrated national approach to implement the strategy for irrational use of drugs; to enhance the qualtiy use of medicines through using national standard-practice guidelines for common diseases; and to strengthen legislation; and to mobilize resources to promote sustainable, practical and cost – effective interventions for rational use of medicines by providers and consumers. The question is - do we have the courage and can we develop an optimal strategy to confront the factors promoting irrational use and move towards rational drug use?

WHAT YOU CAN DO

Get involved. Learn more about the issue. Write to your political leaders and tell them about your concerns. Ask them to guarantee sufficient research into neglected diseases by funding drug development based on the specific health needs of developing countries. Write to pharmaceutical companies urging them to make essential medicines available and affordable to people in poor countries. Ask the industry to invest in and cooperate with initiatives aiming to develop new cures for neglected diseases.

You will find more information about access problems and possible solutions on the MSF Access Campaign website www.accessmed-msf.org.

If you are interested in volunteering for MSF, please visit www.msf.org.





Médecins Sans Frontières

Campaign for Access to Essential Medicines

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Médecins Sans Frontières (MSF) is an independent humanita:ian medical relief organisation assisting victims of armed conflict, epidemics and natural or man-made disasters. Founded in 1971, with national branch offices in 18 countries, MSF delivers aid through over 500 medical programmes in nearly 80 countries around the world. MSF was awarded the Nobel Peace Prize in 1999.

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MILLIONS HAVE A DRUG PROBLEM. THEY CAN'T GET ANY. APRES.



INFECTIOUS DISEASES KILL OVER 14 MILLION PEOPLE EVERY YEAR.
THAT'S OVER 38,000 DEATHS EACH DAY - NINE OUT OF TEN OCCURRING IN DEVELOPING COUNTRIES.

MANY OF THESE DEATHS COULD BE AVOIDED WITH THE HELP OF APPROPRIATE MEDICINES.
BUT ESSENTIAL MEDICINES ARE A LUXURY: ONE THIRD OF THE WORLD'S POPULATION HAVE NO ACCESS TO THEM.

TOO POOR TO BE TREATED?

The extraordinary medical advances of the past decades currently benefit mankind unequally. While pharmacies in developed countries offer a huge choice of treatments for a variety of conditions, millions of the world's poorest and most vulnerable people have no access to medicines that could save or extend their lives.

DOCTORS WITHOUT MEDICINES

Médecins Sans Frontières has been delivering medical care to populations in distress and victims of disasters and armed conflict "without discrimination and irrespective of race, religion, creed or political affiliation" (*) for more than 30 years. Infectious diseases claim more lives than wars. As a medical humanitarian

organisation, MSF redresses both the open violence of conflicts and the hidden violence and discrimination brought about when people can't access lifesaving medicines.

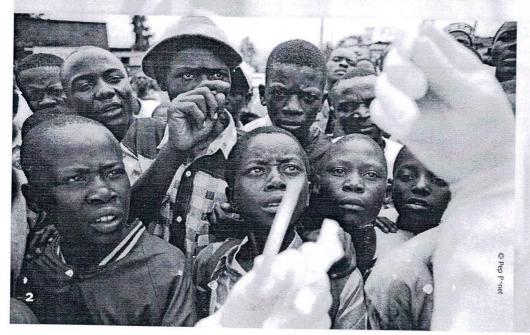
(*) MSF's charter

MSF staff are increasingly finding that effective treatments are unaffordable or unavailable. Many life-saving drugs are priced out of reach of the majority of those who need them. Some drugs have been withdrawn from the market for lack of profitability. This was the case of effornithine, a medicine used to treat people with sleeping sickness, a fatal disease only found in Africa. For other diseases, there are simply no drugs. For instance, there is currently no cure for the chronic form of Chagas, a disease that kills 50,000 people in Latin America every year.

FROM FRUSTRATION TO ACTION

In 1999, MSF launched a project specifically aimed at getting essential medicines to those who need them most. A logical extension of MSF's tradition of speaking out, the Campaign for Access to Essential Medicines combines the expertise of MSF medical staff, lawyers, pharmacists and laboratory technicians, as well as communications and advocacy professionals. The campaign is firmly rooted in MSF's field experience: the lack of access to life-saving medicines witnessed by our medical professionals at local level drives our advocacy at international level.

The following pages describe the access crisis and what MSF is doing about it.





In 200, 'o Thai people with HIV/AIDS won a court case against the pharmaceutical giant Bristol-Myers Squibb, thus overturning BMS's patent on ddl, an AIDS drug. This opens the way for generic production of the medicine. Generic drugs produced by the Thai government's pharmaceutical organisation are up to 25 times cheaper than equivalent originator products. The picture shows the activists filing their claim at the Thai Central Intellectual Property and International Trade Court in 2002.

OVERCOMING ACCESS BARRIERS

PRICE: life-saving drugs must be affordable

The single most important factor in forcing down the prices of medicines is generic competition. The lowest price of an AIDS drug combination plummeted from more than US\$10,000 per patient per year to less than US\$200 between 2000 and 2004. But many AIDS drugs, malaria treatments, antibiotics and other life-saving medicines are still unaffordable for people and governments in developing countries.

MSF constantly analyses drug prices and makes updates available to national and international buyers. We also negotiate with generic and originator drug makers to lower their prices.



PATENTS: medicines aren't just any consumer goods

A drug patent holder can sell its medicine at any price for the duration of the patent, usually 20 years. But the high price of a medicine can be a matter of life and death for a

patient, and amount to extraordinary health expenditures for governments of developing countries.

The rules governing pharmaceutical patents are enshrined in the Trade Related Aspects of Intellectual Property Rights (TRIPS) Agreement of the World Trade Organization (WTO), signed in 1994. The agreement includes safeguards that

A small boy with sleeping sickness. Uganda. 60 million Africans live in areas infested with tse tse flies that transmit sleeping sickness, a disease that kills if left untreated. The progression of the disease is determined with the help of a lumbar puncture, a painful and potentially dangerous procedure. While some of the current treatments are effective. they require hospitalisation, wellequipped clinics and specialised staff. Simpler drugs and diagnostics would greatly improve prospects of eliminating the disease. MSF has been treating people with sleeping sickness in sub-Saharan Africa since 1986.



countries can use to ensure patents do not limit access to medicines. For instance, countries can allow the production or importation of generic medicines without the consent of the patent holder, or look for the cheapest available version of the brand-name drug on the global market.

MSF is encouraging implementation of national regulations that will offer maximum flexibility to set patents aside in order to "promote access to medicines for all" (Declaration on the TRIPS Agreement and Public Health, adopted at the WTO Ministerial meeting in Doha, 2001).

MSF is also calling on governments to keep intellectual property rights out of regional or bilateral trade agreements negotiated between countries. These agreements impose more stringent patent protection than required by the TRIPS Agreement and hamper the use of more affordable, generic medicines in other ways.

Continued on page 8

THE ACCESS CRISIS THE ACCESS CRISIS THE ACCESS CRISIS

AIDS

40 million people infected, 90% of them in developing countries. Three million deaths in 2003.

Around 50 companies produce antiretroviral (ARV) drugs worldwide, and new treatments and potential vaccines are being developed because there is a Western market for them. But people living with HIV/AIDS in developing countries are still neglected: out of the six million people who need ARV treatment immediately, only 440,000 have access to it.

MSF is providing ARV treatment as part of a continuum of care for over 13,000 people in more than 20 countries, and expects to be treating many more in the years to come.

Our ability to increase the number of patients

on treatment has partly depended on the use of fixed-dose combinations (FDCs) of ARVs – that is, pills containing several AIDS drugs in one tablet, which makes them easy to use. The cheapest FDCs are now offered for less than US\$200 per person per year.

But there are still major challenges in accessing AIDS treatments. Pregnant women and children with HIV/AIDS have few choices of appropriate, affordable drugs. When peoples' first triple therapy fails and they need to switch to second-line treatment, prices shoot up. The least expensive second-line treatment recommended by WHO costs five to ten times more than the cheapest first-line therapy.

In addition, monitoring treatment failure and diagnosing common co-infections such as tuberculosis is very difficult with current means.

Wanted: Simplified, affordable AIDS drugs and new monitoring tools to achieve access to ARVs for those who need it.

Malaria

500 million new infections and up to two million deaths every year.

Malaria is caused by parasites transmitted by mosquitoes. It kills one child every 30 seconds, and children in rural Africa are particularly vulnerable to it.

Malaria parasites have become increasingly resistant to old drugs like chloroquine. Because easy-to-use diagnostic tests to confirm whether a person actually has malaria are not available in poor countries, many people who haven't got malaria end up being treated for it. This encourages drug resistance.

Effective drugs exist. Artemisinin, a potent drug extracted from a Chinese plant, has been used successfully in Asia since the early 1990s. Combinations of drugs containing artemisinin (so called ACTs) have now been internationally recommended as the best current treatment for malaria, and governments in many countries are switching to using them.

MSF treats over one million people for malaria in nearly 40 countries every year.

Wanted: Affordable rapid diagnostic tests for malaria adapted for use in resource-poor settings. Artemisinin-containing fixed-dose combinations. More R&D to discover new classes of malaria medicines.

TB

One third of the world's population carries TB bacilli. Every year, eight million people develop active TB and two million die from it.

Tuberculosis, or TB, is a bacterial infection best known for the form infecting the lungs. Fuelled by the HIV/AIDS pandemic, TB is on the rise, particularly in developing countries. An estimated 12 million people worldwide are infected with both TB and HIV, but the coinfection is hard to diagnose and treat.

Feeling better a few weeks into their long and arduous TB treatment, people often stop taking their drugs. Treatment interruption creates super-bugs that don't respond to any existing treatment and can spread to other people.

Despite these alarming facts, no new cure for TB has been introduced in the past 40 years.

In 2003, MSF treated over 20,000 people with TB in more than 20 countries worldwide.

Wanted: Diagnostic tests that detect all forms of TB in all patients, including children and HIV-positive people. Shorter treatments with smaller pill counts. Effective treatments for multi-drug resistant TB.

Chagas

100 million people at risk across Latin America. 50,000 deaths per year.

Chagas is caused by a parasite transmitted by bloodsucking insects. People can be infected but show no symptoms for years. Developing over time, chronic Chagas causes irreversible damage to the heart, oesophagus and colon, and Chagas sufferers usually die of heart failure.

Existing Chagas treatments are toxic and take one to two months to complete. They are only effective in the acute and undetermined stage of the disease in children. There is no treatment for chronic Chagas.

MSF cares for Chagas patients in Bolivia, Guatemala and Nicaragua.

Wanted: New diagnostic tests and medicines for Chagas. Availability of existing drugs.

Kala azar

An estimated 60,000 deaths per year.

Visceral leishmaniasis or kala azar, a parasitic disease transmitted by flies, causes fever, anaemia and an enlarged spleen. If left untreated, kala azar kills. Many infections and deaths may go unreported as people suffering from kala azar often live in remote areas and never make it to a clinic. Co-infection with HIV/AIDS is worsening the situation.

MSF has treated over 60,000 people with kala azar in Africa since 1988.

But our efforts continue to be dwarfed because drugs commonly given as first-line therapy are old, toxic, expensive and impractical for use in poor countries. Rapid diagnostic tests are also only just beginning to be introduced and their affordability needs to be ensured.

Wanted: New, easy-to-use and affordable drugs and diagnostic tests for kala azar.

OVERCOMING ACCESS BARRIERS

Continued from page 5

NEGLECTED DISEASES:

MSF co-founded a new drug development organisation

Sleeping sickness, leishmaniasis and other diseases that afflict and kill millions of poor people every year have so far attracted little interest from profit-driven pharmaceutical companies. This is compounded by the fact that governments and the international community have failed to encourage research and development of new drugs for these neglected diseases.

Aspiring to compensate for this neglect by delivering new medicines within the shortest possible time frame, MSF has joined forces with five renowned public and private research institutes and the UN's health agency WHO to create the Drugs for Neglected Diseases initiative (DNDi). An independent notfor-profit organisation, DNDi was launched in July 2003. Its objective is to develop new drugs to fight neglected diseases, raise awareness of the need for this work, and use and strengthen existing R&D capacity in the countries hardest hit by these diseases. DNDi is working on nine projects addressing identified needs for the treatment of leishmaniasis, sleeping sickness, Chagas disease and malaria (see www.dndi.org for more information).

supposed to tell my patients with chronic Chagas they can't be treated because they are too poor? Governments need to take responsibility for public health – drug development must be driven by need, not profit."

Dr Wilma Chambi, MSF, Bolivia

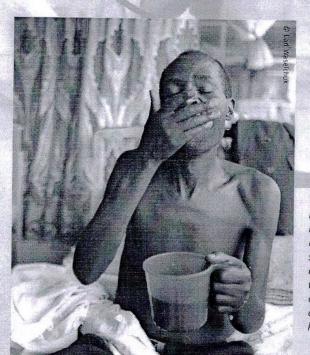
The work of initiatives such as DNDi can contribute to, but not replace, governments' efforts to address the unmet medical needs of people in developing countries. MSF will continue to play an active role in DNDi, advocate for more R&D into diseases that only afflict people in developing countries, support needs-driven drug development, and participate in defining the research needs for neglected diseases.

DIAGNOSTIC TESTS: precision instead of guesswork

Many of the people MSF doctors see could be treated. But how do you prescribe a cure if you can't determine what ails the person to begin with? Most people coming to a clinic in developing countries are diagnosed on the basis of clinical symptoms and signs, such as fever. This may lead to incorrect diagnosis and growing drug resistance.

When there is a test, it is often poorly adapted to resource-poor settings. For instance, the most commonly used TB diagnostic test was developed in 1882 and detects only half of those with active TB – even when used by highly skilled staff.

The importance of easy-to-use diagnostic tests is growing. For instance, now that new, more potent malaria medicines are becoming available to many developing countries, reliable malaria tests are even more critical: they ensure that people are treated for the real cause of their fever, and that only those who actually have malaria are treated for it, so we don't create resistance to the new drugs within communities that badly need them.



MSF calls for rapid diagnostic tests that are easy to use, affordable and adapted to the needs of developing countries.

The most modern TB treatments are nearly half a century old. Like this man in Kenya, people need to take their drugs for several months under medical supervision. Diagnosing TB reliably in children, HIV positive people or people with extra-pulmonary forms of the disease is not possible with current diagnostic tests. TB is the number one killer of people with HIV/AIDS.

OVERCOMING ACCESS BARRIERS



In 2001, over 250,000 people worldwide signed a petition, joining a wave of public opinion that forced 39 pharmaceutical companies to drop their court case against the South African government over a law designed to make medicines more affordable.

"Millions of people worldwide are dying of treatable diseases like malaria while effective drugs exist. It's simply unacceptable."

Dr Gabriel Mufuta, MSF, Guinea

QUALITY of medicines:

It is critical that health providers worldwide are able to procure and use essential medicines that meet adequate quality standards.

MSF supports the World Health Organization's prequalification project that facilitates identification of quality essential medicines and has dramatically improved access to AIDS drugs in particular

WHAT HAS BEEN ACHIEVED?

MSF and others working to improve access to medicines have catalysed some change - because enough people have made enough noise. The UN is now putting more emphasis on addressing and funding the fight against HIV/AIDS, TB and malaria. Governments of developing countries are beginning to tackle the AIDS pandemic using cheaper, generic drugs, and these are being funded through various international initiatives and philanthropic organisations. 'Neglected diseases' are getting more attention and initiatives are being set up to develop new treatments for them. The UN's health agency WHO is reclaiming leadership on some issues related to access to medicines, and is giving more progressive advice to countries on malaria treatment, for

example. Pharmaceutical companies have reduced the prices of some of their essential medicines.

But this is just a fraction of what is required. Governments, drug manufacturers and international organisations can, and must, do more.

WE STILL NEED:

- More political will at national and international level to put lives before profits.
- Increased competition between drug producers in order to lower drug prices.
- A boost in resources for research and development into new medicines and diagnostic tests based on actual health needs in developing countries.

