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Health Guide For Teachers in School Health Work



SCHOOL HEALTH PROGRAMME



M. G. D. M. HOSPITAL, Kangazha, Kottayam, Kerala.

PREFACE

It is estimated that one-fifth of the country's population is comprised of school going children. Hence health care of this group assumes paramount importance. Although school health service is considered important among the national priorities in health, this service is largely unavailable for want of resources both in personnel and in kind. It is impracticable for a country like ours to have a system in which we have physicians to take direct responsibility for the care of school children.

The role of teachers in health care of the community is increasingly being recognised. They certainly can share part of the responsibility in school health work. Based on this philosophy, the community health department of M. G. D. M. Hospital has launched a new system of school health work involving teachers in the various levels of health care delivery to pupils. This publication is intended as a guide for our teachers who are so graciously involved in this new venture.

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SECTION I

INSTRUCTION AND STANDING ORDERS

(a) HOW TO RECOGNISE A SICK CHILD?

The teacher is in a unique position to carry out 'daily inspection' of children as he is familiar with children and can detect changes in the child's appearance or behaviour that suggest illness. The following clues will help the teacher in suspecting that the child is ill. (1) Child is less active is irritable and fretful and not attentive in the class (2) Has an unusually flushed face. (3) Has red or watery eyes. (4) Has rashes or spots on the body or face (5) Has a running nose, or sneezing (6) Complains of sore throat (7) Complains of car-ache (8) Has a rigid neck (9) Has swelling over the face and other regions eg. Mumps, Dental abscess.

Then what do you do?

Inspect child closely to assess the scriousness of the child's problem, Take a history as to the duration and severity of the symptoms. Try to assess if the child's condition is serious enough to send for medical aid. Decide if the child has any one of the communicable diseases such as mumps, chicken pox, which are highly infectious; if so, the child should be removed from the school environment as early as possible.

(b) COMMON SYMPTOM'S AND THEIR MANAGEMENT Fever

Is a common symptom of many diseases especially the infectious diseases such as chicken pox, measles, mumps etc: Record the temperature. If the fever is high (over 101°—102°F) child needs to be sent to the doctor immediately. Look for rashes or spots on the body or face; look for swelling on face and check angle of the jaw for mumps. Examine throat for inflamed tonsils. If the child has none of the above symptoms and is otherwise well, symptomatic treatment with antipyretics (Aspirin) may be tried for 1 or 2 days. If the fever-persists after 2 days, send the child to doctor.

If the child has got cough and cold with not much of fever or respiratory difficulty, he may be treated for a short period with a cough syrup. If child is not well after 48-72 hours or develops difficulty in breathing or any other serious symptom, he should be referred to the doctor.

ACHES AND PAINS

Headache:

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Mild headache of short duration associated with a running nose and bodyache is caused by influenza. These children can be treated symptomatically for short periods with cough syrup and analgesics such as aspirin. Headache is often caused by stress or strain, tension, sleeplessness etc. These cases can be treated with rest and analgesics such as aspirin. But if headache is persistent or recurrent, medical help shall be sought. Headache can be a symptom of severe brain disease such as mening its or, encephalitis, or brain tumour if it is associated with vomiting. If any child who has headache and also has of vomiting, shall be sent to the doctor immediately.

Tooth-ache:

For temporary relief of tooth-ache, clean the cavity with a swab of cotton wool on a toothpick; then pack the cavity with a bit of sterile cotton wool dipped in oil of cloves. Be careful not to drip the oil on the gums or tongue; it burns. If the pain comes not from a cavity but from some part of the gums or jaw, hold a hot-water bottle to the face on the side that aches. Aspirin may help to relieve pain temporarily. Send the pupil to a dentist if pain persists.

Earache:

If foreign body or discharge is not found, give aspirin.
Refer to the doctor if the child is not better after a period of observation.

Abdominal pain

May be caused by diet upsets, dyspesia or gaseous distension of stomach, but could also be caused by serious disease such as appendicitis. Suspect appendicitis if the child complains of

vomiting along with pain in abdomen which starts at the umblicus (Navel) and is associated with vomiting and fever. Give the child a few doses of carminative mixture \(\frac{1}{4}\) oz. three time day (diluted) for 1 or 2 days. If the symptom persists, send the child to the doctor.

Vomiting

Any child who has serious vomiting (more than one or two bouts) should be sent to the doctor.

Diarrhoca

Simple diarrhoca (loose, frequent, excessive bowel movements), resulting from dietary indiscretion, change of food or water, or from fatigue or tension, usually subsides in 12 to 48 hours. Relief is best accomplished by refraining from food for the first 18 to 28 hours. Because the body is dehydrated, replacement of fluids is important. Give the patient weak tea, lime juice, salted or salty broth every hour or after every bowel movement. Liquids should be tepid (not hot, not cold). Rest in bed may hasten recovery. When bowel movements have ceased for 18 hours, begin feeding the patient a light, bland diet—bread, kanji, well cooked rice, butter milk and liquids as above. Avoid spicy foods and do not use laxatives. If diarrhoea persists, consult the doctor. Severe diarrhoea with a large number of watery stools can be serious and the child should be hospitalised.

(c) EMERGENCIES AND FIRST AID

First aid for emergencies are given in alphabetical order for easy reference.

Bites-Animal

Wash the wound immediately under running tap water to flush out the animal's saliva. Then wash the wound for five minutes with a gauze dressing and plenty of soap and water. Rinse thoroughly with running water and cover with a dressing. Consult a doctor immediately.

Bleeding-Severe

Get the child to lie down to prevent fainting. To stop the bleeding, press a sterile gauze dressing or a clean handkerchief,

firmly over the wound with your whole hand. If the dressing becomes saturated with blood, lay a fresh dressing directly over the saturated one and continune pressure. If bleeding from an arm or leg cannot be stopped by direct pressure over the wound, try shutting off circulation in the artery supplying the blood by pressing firmly against it with the palm of your hand. Apply a tourniquet or tie with a handkerchief. Not to give things to drink, this may result in delay in setting the bones under an aestheria which requires that the stomach should be fully empty above the wound. Release the tourniquet after 10 minutes. If the bleeding continues, send child to hospital after reappling it. When the bleeding has stopped, bandage the dressings in place firmly, but not so tightly that you can't feel the pulse below or beyond the wound. Send the pupil to a doctor.

Bones-Fractures

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While waiting for the doctor, keep the patient warm, and treat for shock if necessary. If the broken bone protrudes through the skin and there is severe bleeding, stop the bleeding, but do not attempt to push the bone back in place. Make no attempt to clean the wound. Wait for medical aid. If no doctor is available and the bupil must be moved to receive medical aid, dress the wound if any. The fracture should be immobilised with splints to prevent further damage. For splints, use anything that will keep the broken bones from moving; newspapers or magazines for arms, I boards for legs. Make the splints long enough to reach beyond the joints above and below the fracture site.

If the limb must be straightened before splints can be applied. support the limb with a hand on either side of the fracture site while someone gently eases it into a position as nearly natural as possible. Pad improvised splints with cotton wool or clean rags and tie them snugly (but not too tightly) in place with bandages, belts, ties or strips of clothing. Body splinting may also be used: a fractured forearm against the chest for instance, or an injured leg against the sound one. Splinting is done merely to immobilize the fractured limb. If possible, don't splint and dan't move the patient at all. If the fracture is in the back, neck, pelvis or skull, don't attempt to move the patient. Don't assume that no bones are broken merely because the child can move the injured joint or limb. To avoid complications, get a doctor promptly.

not give fluids to drink, this may result in delay in setting the bones under anaesthesia which requires that the stomach should be fully empty.

Broken Neck or Back

If the child cannot move his fingers readily, or if there is tingling or numbness round his shoulders, his neck may be broken. If he can move his fingers but not his feet or toes, or if he has ingling or numbness in his legs, or pain when he tries to move his back or neck, his back may be broken. Loosen clothing round neck and waist. Cover the child and summon a doctor or ambulance. Don't move the child for examination. Don't lift his head to give him water. Don't let him try to move. The spinal cord extends down through the neck and back vertebrae, and any pressure or movement may cause damage to the spinal cord and result in Paralysis.

Burns - Chemical

Sluice the burned area thoroughly with water to dilute and remove the chemical. Then treat as you would a comparable heat burn. If an eye is burned by a chemical, sluice the eye gently but thoroughly with sterile water or with a saline solution. Cover the eye with a sterile dressing and consult a doctor immediately.

Burns and Scalds - Minor

Run cold tap water over the burn to reduce the pain. Wash your hands thoroughly before touching the burn, If the skin is not blistered, smooth on petroleum jelly and cover the burn with several dressings, one on top of the other. If the skin is blistered, cover the burn with sterile dressings, to prevent contamination. Don't apply ointment, oil or antiseptic. Don't break or drain the blisters.

Caution: Minor (superficial) burns or scalds may be dangerous if large areas are involved. Send the pupil for Medical attention.

Convulsions (Fits)

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In convulsive spasms the child's lips turn blue, his eyes roll upwards, his head is thrown back, his body is jerked by uncontrollable spasms. Don't try to restrain convulsive movement. Place the child on the floor, and turn his head to one side to allow saliva to drain. Move furniture so that he cannot injure himself. Put a rolled handkerchief between his teeth to keep him from biting his tongue. If he is feverish, place cool, wet cloth on his forehead and sponge his body with cold water. When the spasms subside, make him as confortable as possible. Convulsions do not usually last more than a few minutes. If the pupil is not known to have had convulsions in the past, send the child for urgent hospitalisation.

Cuts, Scratches, Abrasions

- 1. To minimize the possibility of infection, wash your hands thoroughly before treating any wound. Using sterile gauze, clean the skin round the wound with soap and running tap water. To avoid contamination wash away from the wound, not towards it.
- 2. When the area round the wound is clean, wash the wound itself with soap and running tap water for five minutes, using a fresh piece of gauze for each swabbing. Clean out all dirt and debris. If it is necessary to use tweezers to remove debris, boil them first for ten minutes or sterilize them in the slame of a spirit lamp.
- 3. Using sterile gauze, apply mild antiseptic to the wound and the skin surrounding it.
- 4. When the antiseptic is dry, cover the wound with sterile gauze held in place by bandage or adhesive tape.
- 5. Watch carefully for the signs of infection which may not appear for several days: (a) a reddened, hot, painful area surrounding the wound; (b) red streaks radiating from the wound up the arm or leg: (c) swelling round the wound, accompanied by shivering or feverishness. If infection appears, see a doctor at once.
- 6. Remember that there is always danger of tetanus (lock jaw) in any wound; in deep, extensive or dirty wounds, the threat is serious. If the child has been previously immunized with tetanus

toxoid (triple vaccine) and immunity has been maintained with refresher injections, toxoid given by a doctor at the time of injury will provide protection. But, if the child has not been immunized previously, toxoid cannot give immunity fast enough, and the doctor will then administer antitoxin. (Antitoxin gives temporary but not lasting immunity) Antitoxin should be followed by a course of 3 tetanus toxoid injections first along with the ATS, then 2nd after 6 weeks and 3rd 6 months after the first

Fainting

Place the person on his back, head low. Loosen tight clothing, apply cold cloth to his face and forehead, allow him to inhale aromatic spirits of ammonia. When he revives, give him hot coffee or tea. If the fainting lasts more than a minute or two, keep the patient covered warmly and summon a doctor. Fainting may be caused by fatigue, hunger, sudden emotional shoek, a poorly ventilated room, etc. The patient's breathing is usually weak, pulse feeble, face pale and the forehead covered with beads of perspiration. If the pupil merely feels faint, make him sit in a chair, bending forward, with his head between his legs and lower than his knees, and tell him to breathe deeply.

Head Injury - Fracture, Concussion

Suspect head injury in any traffic accident, fall or other incident of violence. Symptoms: child dazed or unconscious, bleeding from mouth, nose or ears; pulse rapid but weak; pupils of eyes unequel in size, paralysis of one or more extremities: headache or dizziness. Or the child may appear quite normal and have a momentary loss of consciousness or a lack of memory of the event causing the injury - only to lapse into unconsciousness later. Keep the patient lying down and covered for warmth until the doctor comes. Even though the blow may not have brought about unconsciousness, there is always danger of brain haemorrhage and serious trouble later. Lying quietly lessens the chance of haemorrhage. If the patient's face is flushed and if you're sure his neck or spine is not fractured raise his head and shoulders on a small pillow or jacket. If his face is pale, don't raise his head. If you must nove him, keep the patient lying flat while doing so. If he is

unconscious or choking, turn his body and head gently to , the side so that blood or mucus can drain from the corner of his mouth. If his scalp is bleeding, place a sterile dressing lightly over the wound, without pressure, and bandage it into place (Pressure may push bone fragments into the brain).

Do not permit the child to sit up or walk about. Don't leave him unattended. Get medical aid at once. Keep him lying down and completely quiet until help comes. If he is unconscious do not attempt to give him anything by mouth.

Nose Bleed

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Make the patient sit quietly, with the head thrown forward, and press the nostrils together for five minutes. This may cause a clot to form over the ruptured blood vessels. If this fails, pack each bleeding nostril with a plug of sterile gauze, leaving one end of each plug outside so that it can be removed from the nostril easily. Get the patient to lie down, with his head elevated, and place a cold wet towel across his face. Slight nose bleeds often occur spontaneously, particularly in children. In event of persistent nose bleed, consult a doctor.

Poisoning by Mouth

- 1 Contact the doctor immediately. Tell him what the suspected poison is and follow his instructions.
- 2 If you can't get medical advice, dilute the poison in the stomach by giving the child several glasses of milk or water Save the vomitus in a bottle for examination.
- child's mouth is burned, you can assume it's one or the other or paraffin or petrol, proceed to step 5. If it is n't, or if it is unknown, induce the child to vomit by sticking your fingers in to his throat or by giving him several glasses of warm water containing one tablespoonful of salt per glass. Keep his head low and turned to one side so that he won't inhale any vomit.
- 4 After the child has vomited, administer several more glasses of milk (two to four) or the whites of four raw eggs mixed with a glass of milk-

5 If the poison is a strong acid (such as carbolic) or alkali (like, ammonia) or parasiin or petrol, do not induce vomiting. Instead, attempt to dilute and neutralize the poison. Neutralize acids with two teaspoonfuls of magnesia to a glass of water. Neutralize alkalis with a teaspoonful of lemon juice or vinegar to a glass of water. Give several glassfuls, but not enough to cause vomiting. Then give a glass of milk or four egg whites. If the poison is parassin, petrol or similar solvent, merely administer four or five glasses of water. Get the child to a doctor or hospital. Always keep the container of poison to show to the doctor.

Puncture Wounds

- Gently squeeze or "milk" the wound, to encourage bleeding. (Punctures that are caused by nails, wires, needles, pins or any other penetrating objects tend to "seal in" contamination)
- 2 Wash your hands and then clean up the wound and apply an antiseptic.
- 3 Cover the wound loosely with a sterile dressing. Apply cold compresses.
- 4 Take the pupil to a doctor. The doctor will clean the wound, opening it further if necessary, and will administer a refresher injection of tetanus toxoid or an injection of tetanus antitoxin if necessary. The chance of child getting tetanus is high with puncture wounds.

Shock - How to treat it

In any serious injury (bleeding wound, fracture, major burns), always expect shock and act to lessen it. Symptoms: the skin is 3 If the poison is known to be a strong acid or alkali — if the pale, cold, clammy; the pulse is rapid: breathing shallow, rapid or irregular: the injured person is frightened, restless, apprehensive.

- 1 Keep the patient lying down with head at a lower level than
- 2 Loosen his clothing.
- 3 Keep him lightly covered, but do not cause sweating. Don't apply heat, such as a heating pad or hot-water bottle. The object is to conserve body heat, not to overheat the patient.
- 4 In the case of head or chest injuries, raise the patient's head and shoulders on pillows or rolled up coats so that his head

is ten inches higher than the feet. If the patient develops difficulty in breathing, lower the head as in Step. 1.

5 If the patient is conscious and thirsty, give him plain water (neither hot nor very cold), a few sips at a time. Do not give water if the patient is nauseated, or if he has a deep abdominal wound.

6 Shock due to loss of blood volume requires urgent hospital attention for blood transfusion.

Swallowed Objects

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Small round objects (beads, buttons, coins, marbles) swallowed by children usually pass uneventfully through the intestines and are eliminated. Do not give cathartics, laxatives or bulky foodsgive just the normal diet. If there is pain, consult a doctor. For several days, strain stool through muslin to determine whether object is eliminated. Sharp or straight objects (hair-pins, open safety pins, bones) are dangerous, and if the child has swallowed any one of them, immediately send the pupil to the hospital.

Throat - Something Caught in.

Encourage the victim to cough up the object. Do not probe with your fingers; probing is less effective than coughing and may push the object deeper. If coughing doesn't work, hold him headdown and slap him hard on the back between the shoulder blades or make him bend head-down, or lay him across something head-down, and slap him hard between the shoulder blades. If the substance cannot be dislodged, send for a doctor or ambulance.

SECTION II SIMPLE DENTAL CARE

Function of the Tecth.

Food must be broken into small pieces in the mouth so that It can be swallowed easily, and to enable further digestion in the stomach. It is, therefore, important that the teeth are well cared for as well as the gums around them so that they have a good chance of being kept healthy.

Dental Decay - How Dental Decay starts.

After each meal, food particles may remain in the cracks on the top of the teeth, or between the teeth. Bacterial action on this

food make an acid which dissolves the enamel of the tooth. A small hole therefore forms which will get bigger unless something is done about it. At this stage a dentist can remove the decayed part of the tooth and do a filling. If this treatment is not carried out the hole will get bigger and as it gets nearer the nerve pain will be felt.

Symptoms of Decay.

The pain will only be felt with hot, cold, sweet and acid foods at first, but later it will be felt all the time and will be severe. If the tooth is left untreated the decay will kill it and then an abscess may form. An abscess is an infection round the end of the root which has reached there from the decay in the crown of the tooth.

The symptoms of an abscess are:

- 1 The tooth hurts when it is knocked gently.
- There may be some swelling in the mouth next to the tooth.
- 3 The whole side of the face may be swollen.

Treatment:

If there is any swelling near the bad tooth it is usually advisable to give a course of antibiotics. When the swelling has subsided the tooth should be removed as soon as possible. If the extraction is not done, the swelling and pain will recur. If there is no swelling and you are quite sure which tooth is causing the pain it may be extracted by the dental surgeon.

Keeping the Teeth clean:

Dental decay and gum disease are caused by food resting on the teeth and gums, so when a pupil comes with bad teeth or gums it is important to teach him how to keep them clean so that he will not have trouble in the future. Often gingivities can be completely cured by cleaning the teeth and gums correctly. Instruction in cleaning the teeth is for everyone, not only for those who already have dental disease. Prevention is better than cure. Teach those who do not have gum disease so they are less likely to get it.

What to use for Brushing.

A small toothbrush, and toothpaste (dental cream) are the best means, but a stick (chewed at one end to make a brush) is quite good if it is used correctly. Common salt may be used on the stick or brush instead of toothpaste. Charcoal powder (umikkari) has been found to be of no value. Constant use will damage the enamel. Its action is only that of a polishing agent.

When to brush the Teeth.

After breakfast in the morning. It is no good brushing them before breakfast because you soon make them dirty again when you eat. Before you go to bed at night. It is important that you sleep with a clean mouth. If possible, after the midday meal also.

Method of cleaning Teeth.

Always start on the gum above or below the teeth and brush away from the gums over the teeth. When all the teeth have been cleaned like this, brush the tops. Ensure that each surface of each tooth has been brushed at least ten times. This is not always easy, especially at the back of the mouth, and it will require practice. After a short time however, it will become easier but should take at least two minutes. After brushing, the mouth should be thoroughly rinsed with water three times to wash away all the food that has been cleaned off the teeth.

Foods that are bad for the Teeth.

These are ones which stick to the teeth and most of them contain a lot of sugar, such foods being cakes, biscuits and sweets. If these foods are to be eaten they should be taken with meals because the teeth decay starts half an hour after sweet foods have been in the mouth. If these foods are caten between meals then the teeth will obviously be decaying for a longer time.

Foods that are good for the Teeth.

These are those vegetables and fruits which are firm and fibrous and which have to be chewed hard: pineapple, mangoes, coconut, apple. It is a good idea to eat foods like this at the end of each meal.

DISEASES OF THE GUMS

Gingivities.

This is the name given to inflammation of the gums. The pupil complains of soreness and bleeding of the gums. It is usually caused by food being left around and between the teeth. If the patient does not keep his mouth clean this condition gets worse and spreads down towards the root, destroying the fibres attaching the

tooth to the jaw. As this continues, the tooth begins to get loose and painful, and eventually it may be necessary to extract it. The condition is made worse by tartar (a hard substance which sticks to teeth that are not kept clean) which is most often seen behind the lower front teeth.

Treatment.

If there is tartar present this should be removed (scaling) with a special instrument. When this has been done, or if tartar is not present, the patient should be taught how to brush the teeth correctly. Brushing the teeth properly prevents food resting on the gums and the inflammation (gingivitis) should subside.

Acute Ulcerative Gingivitis.

This disease is not so widespread as simple gingivities but i_S also found in people who do not keep their mouths clean. It is often seen in young malnourished adolascent school children.

Signs.

Ulcers are seen along the margins of the gums, being next to one tooth or several. The mouth is very sore, and because of this the pupil may not wish to eat. The ulcers which may have a white covering, bleed easily and the patient's breath has a characteristic smell. Sometimes the patient feels generally unwell and may have a slight temperature.

Treatment.

Carefully apply a strong antiseptic on a very small piece of cotton wool to the ulcers. Do this once a day. Tell the child to keep the mouth clean. If it is too sore to use a brush, cotton wool or even a damp cloth may be used to wash the teeth. Rinsing the mouth with warm salt water after meals is also helpful. As soon as possible correct brushing with a toothbrush should be started. It is also important to ensure that the patient is having a balanced diet.

Section III

PREVENTION OF MALNUTRITION IN SCHOOL CHILDREN Protein and Calorie Malnutrition.

Child will be under-weight with stunted growth. (Weight and Height of children should be recorded annually and checked against the standard chart provided). Advise cheap sources of protein — Pulses should be advised to be eaten every day with rice;

ground-nut is a good source of protein, which is easily aval'able and cheap.

Deficiency Vitamin A.

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Desiciency of this Vitamin affects eyes and vision. Careful examination of the eyes with reveal deficiency of this vitamin. Keep eye open for 30 seconds and look for drynees of conjunctive (white portion). Also look for irregular white patches on this area (Bitot's spots). These are early evidence for Vit. A deficiency and also many complaints of night blindness i. e. inability to see in ding light. In advanced case of Vit. A deficiency the cornea will be affected with dryness or ulceration. If the cornea is affected, send the child to hospital immediately. Early cases of Vit. A deficiencies can be treated with A + D Cap, given daily for 1 or 2 months or Vit. A concentrate I dose or fish liver may also be used. Child shall be instructed to eat plenty of green vegetables such as 'cheera' to get good amounts of Vit A in diet.

Vit. C Deficiency.

Children with Vit. C deficiency will have unhealthy and bleeding gums. They should be asked to take fruits like 'oranges and goosebery and fresh vegetables'. Vit. C tablets also may be given for short periods.

Deficiency of Vit. B Complex.

Will be manifested by soreness of mouth and tongue, fissure of the angle of the mouth etc. Parboiled rice should be advised and also fresh vegetables. B complextablets could be given for a period of 1 or 2 months.

Iron Deficiency anemia.

Children with iron deficiency anemia will look pale, and in Prevention of Spread of Communicable Disease attentive in class and will be backward in studies. The nail and conjuctive will look pale. In doubtful case Hb. estimation should should be given in the form of tablets. Dosage 2 - 3 tablets a taplets a school. So target the specifies these diseases spread very should be given in the form of tablets. Besaged to consume an school. So teachers have a role in the prevention of spread of day for 2 or 3 months. Children should be asked to consume an school. So teachers have a role in the prevention of spread of day for 2 or 3 months. Children should be taken to be taken as cabage ommunicable diseases. This will be possible by early case detecdiet rich in iron such as green leafy regular will provide goodion and isolation and impossing quarantine for cases and their cheera etc. Jaggery taken instead of sugar and provided and in provided and instead of sugar and their amount of iron. Children with severe anemia (Hb. less 5 gm//sontacts. The following table will give the sign symptoms isolaamount of iron. Children with severe addition and quarantine period of some communicable diseases. done in all severe cases.

SECTION IV

IMMUNISATION AND PREVENTION OF COMMUNICABLE DISEASE

Small pox Vaccination

If the child is not vaccinated at the time of school admission, advise vaccination Revaccination is to be done once in 3 years. This vaccination prevents small pox. Following the vaccination, some pupils may develop excoriation and ulceration at vaccination This does not require any special treatment. However boric powder may be applied locally to reduce the inflamation. No other dressings or medicaments are to be applied. If any other untoward reaction develops, it should be reported to the school physician.

B. C. G.

Inspect children for vaccination scar at school entry (small puckered scar on the shoulder). If not vaccinated, arrange vaccination with school team. Revaccinate 5 years after the primary vaccination. B.C.G. helps to prevent tuberculosis and is helieved to be of some value in preventing leprosy.

Dipthreia. Tetanus Vaccination

At the time of school admission, find out if the child has received Triple Antigen and polio vaccine. If the child has not received them, make a note and arrange immunisation with school health team. 2 doses at 6 weeks interval will suffice. Booster dose of toxoid to be repeated every five years. Polio vaccination

Can be given to the children who have not received them but polio being common only in younger children, it may not be very necessary.

Above mentioned immunization help to prevent certain will look pale. In doubtilit east 110, so that 10 gm/ iron diseases in individual children. Sometimes these diseases spread very

Whooping cough (Pertussis) Mumps Infectious Hepatitis	Measles Smallpox Chickenpox	Disease S	Appendix I	17 School Formulary
Cold, paroxys; with whoop and Fever, headach in the jaws Fever, loss yellow urine, vo	High fever, cough, cold. red eyes, red spots on the face Fever, bodyache, crup- tions on the face Fever, headache, bodyache, eruptions on the body and extremities	Signs&Symptoms Throat pain,	Tablets Aspirin —	Dosage, uses and side effects Aches and pain, fever. One tablet 3 or 4 times a day to be taken after meals. (not to give on empty stomach)
B of c, s	red spots bodyache, the face eadache, boo ns on the be tries	Suggestions oms	Irom —	For treatment of iron deficiency. 2 or 3 tablets daily after meals, to be give for 2 or 3 months.
nal cough vomiting, swelling, swelling of apetite, miting	cold. on the erup- dyache, ody and		B. Complex —	One tablet twice daily for 1 or 2 months. For children with signs of B. Complex deficiency such as sore tongue and angle of mouth etc.
when swelling has dappeared. After first week of illness.	of of lay:	INFECTIONS DISEASES for quarantine regulations for quarantine regulations and may return to schoo and may return to schoo and may return to schoo and for recovery and after successive negative cus each from nose and taken after cessation o microbial therapy	A & D Capsules —	One or two capsules daily for one or two months for children with signs of Vit. A deficiency such as night blindness, dryness of conjunctive etc.
pical paro; swelling d.	n = n =	piseases regulations return to school very and after 2 very and after 2 very and of the coult return to school very and after 2 very and after 3 very and after 3 very and after 4 very and after 4 very and after 5 very and after 6 very and after 7 very and after 7 very and after 8 very and after 9 very and 4 very	Multi Vitamin —	One or two tablets daily for general debility and Vitamin deficiency states.
has dis- illness.	ot less than 24 at least 8 or 9 at least 8 or 9 after appearance and after dis- of seabs and of seabs and lly 3 to 6 weeks. and when crusts not sooner than on set.	ool ool r 2 or culture three of and and and	Mixtures Cough syrup —	One or two teaspoon 3 times daily for 2 or 3 days for children with common cold, cough etc.
No restriction	Exclusion from some practical value ticed, at least 14 clapse after last e 16 days after succenation Exclusion from practical value ticed, at least 2 clapse after exponse after exponse process of the second of t	Susceptible en When two cultures of are negat least 7 day	Carminative mixture-	daily for one or two days, For children who complain of miln paid abdomen, colics.
riction riction	Exclusion from school is of no practical value; when practiced, at least 14 days must lique, after last exposure 16 days after successful vaccimation Exclusion from school is of no practical value; when practiced, at least 21 days must riced, at least 21 days after exposure if clini 14 days after exposure if clini	contact ter school or more f nose a ive, or s after lan	Kaolin mixture —	½ oz. 3 times daily for one or two days for children who complain of mild diarrhoea.
	contacts may re- ter school. or more successive f nose and throat ve. or not for at safter last exposure from school is of al value; when prac- least 14 days must er last exposure ter successful vacci- from school is of cal value; when prac- least 21 days must ter exposure if clini- ffter exposure if clini-	Local applications Benzyl Benzoate —	(25./ solution) For treatment of scabies and pediculosis. To be applied all over the body except head and face after a	

bath at night to be repeated morning and bed time for 2 days and take bath after that. Treatment may have to be carried out for other members of the family and contacts.

Calamine lotion - For itching and urticaria. To be applied

locally.

Ointment

Furacin ointment - For infected skin wounds or other lesions.

Whitefield ointment— For treatment of superficial fungal infections of the skin such as ring worm.

Sulfa acetamide eye
drops (LOCULA)— For red eyes, (conjunctivities) and
Trachoma.

Appendix II

LABORATORY TESTS BY TEACHERS

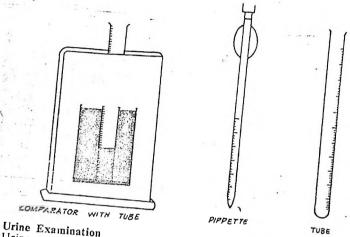
Haemoglobin estimation

Finger tip is cleaned thoroughly with spirit and is dried with a piece of cotton. The finger is held with a very gentle pressure on the sides. The needle is sharply plunged to a depth of 3 mm. deep. The pressure is released and blood is allowed to flow freely. The blood should be collected in the pippette within one minute.

PROCEDURE

Sahli Method

Place N/10 hydrochloric acid in the tube up to the lowest mark Blood is down into the pippette up to the 20 mark, and transferred in to the tube and mixed well. The tube is shaken well and wait for 10 minutes and allow the brown colour to develop. Then dilute the solution with distilled water drop by drop; tipe the colour matches with the glass plates of the comparator. Matching should be done in good sun-light. The reading is then taken, from the markings on the tube. (N/10 Hcl can be made by adding 1 ml. d con. Hcl. with 99ml. of distilled water).



Urine Examination
Urine sugar test (Benedicts test)

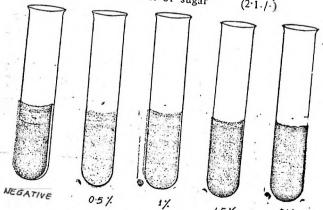
Take 5 ml. of benedicts qualitative reagent and to it add '8' drops of urine and boil for 3 to 5 minutes and note the colour of solution.

Blue colour (no sugar)

Green colour - small amount of sugar (0.5./-)

Orange colour | Moderate amount of sugar (1./-)

Red colour | Large amount of sugar (2.1./-)



Albumin test (sulphosalicylic acid test)

To 2 ml. of clear urine add an equal volume of 3./. sulphosalicylic acid and allowed to stand for 10 minutes.

No cloudiness - No albumin

Cloudiness against a black back ground —

Cloudiness with granules and definite floculation — Cloudiness with floculation —

Trace amount of albumin.

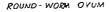
Moderate amount of albuming Large amount of albuming

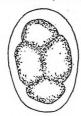
Motion examination for parasites

Take a small amount of faceal matter on the end of a narrowstick and make a thin emulsion in a drop of normal saling placed on a glass slide and put a cover slip over it. The thickness of the preparation should be such that one should be able to see fine prints through it and examine the slide under a microscope. Identity the parasites from the diagrams given below:

OVA OF COMMON PARASITES







HOOK-WORM OVUM



WHIP - WORM OV

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