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TOWARDS QUALITY OF CARE IN CHILD HEALTH PROGRAMMES: A CHALLENGE FOR THE PARTNERSHIP IN HEALTH AND SOCIAL SCIENCES*

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Abstract—Several child health care programmes, though often well conceived, are poorly implemented at field level and focus primarily on quantitative achievements to the neglect of quality of care. This paper presents a quality of care (QOC) framework for child health programmes from the perspectives of the management system of an organization and the provider-client interface at point of service delivery. The paper subsequently describes the application of qualitative and quantitative research tools drawn from the social sciences and health sciences for planning and evaluating quality of care. An integrated and complementary use of these tools is recommended. It is suggested that minimum standards, which are region specific, be articulated for quality maintenance in child health programmes. These standards may be upgraded as quality improves. Finally, the challenges which a partnership of the health and social sciences may have to take up are discussed. These include advocacy for prioritization of QOC in child health programmes, facilitating an environment which supports quality of care, promoting inter-disciplinary action research, training students in social science research in universities and research organizations, documenting success stories. (©) 1998 Elsevier Science Lid. All rights reserved

Key words-quality of care, child health programmes, developing countries

INTRODUCTION

several developing countries of the world, mamal mortality rate (MMR), infant mortality rate MR) and rates of malnutrition continue to be pressingly high. About 99% of maternal deaths to complications of pregnancy take place in seloping countries. The region with the largest repancy between births and infant deaths is ica, which has 20% of births and 29% of ths. In South Asia, the corresponding figures are and 61% respectively (Maine and Allman,) Several child health care programmes, wigh often well conceived, are poorly immented at field level and focus primarily on mutative achievements, such as number of benenies covered, and neglect the important area of by of care. For example, programmatic arch in India has revealed that maternal and health (MCH) services suffer from several setdue to insufficient planning, inadequate trainand supervision of manpower, lack of munication with intended beneficiaries and subpent poor utilization of services, culturally inapmate services and socio-economic constraints as inferior status of women (Dutta, 1993). afortunately, even at the highest policy making there does not appear to be adequate recog-

bird Asia and Pacific Social Sciences and Medicine Inference (February 11-16, 1996) at Perth, Australia. nition that a conscious effort is needed to operationally define quality of care in the context of child health programmes, its indicators and standards: and that a satisfactory level of quality cannot be automatically ensured. For example, the recently formulated National Nutrition Policy (1993) of the Government of India, articulates several important measures to improve child health, describes administrative and monitoring procedures, but does not elaborate on how quality maintenance can be ensured, nor on the role of research in this regard (Government of India, 1993).

In this paper, the evolution of the concept of quality of care (QOC) for health care systems, family planning programmes and women's health programmes is described. This is followed by an elaboration of a QOC framework for child health programmes. The importance of a partnership between the social sciences and health sciences for operationalizing a QOC framework is then highlighted, followed by suggestions of some research tools for planning and evaluating QOC. Examples from the author's research experience on process evaluation of selected child health programmes are given in the appropriate sections.

QUALITY OF CARE: EVOLUTION OF THE CONCEPT

According to Mensch, in the years following the Alma Ata conference, the concern of medical anthropologists regarding culturally appropriate

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care and community involvement in primary health care laid the ground work for much of the ensuing work on quality of existing services (Mensch, 1993). Elaborating on the concept of continuous quality development' proposed in 1993 by the WHO Regional Office for Europe and the Danish health authorities, Racoveanu and Johansen have stated that, in essence, continuous quality development involves setting and achieving goals for quality on a continuous basis (Raceveanu and Johansen, 1995). Health care of good quality encompasses the three areas of:

• structure (organizational settings of care),

• process (skills deployed in delivery of services).

• outcome (effects of care given on health and well-being of patients).

According to the authors, medical technology impinges on all these three components and has a profound effect on continuous quality development with particular reference to utilization, appropriateness and cost-benefit of technologies.

Saturno has highlighted the importance of voluntary (as opposed to mandatory) commitment to quality, especially in situations where the state owns and provides most health care and where health personnel are salaried employees. Professionals delivering health care should be motivated and involved in qualitative assurance on a voluntary basis as a part of a clearly defined strategy (Saturno, 1995). Describing the Iberian Programme of Training and Implementation of Quality Assurance Activities in Primary Health Care, the author reports that training was the most important strategic factor for success, along with implementation of principles of planned change, including building on strengths, analyzing systems, identifying influential persons and fostering a sense of the need for quality assurance. Bruce operationalized a quality of care framework for family planning programmes and emphasized that improvement in quality of care is an important determinant of contraceptive acceptance and sustained use (Bruce, 1990).

Defining quality in terms of the way individuals are treated by the system providing services, Bruce and Jain have emphasized that client knowledge and satisfaction with the care received should not be viewed simply as bridges to continued use, but also as valued end products of conscientious management and caring service (Bruce and Jain, 1990). Building on Bruce's family planning framework.

Mensch has suggested a list of four elements for a women's health care QOC framework (Mensch, 1993):

(1) provider-woman information exchange: conveying information to women regarding diagnosis, treatment options, side effects, and listening to and understanding women:

(2) provider competence with regard to knowl edge of disease and treatment;

(3) interpersonal relations: sensitive treatment of women including privacy, respectful behaviour, giv. ing adequate time:

(4) mechanisms to encourage continuity of care information about follow-up visits, referrals, other available services.

Child health care programmes, unfortunately, have received scant attention with regard to systematic development of a comprehensive Oor framework and its field level application. What is documented in literature are examples of process and/or impact evaluations of child health programmes.

In India, a recent process evaluation study on integrated child development services (ICDS) in the State of Gujarat (India) had a client-centred form (Kanani and Zararia, 1996). It sought to elicit perceptions and service utilization patterns of ICDS beneficiaries, as well as beneficiaries contribution to ICDS, through the use of a mix of qualitative and participatory research methods. Data gathered from five regions in Gujarat (Fig. 1) revealed that:

 Though the ICDS is conceptualized as an integrated scheme, it was not implemented as such at field level. Selected services receive more emphasis while others are neglected

on factors such as regular availability and accessbility of service, quality of implementation, rapport of ICDS worker with community members, perceived benefit of service by people.

• In ICDS centres where the field functionaries were motivated and gave 'good' quality care as perceived by the people, the beneficiaries tended to use the services. Further, in such centres, the community, especially local NGOs, did contribute to ICDS in varying degrees, by way of voluntary time, land or space, or materials to run the cenfle. Poor management and inadequate administrative support w government authorities were key factors obstructing quality of care. These included lack of skill-based and hands-on training, acute shortage of basic intra terials to run ICDS centres, cursory supervision mechanical monitoring with little attention to quite ity of service and overburdened field functionary who had virtually no access to transport facilities From the study, the importance of developing

'human resource' in ICDS, the functionaries levels, became evident. An investigation was carried out on the manuf ment of national nutrition programmes within primary health care (PHC) system in the State

Madhya Pradesh, India (Kanani and Khan 1995). It was evident from the extensive interior and observation data that low priority given to component of the PHC programme affected the quality of its implementation example, one-year long observations of the



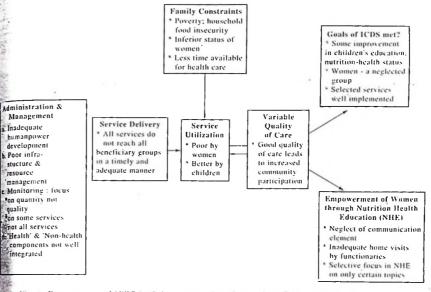


Fig. 1. Current status of ICDS in Gujarat: a snapshot picture of the findings of a social assessment study (Kanani and Zararia, 1996)

• Utilization by intended beneficiaries depended ind medical officers at the PHC centres in urban Tural areas revealed that functionaries at all heis devoted a major portion of their time in planand implementation of the family planning immunization programmes, as they considered more important than other programmes suding anemia control and vitamin A deficiency Mrol programmes. Material and financial burces, monitoring and supervision, and commucontacts were all geared towards family planand immunization.

> or quality implementation of nutrition promes was reflected in irregular and inadequate Thes of vitamin A and iron, poor record mainice, infrequent supervision and training. Not isingly, there was a high prevalence of vitamin ficiency (Bitot's spots) and anemia (Hb levels) reschool children and pregnant women in the areas. The authors stated that unless strong acy efforts are made to convince policy of the importance of controlling maternal child undernutrition, it is unlikely that the of national nutrition programme will

In the foregoing it is evident that a quality of framework for child health programmes in

d from a session conducted by the author as part training workshop organized by Women's Health cacy Cell of the Women's Studies Research tre (WSRC), Baroda, entitled, Action Linked arch for Women's Health, April 1994.

developing countries is needed, which will help focus attention on this issue and provide some direction towards this end. This paper elaborates on such a framework in the subsequent sections. The OOC framework is client-centred and focuses on process and outcome indicators which are likely to reflect QOC. Finally, a list of qualitative and quantitative research tools is suggested to help design and evaluate QOC in child health programmes.

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THE QUALITY OF CARE FRAMEWORK FOR CHILD HEALTH PROGRAMMES

In the context of caring for the health of children, QOC may be viewed from two perspectives*:

(1) The overall services and management system of an organization;

(2) The point of service delivery, that is, the provider-client interaction and outcome.

Tables 1 and 2 present the components of a suggested QOC framework for child health programmes, and indicators which will help measure these components.

COMPONENTS AND INDICATORS OF QOC FROM AN OVERALL PROGRAMME PERSPECTIVE

Client's needs

Meeting client needs in a culturally appropriate manner is imperative to ensure utilization of services by child caregivers. Service providers also

	Illustrative indicators
s of the physical infrastructure to deliver good	Space is adequate to permit child and caregiver to be comfortable Environment is clean
	 Facilities and supplies (essential drugs, vaccines, nutrient supplements) are adequate
Interaction	
	 Empathy and complete attention of provider towards clients Technical competence of providers regarding diagnosis, training, referral and education of clients
	 Number of home visits by service providers especially for care of 'high risk' clients
	 Return visits by clients for follow-up care

themselves. Hence there was evidently a need increase self-esteem among girls and sensitize Lents to the special needs of their daughters. insequently, sessions were designed to increase aconfidence and participation of girls; simulenusly our interaction with their parents also deliberately increased. These self-esteem develment sessions greatly enhanced receptivity and plyement of girls in the nutrition-education ses-

Provider

nity for

Acceptance of the programme by the truly needy ups, especially in a multi-ethnic society as in is crucial for its success. The process evalustudy of ICDS in Gujarat (Kanani and haria, 1996) revealed that in order to gain accepere from both the higher caste and lower caste efficiaries, some child development project offis (project in-charge) ensured that one of the pair grassroot level functionaries (Anganwadi worker helper) was from the higher caste and the other a from the lower caste.

from the point of view of clients, child health rammes are likely to be achieving good quality if clients express that their needs are met, they m to avail themselves of services, or bring is to the programme. Also, a positive feedback mehild caregivers, indicating that they are more able and confident of promoting the health of children and that they have noticed a visible provement in the health or nutritional status of children, is also an indicator of quality of care the perspective of meeting client needs.

long-term ones, perhaps because they give visible returns and are less difficult to achieve. Thus, oral rehydration therapy for diarrhoca management may take up considerable resources of the health system and scant attention may be paid towards measures to improve health and hygiene behaviours of child caregivers.

This was evident in a study we conducted on the ICDS programme in urban Baroda to assess the quality of field level implementation of selected ICDS services using the observation method together with semi-structured interviews (Kanani and Patel, 1994). The Anganwadi workers were more concerned about the number of children weighed monthly than with educating mothers about their children's growth and feeding practices. Similarly, short-term programmes, such as immunization and food supplementation to severely malnourished children, received more emphasis than nutrition health education to mothers, because these were the ones in focus in the supervision, monitoring and evaluation system.

Effective management of services

It is essential that human, financial and material resources are efficiently managed in child health programmes with particular focus on empowering the health service providers at all levels. Empowerment of mothers and other child caregivers can take place to the extent that health service providers themselves are empowered. Empowerment in this context is viewed as a continuous process in which knowledge and skills of health care providers are enhanced, attitudes are changed and administrative support is provided for delivering good quality care. Quality of care should be the focus in all aspects of management such as training, logistics of supplies, monitoring and supervision. Equally important, adequate financial resources should be available to make it possible to deliver good quality care. This was highlighted at a state level workshop on alternative strategies for improving woman and child nutrition in the State of Gujarat in India (Kanani and Saiyed, 1995) which particularly emphasized the need to focus on 'software' (human resource development) vis-à-vis

Table 1. The components and indicators of quality of care (QOC) in child health programmes: programme perspective

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Blustentive indicator

Components		100
 (a) Services meet client needs in a timely manner (a) services meet client needs in a timely manner 	 Proportion of needs met by the child health programme and to particular, felt needs expressed by clients Change in services over time 	what extent in
 (a need fulfilled too late is a need unrunned). (b) Services respond to the changing needs of clients Services are culturally appropriate, seek to reduce sender bias against cirls 	 Relative extent of focus on girl child in the services Rates of utilization of services for girls and boys Gender disaggregated research data and outcome indicators Proportion of beneficiaries belonging to deprived groups accor 	ding to social and

(a) Inclusion of QOC indicators in the management information system (recent

(b) Focus of supervision on the quality of care provided by field functionaries to

· Proportion of chyble children, adolescents and child caregivers covered with

. Improvement in knowledge and skills of caregivers regarding child health and

• Specific use of participatory approaches and techniques by health function

(c) Number and duration of episodes of critical childhood illnesses (e.g.

(d) Reduction in micronutrient malnutrition (iron, vitamin A and iodine) and

· Community level health committees for child health programmes-their.

(b) Proportion of children in grade 1-11 and grade 111 malnutrition,

improvement in growth in school children and adolescents

· Cost sharing proportion of total cost met (in cash or kind) by con

for programme planning, implementation and evaluation

(a) Infant Mortality Rate and Under Five Mortality Rate,

diarrhoea, upper respiratory tract infection, malaria),

Services focus on the marginalized and socio- Proportion of beneficiarie economic criteria defined according to regional situation economically deprived sections of the population . In the child health programme, list services which meet There is balance between short-term and long-term (a) Short-term goals (e.g. oral rehydration therapy for diarrhoea management (b) Long-term goals (e.g. environmental sanitation improvement) Training of health functionaries, extent of focus on QOC Money, humanpower and material resources are Essential supplies: efficiently managed with a focus on human (a) Good quality.

(b) Adequate,

clients

(a) Adequate. (b) Need based allocation

(b) At risk.

nutrition

· Reduction in:

· Financial resources:

(a) Severely affected,

structure and function

· Monitoring and supervision

reports, meetings).

80-100% of specified services, that is,

(c) Children below 3 years of age.

(d) Mothers Other caregivers

(c) Timely

There is adequate coverage of children and adolescents (0-18 years) and mothers, i.e. (a) All severely affected" and 'at risk" children are provided the 'complete package' of services, (b) All children (below 3 years of age) are provided a minimum package of services. (c) Mothers or other caregivers are covered through mass media and interpersonal communication There exists a mechanism for health service provider-client partnership

There is reduction in childhood mortality. morbidity and malnutrition, especially in girls

need to respond to client needs in a timely manner; often services take so long to materialize that they become irrelevant. Examples abound in the literature of research conducted under short-term projects whose findings rarely find their way to timely and sustainable programmes. On the other hand, building quality takes time: a hurriedly implemented programme may in fact be counter productive. A balanced approach, wherein services are reasonably timely without sacrifice of minimal quality standards, is called for.

Three years ago, a team from our department was involved in a process evaluation of the mid-day meal (MDM) programme in Baroda on the invitation of the government officials who wanted a qualitative improvement in the programme (Kanani, 1994). The participatory evaluation of the programme, which primarily used qualitative research tools such as observations, preference ranking and focus group discussions, yielded several

valuable and feasible recommendations, a few of which were immediately implemented. An example is the change brought about in the food items in the cyclic menu to cater to the likes and dislikes of children. Several recommendations emerged, from expressed needs of the parents of children participation pating in the school feeding programme.

Child health services should have in-built for the between short-term and long-term goals over time In particular, they should actively set to resolve conflicts arising from ground reali-to reduce gender bias against girls as regards child in the field conflicts burners. bility to respond to the changing needs of clicate full health programmes in developing countries to reduce gender bias against girls as regardle the held: conflicts between gaining acceptance feeding, health care and education. We have community members by meeting their immediate gramme for school girls in which we found the stand the long-term goals of a programme. For merely communicating health and nutrition are the relief from symptome of direct recently conducted a nutrition education, pro and considered their brothers to be more important

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Components

Client needs

goals of the services

resource development

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Table 3. Qualitative and quantitative research methods for planning and evaluating QOC in child health programmes

ndicators of Quality of Care	Suggested methods from the health sciences and social sciences
Client needs are understood and met	Key informant interviews with clients and service providers
	· Free listing of needs as expressed by clients
	· Proportion of planned needs met by the child health programme: semi-
	structured interviews and focus group discussions (FGDs)
ervices are culturally appropriate; reduce gender	FGDs in community
bias against girls	Matrix ranking of services
	Analysis of difference: access to care for girls and boys, e.g., gender
	discrimination through role plays
	Direct observations of health service providers and child caregivers
	Scrutiny of the routine recording system for gender disaggregated service
	delivery and service utilization data
Services focus on marginalized sections of the	 Direct observations of clients receiving services
population	FGDs with deprived population groups
	Review of records for service delivery and use data
Services meet	FGDs with service providers
(a) short-term goals	Direct observations of service implementation
(b) long-term goals	Review of secondary data monthly reports
Efficient management of humanpower financial	Scrutiny of training curriculum for focus on QOC
and material resources	Semi-structured interviews with trainers and recent trainees
ing material resources	Direct observations of meetings and supervisory visits
	· Spot observations, FGDs and in-depth interviews of field functionaries
	 Review of secondary data scrutiny of management information system (rec
	reports and circulars) for indicators of QOC
	Budget: allocation of funds for good quality care
	Case studies of 'well managed' and 'poorly managed' centres
Adequate coverage of children, adolescents, and	· Surveys through structured interviews with health service providers and client
child caregivers	proportion of eligible beneficiaries receiving above 80% of specified services
	Direct observations of delivery of services
	Security of records and monthly reports
	 FGDs with and direct observations of child caregivers to assess childcare
	knowledge and skills
Existence of health service provider-client partnership	. Key informant interviews with representatives of community level committee
	and health service providers at all levels
	Direct observations of functionaries of above committees
	FGDs with clients and health service providers
Reduction in mortality, morbidity and malnutrition	Epidemiological survey
Reduction in mortainty, mornality and manifermon	 Analysis of secondary data, e.g. growth charts case papers at health centres.
in children and adolescents	schools
	- Conder burged analysis of impact data
	Case studies of families with children below 3 years of age in 'poor health'
	'good health'

'hardware' (physical infrastructure). For example, it was suggested that training of health functionaries should be field-based and related to operational aspects of their job functions, with two-way mechanisms between the trainers and the trainees in order to make the training more relevant.

Coverage

Though considerable variability exists in coverage data available in child health programmes, records maintained by functionaries usually contain information regarding the number and percentage of eligible beneficiaries receiving various services. However, the important question is: are priority groups covered, and if so, by which services and to what extent? In the Indore (Madya Pradesh) study referred to earlier (Kanani and Khanna, 1995), we observed that with respect to iron supplementation of children and women, functionaries focused on registering new beneficiaries to show achievement of targets and not on completion of the course of 100 tablets for a given number of beneficiaries. Compliance of beneficiaries in terms of tablets consumed by beneficiaries was rarely monitored. Further, the problem with supplies was more to do with disproportionate allocation to various centre rather than shortage per se.

Another issue concerning eligible beneficiaries the need to expand the definition of 'vulnerable groups' to cover school children and adolescents well, and not restrict our efforts only to preschool children Malnutrition and chronic morbidity widespread in this group as several of our studie have indicated (Kanani, 1996). A majority of dise vantaged adolescent girls suffer from undernutrition (>80%) and anemia (>60%). Further, with the looming threat of HIV and AIDS, this see becomes particularly important in child health pregrammes for reproductive health education. selling and services, and for preparation healthy family life.

Health service provider-client partnership

If mechanisms are developed to ensure health service providers and community repr tives are partners in child health programmes is likely to be greater accountability of health tionaries towards their clients and increased ch of good quality care. Such a partnership can central role in empowering child caregivers essential knowledge and skills to improve a

Quality of care in child health programmes

ation of limited, vertical programmes which have sile relevance to the socio-economic situation of region.

whiction in childhood mortality, morbidity and mal-

If the above components indicative of good qualwrare are assured, one may expect favourable outmes in terms of decrease in infant mortality and der-five mortality rates, morbidity and malnution among children. However, in an environment recio-economic deprivation, even reasonably well elemented services may not succeed in achieving ese outcomes. Thus, as is often said, programmes whild health have to move beyond the health ctor and build bridges with other sectors, esmally education.

Voluntary organizations in Indía have recorded pressive gains in reduction of child mortality and mutrition as evidenced in the 'Anubhav' series of words (the Ford Foundation, 1987-1988). These commented experiences have highlighted features the NGO sector which contribute to quality of mesuch as integrating health care activities with development programmes for better health meet and to fulfill felt needs of people, recruiting d training local women and men as community all workers or change agents, rationalization of workers' workload and assigning manageable areas to them, close monitoring and superviparticipatory management, collaboration with mment and academic institutions, and flexiin programme design and implementation.

QOC AT THE POINT OF SERVICE DELIVERY

Central to good quality care is the health service der-client interaction at the point of service ry. This has been mentioned in the OOC fraorks for women's health programmes and for planning programmes referred to earlier. res which can facilitate such interaction appropriateness of physical infrastructure so make parents and children feel comfortable, al attributes of the health service providers empathy, support, listening attentively, as the technical competence of the health serfoviders. Equally important is quality of folcare or referral services provided by the

on of research tools from the social sciences with sciences for planning and evaluating qualare in child health programmes

the purpose of this paper, social science represents the predominantly qualitative ological paradigm of research, while health esearch represents the predominantly quanand epidemiological paradigm of research;

a nutrition of children. It can guard against im- though it is realized that there is much overlap between these two paradigms, and that one may often include elements of the other. An integrated approach, which synthesizes research tools from both the social sciences and the health sciences, not only yields maximal, usable data at less cost, it is also a pragmatic approach. After all, social change in communities and behavioural change in individuals are important goals of most health care programmes.

> In the context of child health programmes, such a partnership between the health sciences and social sciences is even more crucial as there is considerable divergence in concentual orientation between traditional or modernizing communities on one hand, and 'health experts' or health care providers on the other, with regard to desirable child feeding and health care practices.

> Further, when used in a complementary fashion, quantitative methods help determine estimates of phenomena like childhood diseases, prevalence and rates of health care service utilization, while qualitative methods yield a better understanding of cultural perceptions regarding child care, feeding practices and childhood illnesses; and the social determinants of treatment-seeking behaviour among child care givers in households.

For ensuring quality of care (OOC) in child health programmes, a blend of research methods in the social sciences and health sciences is critical, Table 3 describes the potential use of specific methods to gather qualitative and quantitative data for the QOC indicators presented earlier in Tables 1 and 2. The qualitative and quantitative methods suggested are only illustrative of what is possible and are by no means exhaustive, or the most desirable methods. The final basket of methods for a given program should be region specific, and should evolve over time.

STANDARDS FOR OOC

As Mensch has stated, the first step in improving QOC is an articulation of minimum standards that are acceptable and affordable (Mensch, 1993), 'Gold standards' might be impractical to achieve. given the severe constraints on health services in developing countries. Further, health services are likely to be at different levels in terms of years of implementation, reach and variety of services provided. Hence, policy makers must clearly articulate at least the minimum acceptable standards that services will adhere to, which should include all elements of care; interpersonal, informational and clinical.

Secondly, standards should be region or programme specific, depending on the existing level of quality in the programme. Also, standards should evolve and become more stringent so that OOC is upgraded over the years.

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THE CHALLENGE

In our journey towards quality of care for child health, what are the challenges we have to address? It appears that the health science-social science partnership will need to commit itself to the following.

 Advocate for prioritization of QOC in child health services among policy makers among both the government and non-government sectors. Approaches will have to be found to address the issue of lack of conviction and commitment in these sectors for setting up and enforcing QOC standards for child health care.

 Facilitate the creation of a supportive environment and adequate infrastructure in the health system which promotes good quality care. In our process evaluations of national programmes such as ICDS and nutrient supplementation programmes referred to earlier (Kanani and Khanna, 1995, Kanani and Zararia, 1996), we have observed that often, functionaries are well aware of the lacunae in field level implementation of programmes. Yet they do not have either the motivation or the knowledge and skills to bring about a qualitative improvement in their functioning because the health care system does not support such efforts.

• Forge links between the disciplines of the health sciences and social sciences for promoting QOC. For example, interdisciplinary action research can be carried out by the health science-social science partnership for testing the feasibility and cost of operationalizing the QOC framework presented in this paper. This framework will need to be modified to suit regional conditions.

 Train students in universities and research institutions so that personnel, who have an orientation to both socio-cultural and bio-medical dimensions of health, are available to manage programmes for children and adolescents.

 Document and disseminate success stories. There is already available a considerable body of anecdotal evidence and rich experience in organizations who have provided quality care to children and their families in deprived communities. These success stories need to be shared with others such as the 'Anubhay' series of Ford Foundation and voluntary health association of India. Unfortunately, in resource poor situations, many organizations do not consider it necessary to spare precious time or money to document and disseminate success stories, especially the process', Creating this need and making available the necessary resources is a major challenge.

To conclude, UNICEF has stated: "the great challenge of the years ahead is to ensure that any family taking a child to a clinic or health centre anywhere in the developing world will find a health worker who can examine and diagnose, make a decision on appropriate treatment, give basic drugs

for the most common problems, refer the child to hospital if needed, and offer the right advice about how to prevent and manage illness in the home (UNICEF, 1996).

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CHILDHOOD CONDITIONS THAT PREDICT SURVIVAL TO

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ADVANCED AGES AMONG AFRICAN-AMERICANS

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Abstract-This paper investigates the social and economic circumstances of childhood that predict the probability of survival to age 85 among African-Americans. It uses a unique study design in which survivors are linked to their records in U.S. Censuses of 1900 and 1910. A control group of age and racematched children is drawn from Public Use Samples for these censuses. It concludes that the factors most predictive of survival are farm background, having literate parents, and living in a two-parent household. Results support the interpretation that death risks are positively correlated over the life cycle. (1998 Elsevier Science Ltd. All rights reserved

Key words-cohort mortality, longevity. African-Americans, socio-economic factors, geographic factors, oldest old

INTRODUCTION

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dies of social and economic differentials in morby typically relate circumstances at one moment time to contemporary mortality risks. Literally adreds of studies that date back more than a ceny show that, with rare exception, socially and nomically disadvantaged groups suffer elevated s of death (Williams, 1990, Feinstein, 1993). d results are hardly surprising. Healthiness and more economic and social resources are better

thence increased levels of morbidity, disability, Commissionerate of Health and Medical Menice increased levels of morbidity, disability, Government of Gujarat and UNICEF. Ganchinagar, mortality when they are older adults (see Elo Kanani, S. and Zararia, V. (1996) ICDS as people viewar mortality when they are older adults (see Elo a social assessment of ICDS in Gujarat. Unpublished Preston, 1992 and Mosley and Gray, 1993 for

University of Baroda, Baroda. Maine, D. and Allman, J. (1990) The demography of me Uncan-Americans are sometimes said to reptricans have "crossed over" those of white tricans throughout the twentieth century.

an-Americans have had lower recorded death than whites beginning at some age between 70 85 (Elo and Preston, 1994). A common explaeare. World Health Forum 16, 138-144. Saturno, P. J. (1995) Towards evaluation of the quality on of this crossover is that only the hardiest care in health centres. World Health Forum 16, 145-15 to have survived to older ages, the weeding out

for correspondence.

of more vulnerable members of a cohort has resulted in an unusually healthy group of older blacks whose robustness is manifest in unusually low death rates. An alternative explanation is that data on older blacks are flawed by age misreporting and that correction of these inaccuracies would climinate the crossover (Preston et al., 1996).

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This paper investigates the association between social and economic conditions in childhood and the probability of surviving to age 85 among African-Americans. It uses a unique case-control approach in which blacks who survived to age 85+ in 1985 are traced to their records from the censuses of 1900 or 1910, when they were children. They are then matched to a set of black children enumerated at the same age and census in order to identify childhood characteristics predictive of survival to age 85. Special attention is paid to whether factors associated with higher levels of child mortality are positively or negatively associated with survival to age 85.

RELATIONS AMONG DEATH PROBABILITIES ACROSS THE LIFE CYCLE

Will children who have been exposed to harsher health environments in childhood be more or less likely to survive from childhood to advanced ages? There are at least four mechanisms linking childhood conditions with adult mortality that would suggest an answer to this question. They fall conveniently into the typology shown in Table 1. Two mechanisms would suggest that harsher health conditions in childhood would be associated with higher adult mortality and two with lower. Within each direction of influence, one mechanism is direct,

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