Health Insurance in rural Bangladesh: Proposal on a Pilot Project

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The Context

Bangladesh is politically and socially committed to attain the goal of Health for All (HFA) by 2000 AD. To this end, in recent years the health system of the country witnessed numerous changes and reorientations leading to considerable improvement in human and financial resources allocation, physical infrastructure development and essential drug supply. Despite that, the illnesses compounded with pervasive poverty still plague the health status of the people. Consequently, wastage of human productivity particularly of the toiling mass due to ill health continues to be alarmingly high in Bangladesh. However, the reciprocal interplay between health and poverty produced a vicious cycle of ill health and poverty entrapping particularly the rural poor It is globally recognised that ill health of the population obstructs the economic growth and development.)The Bangladeshi policymakers, health managers and donor communities thus agree that the health status particularly of the toiling mass must be improved as quickly as possible to enhance the overall development of the country. Recognising the fact, both the government and nongovernment agencies alike have been working in partnership to have significant reduction in the level of poverty caused by diseases, and diseases caused by poverty. But the existing services and facilities still seem to be inadequate to meet the pace of the people's needs in general, and are not equally accessible nor equitably used by the people in particular. Indeed, sparse distribution of the government health facilities, and inadequate supply and low quality of services are often the major limiting factors towards people's access to basic health care services. As a result, most of the poor have no access to health services. Access, however, may be further hampered when government funding for health care is dwindled.

It is widely recognised that NGOs have been playing a significant role in improving the health status especially of the rural poor in Bangladesh. But their complete dependency on the external funds is another stumbling block to sustainable health service delivery by them. In fact, NGOs' funding especially in this region is severely shrinking due to shift in donors' priority and crises in Eastern Europe. Thus, the sustainability issue of health services is at stake in most poor countries with no exception to Bangladesh. These factors have led the policy makers to consider a spectrum of financing options for Bangladesh, ranging from user fees to health insurance for keeping afloat the health care services. BRAC, a leading national NGO has a history of effective health programme implementation. From the inception, BRAC has been pursuing ways to establish a sustainable health service system to benefit especially the poor.

In the mid-seventies, BRAC introduced a health insurance system in its Sulla project in greater Sylhet district where premiums were collected in kind from the participants. Later BRAC abandoned the initiative as it largely benefited the more affluent segment of the community rather than the poor who were in pressing need of the services.

However, BRAC policy-makers and health managers now plan to test a health insurance system again in an innovative manner. In the recent past, BRAC's health and population programmes prospered both by dimensions and size including fixed facilities. Alongside extensive preventive, promotive and educative community based health and population activities BRAC established over 40 health centres called *Shushasthyos* or BRAC Health Centre to provide primary and secondary curative services based on the PHC principles articulated in the Alma Ata Declaration in 1978. Such facilities are vital to manage a great deal of illnesses independently and thereby to support health insurance (HI) as a risk sharing mechanism to harness private funds for health care, and reduce the financial barrier faced by the individuals when seeking health care. Since majority of the people in Bangladesh live in rural areas, and therefore of prime importance are HI schemes that are accessible to the rural residents. The second prime function of a HI scheme is social including social equity. In essence, it is to remove financial barriers to obtaining health care at the time of illness for the vulnerable groups.

at the time of illness for the vulnerable groups. HI to generate health care financing through voluntary prepayment schemes is an option, but this requires a formidable and complex development process. In any case, it is in this context BRAC intends to organise an experimental HI scheme in pursuance of some of the objectives of community financing – primarily to recoup some of their recurrent costs from the users. Thus the specific objectives of the pilot project on HI are:

- 1. Develop diverse options for HI including service package, amount and mode of premium payment,
- 2. Design and test different options for HI schemes at community level for contributing to financing the Shushasthyo services,
- 3. Explore easy, effective and acceptable options for people's participation in the scheme, particularly by the poor,
- 4. Assess the efficiency and effectiveness of social insurance scheme for health services, and
- 5. Assess the link with Essential Services Package in Health and Population Sector Programme of Bangladesh Government.

2. Description of the Project

2.1 Target Population

The pilot will cover the whole population in the catchment area regardless of their socioeconomic ranks. But particular importance will be given to the members of the Village Organisations (VO) of BRAC and other NGOs, and the poor women and their families who are not associated with any NGOs. The populations in the project area will be classified into the following four sub-groups by means of some critical criteria such as status of NGO membership, land ownership, and selling manual labour by any working member of a household.

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Category-A (Non-poor Non-members)

- Possess more than 50 decimal of cultivable land; and
- Not members of any NGO.

Category-B (Moderate Poor)

- Possess 10-49 decimal of cultivable land;
- Any working member sells manual labour for at least 100 days a year; and
- Members of any NGO.

Category-C (Extreme Poor)

- Have less than 10 decimal of cultivable land (except homestead);
- Any working member sells manual labour for at least 100 days a year; and
- Members of any NGO.

Category-D (Ultra Poor)

- Have no cultivable land (except homestead);
- Have no valuable assets like furniture, utensils, radio;
- Any working member sells manual labour for at least 100 days a year; and
- May or may not be member of an NGO.

For operational ease, the classification is done first as VO and Non-VO, and then the Non-VO is further divided into three as follows (Figure 1).

Category-A (NGO VO Members)

- They will be a heterogeneous group with a mix of non-poor, moderate poor, extreme poor and ultra poor;
- They will be landless to owner of any amount of land (cultivable + homestead);
- Any working member usually sell their manual labour at a range of days in a year; and
- Members of any NGO.

Category-B (Non-poor Non-members)

- They are considered to be the better-off section of the society;
- Have more than 50 decimal of cultivable land; and
- Not members of any NGO.

Category-C (Poor Non-members)

- Have less than 50 decimal of cultivable land (except homestead);
- Any working member sells manual labour for at least 100 days a year; and
- Not members of any NGO.

Category-D (Ultra Poor Non-members)

- Have no cultivable land (except homestead);
- Have no valuable assets like furniture and utensils;

- Any working member sells manual labour for at least 100 days a year; and
- May or may not be member of any NGOs.

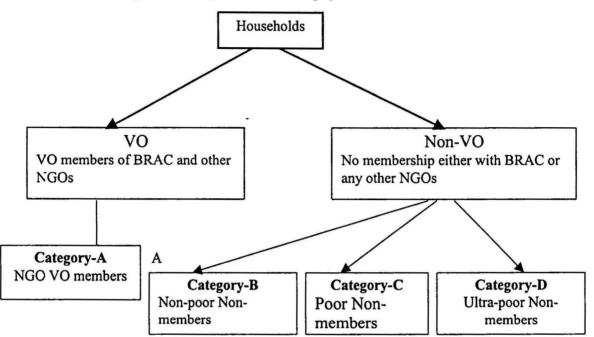


Figure 1: Categorisation of the population for the scheme

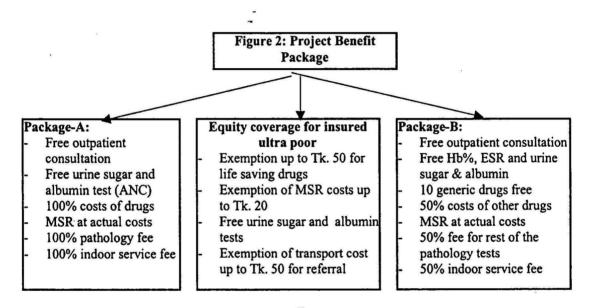
small-scale baseline survey will be conducted to register the basic socioeconomic profile of these populations. This can be done even during the entry (registration) of a household in the programme based on the above criteria. Four types of cards will be developed for the above groups. Each group will be given one type of card for identification so that they can be easily accessed for premium. Variable rates of premium will be charged depending on the socioeconomic classification of the populations.

2.2 Service Provisions

The project will be developed within the existing service provisions and facilities available through the BRAC community-based approach and the Shushasthyo. The provisions will range from the information, education and counselling (IEC) and social mobilisation at the community level to offering services at Shushasthyo including referral arrangement from Shushasthyo to the higher facilities for further care. The services at Shushasthyo include out-patient counselling, consultation, examination and treatment for diseases/conditions being able to manage at Shushasthyo; the indoor care for vaginal delivery, post-abortion care, and child care (pneumonia, diarrhoea, medical emergencies for referral preparation, i.e. acute abdomen), pathological tests, and essential drugs services (Appendix-1). The referral package will include information and advice on referral care, support for transport facilities and live-saving drugs for emergency situation. A list of drugs available at Shusasthyo is attached (*Appendix-2*).

2.3 Project Benefits Package

For avoiding the complexity of calculations and keeping the mechanism simple and manageable, there will be two different packages of benefits that will be available on two different amount of payment system (Premium and Co-payment). The equity coverage with lower service charge, subsidy, and exemption will be on the basis of socioeconomic categories of the population and premium package (Figure 2).



2.4 Description of Benefit Package

2.4.1 Package-A

Through this package, the project participants (insured) will get outpatient services for IEC, consultation with doctors and prescription, drug dispensation, and the referral advice/suggestions if required for the listed conditions below.

- 1. General diseases (Appendix-3)
- 2. Ante-natal care including urine albumin and sugar tests
- 3. Post natal care including care of new-born
- 4. Minor surgical services for small cut injury, abscess drainage, dressing wound. The patients need to reimburse the actual costs of medical and surgical

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requirement (MSR) such as disposable syringe, needle, catgut, cotton/gauze/bandage, etc.

5. Immunisation services with government supplied vaccine and MSR.

The patients will need to pay for drugs, MSR (syringe, needles, catgut, infusion set), pathological tests, and indoor services like delivery, post-abortion care, child health (pneumonia, diarrhoea), and other medical emergencies (acute abdomen, observation).

2.4.2 Package-B

With a separate set of premium and co-payment, the following package will be offered to the insured clients.

- 1. Services mentioned above under Package-A
- 2. The following 10 generic drugs will be given free of cost:
 - i) Paracetamol
 - ii) Phenoxymethyl Penicillin or
 - Amoxycillin
 - iii) Metronidazole
 - iv) Salbutamol
 - v) Chlorpheniramin maleate
 - vi) Albendazole
 - vii) Iron + Folic Acid
 - viii) Antacid
 - ix) Vitamin-A
 - x) Benzyle Benzoic Acid
- 3. All other drugs at 50% subsidised cost;
- 4. Pathological tests for estimation of haemoglobin, ESR, and urine sugar and albumin;
- 5. All other pathological tests available at Shushasthyo at 50% subsidised cost;
- 6. Shushasthyo indoor services at 50% subsidised cost.

2.4.3 Equity Package

Only the insured ultra poor (category-D) will be eligible for the equity coverage. But the noninsured ultra-poor will get access to Shushasthyo services as per the existing financing policy with subsidy and exemption through user fee systems. The equity package with subsidy and exemption will include the following:

- 1. Services mentioned above under Package-A
- 2. The following 10 generic drugs will be given free of cost:
 - i) Paracetamol
 - ii) Phenoxymethyl Penicillin or Amoxycillin

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- iii) Metronidazole
- iv) Salbutamol
- v) Chlorpheniramin maleate
- vi) Albendazole
- vii) Iron + Folic Acid
- viii) Antacid
- ix) Vitamin-A
- x) Benzyle Benzoic Acid
- 3. All other drugs at 50% subsidised cost;
- 4. Pathological tests for estimation of haemoglobin, ESR, and urine sugar and albumin;
- 5. All other pathological tests available at Shushasthyo at 50% subsidised cost;

2.5 Payment Systems

The imbursement structure (premium and co-payment) and the benefit package have been designed based on the assessment and analysis of morbidity pattern (*Appendix-3*), the categories of client attended the Shushasthyo (BRAC VO, Other NGO VO, Non-VO, Hard Core Poor), the maximum uptake of clients per months per centre and contribution of different service packages towards cost-recovery.

2.5.1 Payment Structure

Based on cost analysis, the payment and co-payment structure is illustrated below. However, the specifics of cost analysis and estimation of the premium and co-payment for both the benefit packages are shown in Appendix-4.

HH Category	HH Characteristics	Premium per Annum	Co-payment per Visit					
Cat-A	NGO VO Members	Tk. 125	Tk. 2					
Cat-B	Non-poor Non-members	Tk. 200	Tk. 3					
Cat-C	Poor Non-members	Tk. 150	Tk. 2					
Cat-D	Ultra-poor Non-members							

3.5.1.1 For Benefit Package-A

2.5.1.2 For Benefit Package-B

HH Category	HH Characteristics	Premium per Annum	Co-payment per Visit
Cat-A	NGO VO Members	Tk. 350	Tk. 4
Cat-B	Non-poor Non-members	Tk. 550	Tk. 7
Cat-C	Poor Non-members	Tk. 400	Tk. 5
Cat-D	Ultra-poor Non-members		

There will be flexibility to change the amount of premium and the co-payment subject to the conditions/circumstances that affect the costs of the project operation. However, this change

will be incorporated at the beginning of a new cycle of insurance membership or a new calendar year. The cost analysis of both the premium packages is annexed in Appendix 5.

2.5.2 Mode of Payment and Renewal

The premium will be collected in cash by the project's newly recruited Community Motivators (CMs) once in a year for a household that need to be renewed yearly. A household can be registered at any time throughout the calendar year for a 12 months period. The insured households not using any medical care from the BRAC facility throughout the reference year of insurance will be entitled to get back 20% of their annual premium in terms of special service, or the amount will be recycled/carried over in the subsequent year's premium for the respective households.

2.5.3 Fee Structure, Safety Net and Subsidy

The fee structure of the services outside the benefit package will remain the same as per the current Shushasthyo Management Guidelines and user fee system. All the noninsured HHs will get access to Shushasthyo services under the payment systems through user fee. The noninsured ultra-poor will get services under the existing safety net procedures of Shushasthyo through user fee system. The insured ultra-poor, regardless of VO membership status will enjoy the special benefits of equity coverage under the service benefits package of the project. The costs of subsidised services and safety net coverage services will be met through cross-subsidisation of higher payment for the non-poor clients/HHs. The project has been designed to lessen this cost over a period of three years through cross-subsidy when the project will be able to achieve its 100% coverage of membership for insurance. During the 3-year transition, the costs to be accrued against subsidy and safety net can be generated through the contributions from BRAC or other agencies. However, BRAC's experience of mobilising bond money for ultra-poor TB patient, under TB control activities, can be used to mobilise funds from the community to subsidise the cost for ultra-poor. Other sources like pharmaceuticals, RDF or laboratory services can be used to minimise this cost.

3. **Operational Procedures**

3.1 Staff - The newly employed Community Motivators (CMs), existing Shushashthyo personnel and the staff of other BRAC programmes will jointly implement the project activities through BRAC's local and central management system (The present Shushasthyo staffs have already been functioning within a well-defined framework) Their specific responsibilities on health service delivery are clearly defined and regulated. They will carry on their routine jobs as it is or with required modifications. Introduction of pilot HI under selective Shushasthyos definitely will generate new responsibilities for its staff. This necessitates deployment of staff apart from the existing human resources in each Shushasthyo who will perform the emerging extra workload. The present staffs of a Shushasthyo include one Medical Officer, two Family Welfare Visitors/Nurses/Paramedics, one Aya and one Cook. Based on the workload, 3-4 local Community Motivators will be deployed to each HI working area who will be entirely responsible for community motivation, premium collection, liaison between the social organisations, community and BRAC, assistance to the health service providers and other management functionaries, and manage problems at field level. Each area will have an accountant-cum-pharmacist. The existing BRAC management (particularly RDP and HNPP) at the upper echelons of the Shushasthyo will extend the supervisory services to the areas under the HI pilot. In each village, a Management Committee will be developed drawing representatives from various segments of the population and given orientation. Besides, there will be general Management Committees at Shushasthyo levels (SMCs).

3.2 Training of Staff – The respective old staff (from Shushasthyos and other programmes of BRAC) will be given extensive orientation for 2 days on the modus operandi of the project. The new recruits will undergo a weeklong training aiming to make them fully capable for effective implementation of project work. A training module may be developed. Resource persons from among the experienced agencies will be involved in training.

3.3 Organising the Community for Prepayment for Health Services - Raising critical awareness of the key-person and opinion leader at household is the precondition for organising the people towards prepayment for health services. The CMs, Shushasthyo staff and other BRAC staff in cooperation with the community people including the Village Management Committee (VMC) and Shushasthyo level Management Committee (SMC) will impart education to the community on the importance of health services and health insurance by using the existing social organisations at villages, for example, landless cooperatives of NGOs, mosques, clubs etc. If the situation demands, they will need to organise alternative forums for the purpose on the one hand, and contact individually on the other. This will be a continuous in-built process of motivation and premium collection. But in the initial stage of the project, the motivational work should be done vigorously to conscientise the prospective potential participants of the scheme. Materials on information, education and communication (IEC) highlighting the features of the scheme, its importance including the premium rates, benefit of the scheme, referrals and other conditions will be

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printed in Bangla and distributed. Besides, the IEC materials already developed by other agencies may also be used. The CMs and other grassroots workers will play a major role in developing IEC materials through learning by doing. However, the managers and Shushasthyo staff at various levels will also take active part in motivational work. Health insurance cards will be designed and printed for sale to the insured households. The CMs and other providers at grassroots will sale the cards.

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3.4 Project Administration

Staff Supervision - As noted before, each project catchment area will have 3-4 CMs apart from the Shushasthyo staff and community workers. Each CM will be given a monthly endowment of Taka 1,000, while 10-15% of the premiums raised by a CM will be given as incentive each month. This system is expected to make the CMs self-propelling in motivational drive, collection of premiums, maintaining records, and help the management in day to day problem solving. The system will also give a lot of drive to the CMs to establish the scheme by increasing premium, and thereby increase their income by 10-15% in addition to the monthly endowment. The CMs and the Shushasthyo staff will be directly accountable to the Shushasthyo incharge. It is to be noted that the Shushasthyo staff will also play active role in motivational work along with premium collection. The Shushasthyo incharge will be reportable to the local...... The accountant-cum-pharmacist will primarily be responsible to the Shushasthyo incharge. The Shushasthyo incharge serves as a leader of the Shushasthyo's health care and CM team and is responsible for daily work, and schedules of visits to field, to satellite clinics based on the person strength and commuting time etc. The Shushasthyo staff is to follow-up the referral patients, as quality assurance measure of the services.

Progress Review – Each project office will arrange fortnightly meetings of the providers to review the progress of work, analyse the problems encountered and devise their possible solutions. There will be a monthly meeting where representatives from all the project areas including head office managers will attend to review the performance. Thus quality of the work will be tracked.

Accounts – The accountant will collect all the revenues including the revenues accrued from both card sale and user charges daily or weekly whatever is convenient at the end of daily or weekly work and will deposit the amount to BRAC accounts following the BRAC financial procedures. The local Shushasthyo management may have some financial responsibilities for the centre, and is expected to fund for stationeries, utilities and for managing referral cases. They may be allowed to spend some money locally for the purposes.

Recording and Reporting – An information system will be developed to serve the purpose of both the management functions and health information of BRAC, including membership registration, premium payment, service utilisation, drug order, purchase and sale, and financial accounting using a desktop computer or any other suitable mechanism available at each facility. The health care team, the CMs and others involved in the process will use a daily contact log to register patients, and record their chief complaints, drugs prescribed or sold and referrals. Forms will also be designed for the monitoring of motivational works, premium collection, as well as high-risk individuals- defined as pregnant women, and individuals with serious ailments.

The Shushasthyo will collect service statistics from the persons involved in different layers below the Shushasthyo and compile the statistics, and prepare reports to send to higher tiers of management each month (Area Office, Regional Office, and Head Office). Reviewing the reports these offices will provide feedback to the lower tiers regularly for corrective measures. This will be a mandatory for all tiers.

Logistics – Generally the respective Shushasthyo especially the accountant will give indent to BRAC Head Office each month in advance and the HO will supply the indented items as per BRAC procedures.

HI Management Committees – Such committees will be formed at village and Shushasthyo levels. In each village there will be a 5-member Health Insurance Management Committee (VMC). The members will be drawn from all the social classes based on the villagers' consent. The CM of the respective village will act as member secretary of the VMC. Likewise, a broader committee can be formed for each Shushasthyo command area pooling representatives from each VMC, local elites, social leaders, NGO representatives and local doctors. The heads of the VMCs will be members of Shushasthyo level Management Committee (SMC) by virtue of their VMC membership. The Shushasthyo incharge will act as member secretary of the SMC. Both the committee members will visit villages to explain to the people about the role of VMCs and SMCs in HI scheme. They will motivate the people to participate in the scheme, to pay premium, and how to pay it. They will help resolve any emerging problem at community level.

Role of Different Programmes of BRAC – Although the project will be a tripartite initiative of Health and Population Division, Essential Health Care and RED, Rural Development Programme and BRAC Education Programme are expected to play a partnership role to make the project successful. These programmes can effectively mobilise the community to participate in the scheme by using their human resources and networks. On the other hand, RED will involve mainly in designing, planning, documentation, monitoring and evaluation of the project. It will also extend possible technical assistance to the project for its effective implementation.

Project Area: The will be implemented in two areas of Narsingdi district (Description be added).

Appendix-1

Shushastho Service Provisions

The following facilities and services are routinely available at Shushasthyo (BRAC Health Centres):

1. Out-patient Services

- 1.1 Registration, waiting and health education;
- 1.2 Need-based counselling (STD/RTI; Family Planning; Breast-feeding and Nutrition);
- 1.3 Consultation, examination, prescription and drug dispensing for general disease as attached in Appendix-3;
- 1.4 Ante-natal and post-natal care;
- 1.5 Family planning services (Pill, Condom, injectables);
- 1.6 Immunisation and Growth monitoring; and
- 1.7 Minor surgical services for abscess, small cut injury, wound repair, surgical dressing.

2. Indoor Services

- 2.1 Normal vaginal delivery with or without episiotomy;
- 2.2 Pregnancy related complication (hyperemesis, PET);
- 2.3 Menstrual Regulation (MR);
- 2.4 Clinical family planning services (IUD, Sterilisation); and
- 2.5 Paediatric care for pneumonia, diarrhoea, malnutrition and other manageable illness.

3. Emergency Services (First-aid/resuscitation) and Referral

- 3.1 Medical and surgical (Shock, Hypertensive crisis, acute abdomen etc.);
- 3.2 Obstetrical (Complicated labour, Haemorrhage;
- 3.3 Paediatric (Premature delivery, Low birth weight, Neonatal asphyxia, Neonatal sepsis, Septicaemia, Very severe disease, Convulsion, etc.); and
- 3.4 Referral advise and suggestions on services, health facilities, mode of transport and costs.

4. Pathological Services

- 4.1 Clinical: Hb%, TC, DC, ESR, Urine R/E, Stool R/E;
- 4.2 Biochemical: Blood Sugar (Random/Fasting), Serum Bilirubin;
- 4.3 Immunological: Blood Grouping, Pregnancy test, Widal, RPR, RA test, ASO titre, HBsAg; and
- 4.4 Microbiological: Sputum for AFB, Gram staining, Malarial Parasite.

5. Essential Drug Services:

- 5.1 Availability of essential drugs (see Appendix-2); and
- 5.2 Drug dispensing.

Appendix-2

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Shushatho Drugs Provisions - (Routine) (IN GENERIC NAMES)

Name of Drug

Presentation (Form)

ANTIBIOTIC:

1.	Penicillin-V (Phenoxymethyl Penicillin)	Tablet; Syrup
2.	Benzathin Penicillin	Injection
3.	Cotrimoxazole	Tablet; Syrup
4.	Amoxycillin	Capsule; Syp; Paed. Drop
5.	Cloxacillin	Capsule; Suspension
6.	Cephalosporin (Cephalexin)	Capsule; Suspension
7.	Doxycycline	Capsule
8.	Ciprofloxacin	Capsule
9.	Erythomycin	Tablet; Suspension
10	Nalidixic Acid	Tablet
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ANTI-PYRETIC / ANALGESIC / NSAID:

11. Paracetamol	Tablet; Suspension
12. Diclofenac Sodium	Tablet; Suppository
13. Ibuprofen	Tablet
BRONCHODILATORS:	

14. Aminophyllin

15. Salbutamol

Tablet Tablet, Syrup

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ANTIHISTAMINIC: 16. Chlorpheniramine Maleate 17. Promethazine Hydrochloride 18. Mebhydroline ANTI-EMETIC: 19. Metoclopramide 20. Prochlorprazine **ANTI-AMOEBIC:** 21. Metronidazole Name of Drug ANTI-MALARIAL: 22. Chloroquine ANTHELMINTIC: 23. Mebendazole 24. Levamisole 25. Albendazole 26. Pyrantel Pamoate ANTI-SPASMODIC: 27. Hyoscin-N-Butylbromide CARDIOVASCULAR DRUG: 28. Propranolol 29. Atenolol 30. Nifedipine 31. Methyldopa 32. Enalapril SKIN DISEASE: 33. Benzyle Benzoate 34. Neomycine + Bacitracin 35. Betamethasone + Neomycine

Tablet; Syrup Tablet; Syrup Tablet

Tablet; Syrup; Paed. Drop Tablet

Tablet <u>Presentation (Form)</u>

Tablet; Syrup

Tablet; Syrup Tablet; Suspension Tablet Tablet; Suspension

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Tablet

Tablet Tablet Tablet Tablet Tablet

Emulsion Ointment Ointment

36. Benzoic Acid + Salicylic Acid GIT PROBLEM:	Ointment
37. Antacid	Tablet; Susp
38. Ranitidine Hcl	Tablet
39. ORS	Sachet
VITAMINS / HEAMATINICS / MINERALS	
40. Iron + Folic Acid	Tablet; Syrup
41. Vit-B Complex	Tablet; Syrup
42. Vit-C (Ascorbic Acid + Sodium Ascorbate)	Tablet
43. Riboflavin	Tablet
44. Calcium Lactate	Tablet
Name of Drug	Presentation (Form)
<u>Mume of Drug</u>	Tresentation (Tormy
SEDATIVES/TRANQUILIZER	
45. Diazepam	Tablet
46. Clobazam	Tablet
DIURETICS:	
47. Frusemide	Tablet
EYE/ENT DISEASE:	
48. Chloramphenicol	Eye/Ear Drop
49. Xylometazoline Hcl (Nasal Decongestant)	Nasal Drop
ANTI-FUNGAL:	Courses Versional Tablet
50. Clotrimazole	Cream; Vaginal Tablet
51. Econazole Nitrate	Cream
52. Nystatin	Oral Suspension
CONTRACEPTIVES:	
53. Femicon	Tablet
54. Nordette-28	Tablet
55. Raja	Condom
56. Panther	Condom

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LIST OF EMERGENCY DRUGS FOR SHUSHASTHO (GENERIC NAMES)

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Name of Drug	Presentation	Amount
1. Inj. Amoxycillin (250 mg)	Vial	4
2. Inj. Gentamicin (20 mg)	Ampoule	3
3. Inj Ceftriaxon	Vial	3
4. Inj. Hydrocortisone (100 mg)	Vial / Ampoule	3
5. Inj. Dexamethasone (5 mg)	Ampoule	2
6. Inj. Lignocain	Vial	1
7. Inj. Methyl Ergometrin (0.2 mg)	Ampoule	5
8. Inj. Oxytocin (5 Int'l Unit)	Ampoule	5
9. Inj. Atropine Sulphate (0.6 mg)	Ampoule	50
10. Inj. Diazepam (10 mg)	Ampoule	5
11. Inj. Pheniramine Maleate (15 mg)	Ampoule	5
12. Inj. Chlorpheniramine Maleate (10 mg)	Ampoule	5
13. Inj. Frusemide (20 mg)	Ampoule	5
14. Inj. Adrenaline (1 mg)	Ampoule	5
15. Inj. Calcium Gluconate (10% w/v in 5 ml)	Ampoule	5
16. Inj. Sodium-bi-Carbonate (7.5% in 10 ml)	Ampoule	5
17. Inj. Magnesium Sulphate		
18. Inj. Diclofenac Sodium (75 mg)	Ampoule	5 ;
19. Inj. Ranitidine Hydrocloride	Ampoule	5
20. Inj. Hyoscine-N-Butylbromide (20 mg)	Ampoule	10
21. Inj. 25% Glucose (25 ml)	Ampoule	10
22. 5% Dextrose in Aqua (500 ml)	Bag	5
23. 5% Dextrose in Normal Saline (500 ml)	Bag	5
24. Normal Saline (500 ml)	Bag	5
25. Cholera Saline (500 ml)	Bag	5

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Note: This medicine is to be kept in separate box labeled as <u>EMERGENCY SUPPLIES</u> and only be used with physician's prescription and under direct supervision of attending physician.

Appendix-3

Sl #	Diseases/Conditions	Number of Cases	%					
1	Peptic Ulcer	16382	17%					
2	Leukorrhoea/Vaginal discharge	5988	6%					
3	Acute Respiratory Infection (ARI) / Pneumonia	5114	5%					
4	Helminthiasis / Worm5040Anaemia4465							
5	Anaemia4465Bronchitis4448							
6	Bronchitis4448Urinary Tract Infection (UTI)3950							
7	Urinary Tract Infection (UTI)	3950	4%					
8	Fever / Pyrexia of Unknown Origin (PUO)	3871	4%					
9	Dysentry	3284	3%					
10	Arthritis	3259	3%					
11	Chronic Bronchial Asthma	2971	3%					
12	Hypertension	2387	2%					
13	Fungal Infection/Ring Worm	2138	2%					
14	Otitis Media	1805	2%					
15	Lower Abdominal Pain / Pelvic Inflammatory	1624	2%					
	Disease (PID)							
16	Migrain / Headache	1461	1%					
17	Scabies	1407	1%					
18	Tuberculosis	1374	1%					
19	Diarrhoea	1300	1%					
20	Incomplete Abortion/MR	1146	- 1%					
21	Allergic Reaction / Anaphylaxis	1082	1%					
22	Snake bite/Dog bite/Insect bite	1061	1%					
23	Malnutrition / Protein Energy Malnutrition (PEM)	883	1%					
24	Eczema	826	1%					
25	Tonsilitis	803	1%					
26	Pharyngitis / Laryngitis	754	1%					
27	Injury / Trauma	752	1%					
28	Eye Disease / Infection	746	1%					
29	Others	18937	19%					
Gran	d Total	99258	100%					

Morbidity Pattern of Shushasthyo (January – March, 2000)

Appendix-4

Details of Cost Analysis for Estimation of Premium and Co-payment

The amount of premium and the benefit package have been set based on the assessment and analysis of morbidity pattern (*Appendix-3*), the categories (BRAC VO, Other NGO VO, Non-VO, Hard Core Poor) of client attended the Shushasthyo, and the maximum uptake of clients per months per centre. In 1999, experience showed that the maximum monthly client load was 1100 per month (average 800 per month) at Fashitala Shushasthyo.

In the current approach of service delivery and financing (user fee), the actual average monthly costs of operating a Shushasthyo (Fashitala, Bogra) in 1999 was Tk. 45,000 and the average monthly income was Tk. 22,923. An analysis of income and expenditure in 1999 showed that the unit cost per patient treated was Tk. 41. The average income from a patient was Tk. 32 from a comprehensive package of Shushasthyo services and Tk. 9.00 from the outpatient consultation only.

In 1999, experience showed that the maximum monthly client load was 1100 per month (average 800 per month) at Fashitala Shushasthyo. In the current approach of service delivery and financing (user fee), the actual average monthly costs of operating a Shushasthyo (Fashitala, Bogra) in 1999 was Tk. 45,000 and the average monthly income was Tk. 22,923. An analysis of income and expenditure in 1999 showed that the unit cost per patient treated was Tk. 41. The average income from a patient was Tk. 32 with comprehensive package of Shushasthyo services and Tk. 9.00 from the outpatient consultation only. With the user fee system, the trend of clients categories in 1999 showed 70% BRAC VO, 15% other NGO VO, 13% Non-VO, and 2% hard-core poor (non-VO poor). The vast majority (95%) of the clients attended for consultation that contributed 55% of total income and the other package's contribution were 32% drugs, 8% indoor (mainly delivery) and 5% pathology.

The estimated population within a Shushasthyo's working area is 30,000 on average within 3 km of its radius that represents 6,000 households (HHs). With the disease prevalence rate of 138 per 1000 population (BBS, 1998), the estimated number of sick persons in 6,000 HHs within a period of 15 days would be 4140 (.138 x 30000). So, within a period of one month the total number of sick persons around 3-km radius of a Shushasthyo would be 8280.

Again, based on the statistics of health care seeking behaviour of 15% who seek care from static facility, out of these 8280 sick persons, a total of 1242 persons would come at Shushasthyo in a month provided 6,000 HHs are registered to be insured under this project. If we set a target to register 50% of the HHs that covers 3,000 HHs, then the estimated

number of sick persons who would seek care from the facility would be 621. Considering the doubling effect of insurance system on seeking behaviour, the estimated number of patients to be attended at Shushasthyo will be 1242. The experience shows that with the current staffing pattern and the service package available, a Shushasthyo can satisfactorily take care of this number of patients in a month.

According to the household survey done in December 1999 in Reproductive Health and Disease Control (RHDC) project area, the categories of households/population were as follows:

Category	Description _	Surveyed Proportion (%)					
CAT-A	NGO VO Members	37%					
CAT-B	Non-Poor Non-members	40%					
CAT-C	Poor Non-members	21%					
Cat-D	Ultra Poor Non-members	2%					

In order to attain 3,000 HHs to be registered with the insurance provision, the following targets have been set. Based on this calculation, the number of the population under the defined categories would be as follows:

Category	Description	Insurance Target (%)	Estimated Households						
CAT-A	NGO VO Members	60%	1800						
CAT-B	Non-Poor Non-members	20%	600						
CAT-C	Poor Non-members	15%	450						
Cat-D	Ultra Poor Non- members	5%	150						
Total		100%	3,000						

With a target of 100% achievement of registering 3,000 households by 3rd year of project operation, the cost analysis below with the set payment structures (premium and co-payment) shows that is required to attain 100% cost-recovery.

Cost Analysis for setting-up of Premium for Package-A

A) Monthly Expenditure for Providing Package-A:

		Safety net costs	
A.1 Monthly Operation Cost of a Shushatsho	45000	Path (60x.3x10))	180
A.2 Monthly allowances for the community	4000	Drugs (60x.05x50)	150
motivators			
A.2 Cost of providing subsidised services (Path)	4800	MSR (60x.1x20)	120
A.3 Costs of providing safety net services	600	600 Transport (60x.05x50)	150
Total	54400	54400 Total Safety net Cost	600
So, the Annual Cost for package-A (54400x12)	652800 Subsidy	ubsidy	
	0	Cost:	
-		Path (1200x.4x10)	4800
		Total Subsidy cost	4800
B) Income from Package-A (with a maximum uptake of 1200 pt):) pt): ·		
B 1 Income from Drine Sale:			

B.1 Income from Drugs Sale:

100			Plan and		
CI Cat	No UISI	# Client	DIOS BRID	dine/out	munne/ni
			(Tk. 80/pt)	(Avg 15%)	
Cat-A	809	72	0 57600 8640	8640	
Cat-B	20%	24	19200	2880	
Cat-C	15%	18	14400	2160	
at-D	5%	90	0	0	
Total			91200	13680	164160

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														00									1109820 (Tk. 1380000 - 270180)
								In/Annum						40500									(Tk. 138
pt):	ln/Annum					164160		Income	(Tk. 5/T)	1800	006	675	0	3375		In/Annum					65520	270180	1109820
ke of 1200	Inc/Surp (Avg 15%)	8640	2880	2160	0	13680		# of Test	(Avg 2/Pt)	360	180	135	0	675		Income	2880	1680	006	0	5460		
ıximum upta	Drug sold (Taka)	7600	19200	14400	0	91200		# Pt-Test	(25% pt)	180	. 60	45	0	285		Co-P rate	4	7	5	0		F	ected
B (with a ma ale:	ent	720	240	180	60		:XE	# Client #	~	720	240	180	60		ient:	# Client (720	240	180	60		im per annur	im to be coll
B) Income from Package-B (with a maximum uptake of 1200 pt): B.1 Income from Drugs Sale:	% Dist 🥻	60%	20%	15%	5%		B.2 Income from pathology:	% Dist #		60%	20%	15%	5%		B.3 Income from co-payment:	% Dist #	60%	20%	15%	5%		Income other than Premium per annum	So, the amount of premium to be collected
B) incomé B.1 incomé	CI cat	Cat-A	Cat-B	Cat-C	Cat-D	Total	B.2 Incon	CI cat		Cat-A	Cat-B	Cat-C	Cat-D	Total	B.3 Incorr	CI cat	Cat-A	Cat-B	Cat-C	Cat-D	Total	Income of	So, the ai

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	Income		2600 585900	6600 306900	3600 167400	0	22800 1060200	In the above premium rate there is a shortage of the following amounts for 100% cost recovery:
	Refund	(.2 of. 1 hh)	31500 120	16500 6(9000 36	0	228	nts for 100%
	Collection Incentive (5%)		630000 31	330000 16	180000	0	140000	llowing amou
	Prem rate Colle		350 6	550 3	400 1	0	11	rtane of the fo
	# HHs Prer		1800	600	450	150		there is a sho
B.4 Income from premium:	% Dist # I		60%	20%	15%	5%		nremium rate
B.4 Income	HH cat		Cat-A	Cat-B	Cat-C	Cat-D	Total	In the above

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Total expenditure per annum	1380000
Total income	1330380
Shortage in a year	, 49620
In a month	4135
This 1125 are marity and in the mised from the rate instant	sind from the sea included the

This 4135 per month need to be raised from the non-insured household (50%) with the current user fee structure

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