



Voice of MIS-Health



Newsletter-Issue 4, May 2008, MIS-H, DGHS, Dhaka, Bangladesh

Performances of the EmOC Facilities and their Trend



Pregnant women with complication receiving treatment from Upazila Health Complex

Objective of this Newsletter

The main objective of this newsletter is to analyze the status of EmOC performance of designated public facilities and finding out the progress. The specific objectives are:

1. To assess performance and monitor progress of individual facility and compare performances between years and geographical regions;
2. To analyze the trend of performance of EmOC facilities among geographical divisions over a defined time period.
3. To provide analytical report on availability and utilization of EmOC services to the Program Managers, Administrators and Service Providers.

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Introduction

Bangladesh has achieved a substantial progress in the field of health during the last three decades despite existing poverty and inadequate health services. Maternal Mortality Ratio (MMR) and Infant Mortality Rate (IMR) have decreased moderately over the years. Although MMR declined 22% over the past 15 years, Bangladesh still having relatively high maternal mortality ratio (MMR) in the world, i.e., 320-400/100,000 live births. The Government is committed to improve the health services of the common people particularly of the mothers and children and also taken various programs on Reproductive Health, especially strengthening comprehensive EmOC services at Medical College Hospitals, District Hospitals and Upazila Health Complexes to ensure safe delivery and

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Message

Director General
Directorate General of Health Services
Mohakhali, Dhaka
May, 2008



Over the past decade there has been substantial progress in maternal mortality reduction in Bangladesh. However, the maternal health situation in the country as reflected by the maternal mortality ratio is still very high. To overcome the situation, Emergency Obstetric Care (EmOC) has been accepted as the key intervention at the facility level for reducing the high rate of maternal mortality. It is indeed a great pleasure for me to know that the 4th issue of "Voice of MIS" on Reproductive Health EmOC performances is going to be published by MIS-health in collaboration with UNICEF. Still the major challenge is how to strengthen the EmOC program for further reduction of maternal mortality and morbidity in the country. Let us take this challenge with renewed zeal, courage, hope and enthusiasm. I hope that the persons concerned with EmOC interventions, the planners and the managers of different levels will find this report useful and helpful in strengthening the existing EmOC program. I wish to offer my thanks to UNICEF for their technical and logistic support in such an important area of health development. Finally, I would like to thank every one who worked hard directly and behind the screen for publishing this newsletter successfully.

(Prof. Dr. Md. Abul Faiz)



Message

Director PHC & Line Director ESD
DGHS, Mohakhali, Dhaka.
May, 2008



I am happy to know that the MIS-Health of DGHS has taken an initiative in publishing the 4th issue of Voice of MIS with support from UNICEF Bangladesh highlighting the EmOC performances. Maternal mortality still remains a public health concern in Bangladesh. To Achieve the MDG of reducing MMR by three quarter within 2015, EmOC has been set as one of the priority objectives in the strategic document of Health Nutrition and Population Sector Program. It is expected that this Newsletter will give some programmatic directions to the development partners and policy makers for further providing specific EmOC services to the women of Bangladesh.

I congratulate the MIS-Health monitoring team for their efforts. I would like to thank every one who worked hard to publish this Newsletter.

(Dr. Saleh Muhammad Rafique)



Editorial

Director & Line Director, MIS-Health
DGHS, Mohakhali, Dhaka.
May, 2008



I am very happy that the 4th issue of the 'Newsletter' of MIS-Health in 2008 is going to focus on the EmOC performances and its analysis with the help of UN process indicators. The data presented here were not collected in a research setting but extracted from the facility registers and records filled in by staff nurses. Mainly four out of six process indicators have been mentioned here to measure the progress of EmOC interventions. A special effort was given by a group of qualified monitoring team of MIS-Health to collect and analyze the data. Monthly reporting forms were also used to collect data. Maternal Mortality Ratio (MMR) is now used as a global indicator of overall health status of women in any given country. In maternal and child health care services, Bangladesh has made a substantial progress in recent time. But still the MMR is very high, which is a major public health concern. Maternal Health Services and Maternal Mortality Survey estimated that MMR in Bangladesh ranges from 320 to 400 per 100,000 live births. EmOC has been recognized as an accepted intervention for reducing the high rate of maternal mortality. I take this opportunity to thank the MIS-Health monitoring team on their efforts and endeavors. I would also like to express my sincere thanks to doctors, nurses and other staffs who helped in extracting the data from facility records and registers. I am very much grateful to the Director General of Health Services, Dr. Md. Abul Faiz who requested me to do this job. UNICEF deserves special thanks for funding EmOC programs as well as Technical Assistance and funding support for printing this newsletter. I am grateful to Dr. S. M. Asib Nasim and Dr. Monira Parveen, Project Officer, UNICEF, Bangladesh for their continuous support and assistance. I gratefully acknowledge the efforts made by the Editorial Board, who have provided their time to review this newsletter to bring it to the present shape in many sittings. Special thanks are due to Mr. Md. Ashrafur Islam Babul who worked hard to prepare this newsletter.

(Professor Dr. Abul Kalam Azad)

TRIBUTES



The Editorial Board of Voice of MIS gratefully remembers Dr. Md. Abdul Jalil PK, the former Director of MIS (Health), DGHS, who went to LPR on 03 March 2008. Born in 1951, Dr. Jalil hailed from a respected Muslim family of Bogra. He completed his MBBS in 1974 from Rajshahi Medical College and joined the Government Health Services in November 1974. He became Director of MIS (Health) on 27 August 2006. Before that he served in MIS (Health) in the capacity of Chief, Health Information Unit (HIU) from 3 July 2005. Before joining MIS (Health), Dr. Jalil also served the health services in important capacities, like Deputy Director, National Institute of Traumatology and Orthopedic Rehabilitation (NITOR) (07-04-2004 to 02-07-2005), Assistant Director (Discipline), DGHS (13-03-97 to 07-04-2004) and Division Chief, Institute of Public Health Nutrition (IPHN) (24-02-1997 to 12-03-1997). We acknowledge the contributions of Dr. Jalil for his excellent dynamism in adding momentum to activities of MIS (Health). He was the Chief Editor of Voice of MIS from 2006. We wish healthy, active, peaceful and successful life of Dr. Jalil.

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Health education session on danger signs of pregnancy

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managing obstetric complications. Reduction of maternal mortality has been set as one of the priority objectives in the strategic document of ongoing Health, Nutrition and Population Sector Program (HNPS) to achieve the MDGs.

To ensure 24 hours availability, geographical accessibility and affordability of EmOC services to those who are not currently receiving, DGHS with support from UNICEF has strengthened 191 facilities (59 district Hospitals and 132 Upazila Health Complexes) with equipments, capacity development and positioning of skilled human resources. Management Information System of EmOC facilities has been strengthened. Monitoring and supervision mechanism at different tiers has also been institutionalized. This Newsletter focuses on the statistical data of EmOC performances of the designated facilities such as Medical College Hospitals, District Hospitals and Upazila Health Complexes under the Directorate General of Health Services (DGHS). It has consolidated and analyzed service data from facilities during the period from January to December 2007 and compared it with the data from January to December 2006. This allowed to measure change over time. It also states briefly the monitoring procedure of Emergency Obstetric Care services through estimation of the UN process indicators. The article also covers the trend of current issues and future needs of the program.

Coverage of facilities

Data from 12 Medical College Hospitals, 59 District Hospitals (DHs) and 132 Upazila Health Complexes (UHCs) were analyzed. It is to be noted that all are public facilities. Type and number of facilities were mentioned division-wise for the purpose of the analysis. Data represent the time period of Jan-Dec 2006 and Jan-Dec 2007.

Sources of data

In order to standardize the service statistics of EmOC of different facilities, two other secondary sources of data were collected from the population censuses of 1991 and 2001. The later were used to estimate the growth rates for each division. The exponential methods were applied for this purpose. Populations for the year 2006 and 2007 were projected on the assumption of a constant growth rate (1.48 per hundred). The crude birth rate (CBR) was calculated as constant 20.0 births per thousand populations (Bangladesh Bureau of Statistics 2005). Finally, the CBR and the projected population of year 2006 and 2007 by division, district and upazila were used to generate the

expected number of births for each area. These numbers of births were used to calculate the process indicators.

Process Indicators for performance analysis

To measure the coverage of EmOC program, evaluation of the present status of EmOC services is essential. In this EmOC Newsletter, process indicators have been used for monitoring the progress. These indicators are provided very useful information than those of impact indicators.

Results

The proportion of all births that take place in a public EmOC facilities serves as a crude indicator for the utilization of EmOC facilities. In Bangladesh from January to December 2006, the proportion of all births is 5.14% (Annex-1, Table-2) but in 2007 (Jan-Dec), this indicator is 6.69% (Annex-1, Table-1). Charts-1 and 5 (Annex-2) show the proportion of births in EmOC facilities in different divisions from January to December 2006 and from January to December 2007. The highest percent of birth is found in Sylhet division (7.33% and 8.60% respectively) while the lowest is in Barisal division (3.16% and 4.39% respectively).

The proportion of women with obstetric complication who were treated at different EmOC facilities during the period of January to December 2006 and in 2007 (Jan-Dec) is 22.82% and 27.17% respectively. Met need by division is shown in Charts-2 and 6 (Annex-2).

In the same period of 2006 and 2007 (January to December), there is a variation of Met Need from division to division. It varies from as low as 16.47% and 23.40% in Rajshahi division to as high as 27.70% in Khulna division. In the period of January to December 2007, the highest rate is in Sylhet division (50.81%).

The indicator of Caesarian section shows the proportion of women in the population giving births by C-section in public EmOC facilities. It is one of the important indicators for monitoring access to critical EmOC services. Of the total expected number of births in the country, as can be seen from Tables 1 and 2 (Annex-1), Caesarian section delivery was about 1.57% and 2.21% in public EmOC facilities during the same period (January to December) of 2006 and 2007 respectively. The highest percentages are found (2.25% and 2.67%) in Sylhet division, while the lowest in Rajshahi division (1.16% and 1.90%).

Case fatality rate gives rough indication of quality of EmOC services. The case fatality rate is found to be 1.50% (Annex-1, Table-1), which is higher than the minimum accepted value (<1%). Chart-4 (Annex-2) shows the percentage of case fatality by division. The highest case fatality is found in Barisal division (2.65%), while the lowest in Khulna division (1.05%). However, this does not necessarily reflect the performance gap in any facility, because many cases attended the facilities late that hampered patient management.

National trend of EmOC Performance

Charts-1a and 1b show 31.79% increase in total births in EmOC facilities, 20.71% increase in number of complicated cases managed at these facilities and 42.80% increase in Caesarian sections during Jan-Dec 2007 compared to Jan-Dec 2006.

Chart-2a shows that the total births in EmOC facilities increased moderately by division. The highest percentage increase (41.03%) is found in Rajshahi division, while the lowest in Dhaka division (25.44%).

Number of total complicated cases treated in EmOC facilities has also increased moderately over the same period. Chart-2b shows that treated complicated cases in 5 divisions (Barisal, Chittagong, Khulna, Rajshahi and Sylhet) increased but treated complicated cases in Dhaka division decreased during the same comparison period.

Chart-2c indicates that the percentage of Caesarian section performed in EmOC facilities in all divisions during the comparison period has increased.

Key findings

- ▶ Out of the total expected births during the period Jan-Dec 2006 and Jan-Dec 2007 (~2.79 million and ~2.83 million), 5.14% and 6.69% births took place in the EmOC facilities (Annex-1, Tables-1 and 2);
- ▶ Total births, complications treated and Caesarian sections in EmOC facilities were increased moderately during the period of Jan-Dec 2007 compared to Jan-Dec 2006 (Annex-2, Chart-1b);
- ▶ The EmOC facilities met 27.17% of the need of obstetric complications for the period of January-December 2007 (Annex-1, Table-1). Findings of met need varied significantly by divisions (Annex-2, Chart-6). It ranged from as low as 23.40% in Rajshahi division to as high as 50.81% in Sylhet division;
- ▶ Caesarian sections contributed 2.21% of all births taken

place during the period of Jan-Dec 2007. The variations among the divisions are also significant. The highest rate of Caesarian births is found in Sylhet division (2.67%) while the lowest in Rajshahi division (1.90%);

- ▶ Outcome of deliveries shows that more than 7% and 8% stillbirths took place at EmOC facilities in Jan-June 2007 and Jan-Dec 2006 respectively, while 92.73% and 92.06% respectively were live births in the same periods;
- ▶ Case Fatality Rate (CFR) among women, who came with obstetric complications to EmOC facilities, was 1.50% during the period of Jan-Dec 2007. The variations among the facilities are also significant. The highest rate of case fatality is found in Barisal Division (2.16%) while the lowest in Khulna Division (1.03%).

Limitations

- EmOC data of designated 13 Medical College Hospitals, 59 District Hospitals and 132 Upazila Health Complexes were considered for analysis. Data of one Medical College were not used due to incompleteness.
- In calculating process indicators for the divisions, data of MCWCs and other private/NGO hospitals were not included.
- Only EmOC facilities of primary, secondary and tertiary level hospitals under DGHS (public sector) were included in this analysis.
- Data were collected by the facilities themselves and not by the MIS team of DGHS. So, validation of data could not be possible.

Recommendations

1. Make the present number of designated EmOC facilities fully functioning as CEOC to meet substantial amount of the Unmet Need of EmOC services;
2. Strengthen monitoring and supervision by concerned authority at different tiers and carry out periodic review of EmOC performances regularly to yield improvement in performances;
3. Strengthen and develop capacity of divisional MIS system
4. For effective EmOC services, accurate and complete record keeping is necessary. For complete analysis of UN process indicators, EmOC performance report from MCWC, NGOs and Private Clinic's performance are needed to be included in future;
5. Continuous training/ orientation/ refresher training needs to be ensured for the service providers as well as data recorders of the facilities;
6. Ensure 24 hours availability of quality EOC services through uninterrupted availability of the consultants (Obs & Gyn / Anesthesia) and/or trained MOs in the District Hospitals and Upazila Health Complexes;

Acknowledgement

Professor Dr. Md. Abul Faiz, Director General of Health Services

Dr. S. M. Asib Nasim and **Dr. Monira Parveen**, UNICEF, Bangladesh

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Annexure-1

Performances of designated EmOC facilities during the period of January to December 2007

Table-1 represents the performance statistics by division and facilities. It provides the actual statistics of performances for the period January 2007 to December 2007. Performance of EmOC facilities in six divisions based on four process indicators i.e. proportion of all births, met need, proportion of Cesarean sections as percentage of all births and facility based case fatality rate.

Table-1: Statistical Data during January to December, 2007 by facilities (total 203 facilities)

Sl. No.	Medical College Hospital/District Hospital/Upazila Health Complexes	Estimated Population (2007)	Expected Birth (Jan-Dec07)	Expected Complications (Jan-Dec07)	Admission in Hospital	Complications treated	Normal Delivery	Fem/VACDO	Others	Cesarian Section	Total Delivery	Live Birth	Still Birth	Refused	Maternal Death	Neonatal Death	Proportion (%) of all Birth in EmOC Facilities	Met need for EmOC	CS as % of all births	Case Fatality Rate
1	Barguna District Hospital	965922	19318	2898	1278	542	269	13	4	155	441	399	45	154	9	1	2.28	18.70	0.80	1.66
2	Bhola District Hospital	1946795	38936	5840	1379	718	529	7	4	29	569	451	137	69	23	0	1.46	12.29	0.07	3.20
3	Jhalakathi District Hospital	791348	15835	2375	752	240	162	2	0	45	209	200	9	139	4	1	1.32	10.10	0.28	1.67
4	Pataakhali District Hospital	1674399	33486	5023	2884	1467	614	4	0	605	1223	1154	82	194	26	18	3.65	29.21	1.81	1.77
5	Pirojpur District Hospital	1257073	25141	3771	846	278	209	2	4	120	335	314	27	32	6	4	1.33	7.37	0.48	2.16
	District Hospitals	6635837	132717	19908	7139	3245	1783	28	12	954	2777	2518	300	588	68	24	2.00	16.30	0.72	2.10
6	Betaga, UHC, Barguna	129618	2592	389	150	71	61	0	13	0	74	73	1	20	1	0	2.85	18.26	0.00	1.41
7	Patharghata, UHC, Barguna	185513	3710	557	222	126	79	0	0	0	79	76	4	38	1	1	2.13	22.64	0.00	0.79
8	Banarjipur, UHC, Barisal	175065	3501	525	1055	198	530	0	0	165	695	669	36	75	0	0	19.85	37.70	4.71	0.00
9	Charfashin, UHC, Bhola	474949	9499	1425	689	382	289	0	0	1	290	243	47	105	11	0	3.05	26.81	0.01	2.88
10	Morupura, UHC, Bhola	72696	1454	218	26	6	20	0	0	0	20	12	8	6	0	0	1.38	2.75	0.00	0.00
11	Nalchiti, UHC, Jhalakathi	209538	4191	629	166	80	90	0	0	0	90	89	1	34	0	0	2.15	12.73	0.00	0.00
12	Burghal, UHC, Pataakhali	349331	6987	1048	254	81	99	1	0	39	139	131	10	24	0	0	1.99	7.73	0.56	0.00
13	Kalapara, UHC, Pataakhali	230982	4620	693	823	411	273	4	2	222	501	462	42	25	2	2	10.84	59.31	4.81	0.49
14	Mafbaria, UHC, Pirojpur	270965	5419	813	448	264	149	6	0	11	166	157	13	121	1	0	3.04	32.48	0.20	0.38
15	Nazirpur, UHC, Pirojpur	202018	4040	606	152	86	66	0	0	0	66	63	3	40	1	0	1.63	14.19	0.00	1.16
	Upazila Health Complexes	2300676	46014	6902	3985	1705	1656	11	15	438	2120	1975	167	488	17	3	4.61	24.70	0.95	1.00
	Barisal Division	9120157	186403	27960	11124	4950	3439	39	27	1392	4897	4493	467	1076	85	27	2.63	17.70	0.75	1.72
16	Bandarban District Hospital	243753	6875	1031	317	227	86	0	1	20	107	98	9	18	2	2	1.56	22.01	0.29	0.88
17	Brahmanbaria District Hospital	2718084	54362	8154	2408	1027	487	0	3	601	1091	901	199	7	28	24	2.01	12.59	1.11	2.73
18	Chandpur District Hospital	2561536	51231	7685	1907	431	879	0	7	143	1029	915	114	134	9	0	2.01	5.61	0.28	2.09
19	Chittagong District Hospital	7479777	149596	22439	718	157	241	0	2	288	531	529	5	14	0	0	0.35	0.70	0.19	0.00
20	Comilla District Hospital	5248004	104960	14744	1382	926	296	0	1	758	1055	1026	34	15	2	2	1.01	5.88	0.72	0.32
21	Cox's Bazar District Hospital	2011216	40224	6034	3295	1231	545	10	19	742	1316	1180	163	135	18	4	3.27	20.40	1.84	1.46
22	Feni District Hospital	1378462	27569	4135	4065	2820	1508	42	53	1213	2816	2621	237	60	4	0	10.21	68.19	4.40	0.14
23	Kharschari District Hospital	590829	11817	1772	970	415	390	37	3	121	551	524	32	8	4	0	4.66	23.41	1.02	0.96
24	Laxmipur District Hospital	1699149	33983	5097	1450	1217	315	68	4	380	767	657	123	0	16	0	2.26	23.87	1.12	1.31
25	Noakhali District Hospital	2938299	58766	8815	3665	742	1096	57	32	1187	2372	2115	304	16	26	0	4.04	8.42	2.02	3.50
26	Rangamati District Hospital	602021	12004	1801	671	322	193	15	0	36	244	229	16	49	4	0	2.03	17.88	0.30	1.24
	District Hospitals	27569308	551386	82708	20848	9515	6036	228	125	5489	11879	10795	1236	456	114	32	2.15	11.50	1.00	1.20
27	Lama UHC, Bandarban	92768	1855	278	175	37	62	10	3	5	80	71	11	10	3	3	4.31	13.29	0.27	3.11
28	Bachchanpur UHC, Brahmanbaria	309005	6180	927	147	42	81	19	4	0	104	89	15	15	0	0	1.68	4.53	0.00	0.00
29	Nasirapur UHC, Brahmanbaria	289916	5798	870	143	80	57	0	0	0	57	51	6	32	0	0	0.98	9.20	0.00	0.00
30	Sarail UHC, Brahmanbaria	297140	5943	891	315	55	213	1	0	40	254	244	10	21	0	0	4.27	6.17	0.67	0.00
31	Faridgong UHC, Chandpur	428382	8568	1285	203	8	158	0	2	0	160	150	10	30	0	0	1.87	0.62	0.00	0.00
32	Mariab UHC, Chandpur	207299	4146	622	446	31	185	0	0	1	186	182	4	84	1	1	4.49	4.98	0.02	3.23
33	Sharnati UHC, Chandpur	232993	4660	699	381	46	194	6	4	0	204	192	12	67	0	0	4.38	6.58	0.00	0.00
34	Banskhali UHC, Chittagong	444087	8882	1332	878	368	376	26	0	65	467	420	47	85	0	0	5.26	27.62	0.73	0.00
35	Fatikohari UHC, Chittagong	503044	10061	1509	2783	1788	1793	48	35	406	2282	2219	70	147	0	0	22.68	18.48	4.04	0.00
36	Lahajura UHC, Chittagong	304822	6096	914	1121	142	856	0	5	0	861	846	23	141	0	0	14.12	15.53	0.00	0.00
37	Mirrenowari UHC, Chittagong	407168	8143	1222	884	360	441	54	0	0	495	478	20	206	1	1	6.08	29.47	0.00	0.28
38	Patiya UHC, Chittagong	366626	7333	1100	1586	112	1236	0	7	0	1243	1216	35	222	0	0	16.95	10.18	0.00	0.00
39	Duadkandi UHC, Comilla	625439	12509	1876	2042	308	1458	4	26	60	1548	1487	71	130	0	0	12.38	16.42	0.48	0.00
40	Teknaf UHC, Cox's Bazar	229725	4594	689	157	28	128	0	1	0	129	104	25	1	0	0	2.81	4.06	0.00	0.00
41	Pararam UHC, Feni	226364	4527	679	522	207	285	4	12	12	313	300	16	61	0	0	6.91	30.48	0.27	0.00
42	Panchari UHC, Khagrachari	72673	1453	218	114	36	70	0	0	0	70	66	4	31	0	1	4.82	16.51	0.00	0.00
43	Ramgong UHC, Laxmipur	325213	6504	976	101	51	17	7	0	25	49	47	3	17	1	0	0.75	5.23	0.38	1.96
44	Rangati UHC, Laxmipur	449596	8992	1349	185	104	47	0	0	75	122	109	14	26	0	0	1.36	7.71	0.83	0.00
45	Compenigong UHC, Noakhali	245224	4904	736	468	255	85	0	0	46	241	209	40	42	1	0	4.91	34.66	0.94	0.39
46	Hatia UHC, Noakhali	389999	7800	1170	82	42	40	12	11	0	63	29	35	16	3	0	0.81	3.59	0.00	7.14
47	Baghaichari UHC, Rangamati	95259	1905	286	62	14	46	0	0	3	49	44	5	13	0	0	2.57	4.90	0.16	0.00
	Upazila Health Complexes	6542751	130855	19628	12795	4114	7938	191	110	738	8977	8553	476	1397	10	8	6.86	20.96	0.56	0.24
	Chittagong Division	27569308	551386	82708	33643	36229	13974	420	235	6227	20856	19348	1712	1853	124	40	3.78	16.48	1.13	0.91
48	Faridpur District Hospital	1991967	39839	5976	2579	1245	938	0	17	533	1488	1417	73	6	14	1	3.74	20.83	1.34	1.12
49	Gazipur District Hospital	2312631	46253	6938	2438	1136	942	0	5	190	1137	1111	40	298	2	9	2.46	16.37	0.41	0.18
50	Gopalganj District Hospital	1316533	26331	3950	1399	1054	269	2	0	528	799	732	83	3	9	1	3.03	26.69	2.01	0.83
51	Jamalpur District Hospital	2407251	48145	7232	3547	2444	779	2	0	662	1443	1308	141	64	13	0	3.00	33.84	1.38	0.53
52	Keshoregong District Hospital	2922983	58460	8769	4151	2084	1008	16	14	1128	2166	1947	255	163	33	8	3.71	23.77	1.93	1.58

Sl. No.	Medical College Hospitals/Pariksha Hospitals/Upadhi Health Complexes	Estimated Population (2007)	Expected Birth (Jan-Dec07)	Expected Complications (Jan-Dec07)	Admission in Hospital	Complications treated	Normal Delivery	For/VAC/DO	Others	Cesarian Section	Total Delivery	Live Birth	Still Birth	Referred	Maternal Death	Neonatal Death	Proportion (%) of all Birth in EmOC Facilities	Met need for EmOC	CS as % of all births	Case Fatality Rate
53	Madaripur District Hospital	1291547	25831	3875	990	654	200	1	3	64	268	224	46	93	3	1	1.04	16.88	0.25	0.46
54	Manikgonj District Hospital	1488101	29762	4464	2009	654	500	1	10	298	809	764	49	42	2	0	2.72	14.65	1.00	0.31
55	Munshigonj District Hospital	1473470	29469	4420	1126	164	478	17	0	147	642	613	37	36	1	0	2.18	3.71	0.50	0.61
56	Narayanganj District Hospital	2481204	49624	7444	1046	118	705	0	3	250	958	946	14	1	0	0	1.93	1.59	0.50	0.09
57	Narshingdi District Hospital	2173846	43477	6522	1207	127	463	0	1	173	617	601	42	44	6	0	1.47	1.95	0.40	4.72
58	Netrokona District Hospital	2253171	45063	6780	3045	1225	1195	1	44	245	1485	1394	128	330	5	2	3.30	18.12	0.54	0.41
59	Rajbari District Hospital	1088478	21770	3265	1070	743	358	0	1	102	461	453	31	65	2	1	2.12	22.75	0.47	0.27
60	Shariatpur District Hospital	1235241	24705	3706	1289	608	428	0	1	239	670	612	60	35	4	0	2.71	16.41	0.97	0.66
61	Sherpur District Hospital	1449283	28986	4348	1618	1049	384	0	4	230	618	539	86	102	24	0	2.13	24.13	0.79	2.29
62	Tangail District Hospital	3728082	74562	11184	4805	2297	1758	27	29	1182	2996	2799	224	84	34	5	4.02	20.54	1.59	1.48
District Hospitals		28613788	592276	88841	32319	15602	10405	67	134	5971	16577	15442	1309	1386	152	28	2.80	17.56	1.01	0.97
63	Dohar UHC, Dhaka	218638	4373	656	648	224	302	51	2	110	465	441	23	49	0	0	10.63	14.15	2.52	0.09
64	Keraniganj UHC, Dhaka	691734	13835	2075	323	47	167	2	0	82	251	250	4	27	0	0	1.81	2.26	0.59	0.09
65	Nawabganj UHC, Dhaka	335751	6715	1007	782	309	274	21	6	162	463	461	12	61	0	0	6.89	20.68	2.41	0.09
66	Alfadanga UHC, Faridpur	107261	2145	322	424	183	165	1	0	25	191	183	8	81	0	1	8.90	56.87	1.17	0.09
67	Bhanga UHC, Faridpur	263238	5265	790	741	219	331	14	23	48	416	396	20	91	0	0	7.90	27.73	0.91	0.09
68	Kalikair UHC, Gazipur	291516	5830	875	779	98	427	34	2	75	538	521	17	34	0	0	9.23	11.21	1.29	0.09
69	Kaliganj UHC, Gazipur	272837	5479	822	698	247	326	0	0	117	443	422	21	100	0	0	8.09	30.06	2.14	0.09
70	Kotalipara UHC, Gopalganj	259718	5194	779	347	170	158	0	1	2	141	135	6	59	1	1	2.71	21.82	0.94	0.59
71	Tongipara UHC, Gopalganj	108404	2168	325	600	450	174	45	0	142	361	336	26	11	0	0	16.65	38.37	6.55	0.09
72	Dewanganj UHC, Jamalpur	262903	5240	786	150	82	65	0	0	65	58	10	23	0	0	0	1.24	10.43	0.90	0.09
73	Sariatbari UHC, Jamalpur	362955	7259	1089	1386	655	718	1	17	0	736	684	52	192	1	0	10.14	60.15	0.90	0.15
74	Bhairab Bazar UHC, Keshoragonj	282121	5642	846	918	312	409	1	14	171	595	562	41	59	0	4	10.55	36.86	3.03	0.09
75	Karimganj UHC, Keshoragonj	287836	5757	864	586	131	239	0	0	11	250	235	19	129	0	1	4.34	15.17	0.19	0.09
76	Mithamoin UHC, Keshoragonj	139335	2787	418	83	14	56	2	0	0	58	45	13	12	0	0	2.08	3.35	0.90	0.09
77	Nikli UHC, Keshoragonj	136179	2724	409	115	48	67	0	0	0	67	60	8	46	0	0	2.46	11.75	0.90	0.09
78	Shibbar UHC, Madaripur	363252	7265	1090	302	114	92	0	0	51	143	135	8	22	0	1	1.97	10.46	0.70	0.09
79	Hariampur UHC, Madaripur	209310	4186	628	361	127	201	33	0	0	234	227	7	38	0	5	5.59	20.23	0.90	0.09
80	Shivuya UHC, Manikgonj	170836	3417	513	635	295	299	0	0	20	319	313	6	45	0	0	9.34	57.56	0.59	0.09
81	Sinajikhan UHC, Manikgonj	275491	5510	826	134	78	52	0	0	2	54	53	1	45	0	0	0.98	9.44	0.94	0.09
82	Bhaluka UHC, Mymensingh	352736	7055	1048	847	272	463	4	7	45	529	502	35	42	0	0	7.50	25.70	0.78	0.09
83	Gaighata UHC, Mymensingh	463633	9273	1391	457	150	268	12	0	0	280	251	29	38	0	0	3.02	10.78	0.90	0.09
84	Bahaghat UHC, Mymensingh	308525	6170	926	107	52	50	0	0	0	50	48	2	39	0	0	0.81	5.62	0.90	0.09
85	Nandail UHC, Mymensingh	423673	8473	1271	937	338	379	0	0	9	388	355	33	133	1	0	4.58	26.59	0.11	0.39
86	Rupganj UHC, Narayanganj	457209	9144	1372	359	109	233	0	0	17	250	245	5	23	0	0	2.73	7.95	0.19	0.09
87	Mosabardi UHC, Narshingdi	278851	5577	837	394	189	203	1	0	35	239	225	20	48	0	0	4.29	22.59	0.63	0.09
88	Kalmakanda UHC, Netrokona	267741	5355	803	429	238	173	50	11	0	214	180	54	27	5	5	4.37	32.12	0.90	1.94
89	Kendua UHC, Netrokona	312228	6245	937	435	73	354	0	0	0	354	275	79	73	3	0	5.67	7.79	0.90	4.11
90	Belikandi UHC, Rajbari	213220	4264	640	566	340	217	44	0	127	388	369	19	24	1	0	9.10	53.15	2.98	0.28
91	Bhadraiganj UHC, Shariatpur	271787	5436	815	119	21	98	7	1	0	106	90	17	17	0	0	1.95	2.58	0.90	0.09
92	Goshairhat UHC, Shariatpur	140477	2810	421	234	122	98	0	0	113	101	13	43	0	0	0	4.02	28.95	0.90	0.09
93	Zaara UHC, Shariatpur	213425	4269	640	313	16	144	1	0	0	145	139	6	28	0	0	3.40	2.50	0.90	0.09
94	Iterniganj UHC, Sherpur	173671	3473	521	56	3	52	0	0	0	52	50	2	2	0	0	1.50	0.58	0.90	0.09
95	Gopalganj UHC, Tangail	307564	6151	923	862	55	287	0	2	17	306	291	16	145	0	0	4.97	5.96	0.28	0.09
96	Madhatpur UHC, Tangail	476755	9535	1430	1233	470	261	45	26	217	549	496	56	214	2	4	5.76	29.27	2.28	0.48
97	Nagarpur UHC, Tangail	292477	5850	877	644	223	354	2	0	8	364	341	21	85	0	0	6.22	25.42	0.14	0.09
98	Saidpur UHC, Tangail	276109	5522	828	992	383	219	0	0	339	558	558	5	52	1	0	10.10	46.24	6.14	0.28
Upazila Health Complexes		10269598	205392	30809	18796	6827	8355	371	127	1842	10695	10037	714	2207	15	23	5.21	22.16	0.90	0.22
Dhaka Division		44563169	891263	133690	51115	22429	18760	638	261	7813	27272	25479	2023	3591	167	51	3.06	16.78	0.88	0.74
99	Bagerhat District Hospital	1733759	34675	5201	793	603	188	17	0	127	332	308	24	64	5	0	0.96	11.59	0.37	0.83
100	Chaudhama District Hospital	1148943	22979	3447	3813	750	1949	0	29	165	2143	2070	94	57	15	4	9.33	21.76	0.72	2.00
101	Jessore District Hospital	2822899	56458	8469	4157	1074	1194	11	31	980	2216	2080	173	68	20	6	3.93	12.68	1.74	1.86
102	Jherardha District Hospital	1792761	35855	5378	3506	1429	2074	0	35	503	2612	2503	146	13	18	0	7.28	26.57	1.40	1.26
103	Khulna District Hospital	2695177	53904	8086	1428	966	462	0	0	318	780	735	46	17	5	0	1.45	11.95	0.59	0.52
104	Kustia District Hospital	1985842	39717	5958	4987	2702	1608	0	28	1238	2874	2738	138	31	27	0	7.24	45.35	3.12	1.60
105	Masura District Hospital	939382	18788	2818	2560	1058	897	1	35	565	1498	1450	80	64	10	0	7.97	37.54	3.91	0.95
106	Mecherpur District Hospital	671662	13433	2015	3751	488	2268	0	0	168	2436	2375	67	0	4	0	18.13	24.22	1.25	0.82
107	Narail District Hospital	794286	15886	2383	1082	331	294	0	1	217	512	476	38	44	7	1	3.22	13.89	1.37	2.11
108	Shakhsa District Hospital	2109013	42180	6327	1565	617	742	1	15	187	945	913	43	10	5	0	2.24	9.75	0.44	0.81
District Hospitals		16693725	333875	50081	27642	10018	11676	30	174	4468	16348	15648	849	368	116	11	4.90	20.00	1.34	1.16
109	Fakirhat UHC, Bagerhat	149507	2990	449	828	293	435	6	1	157	599	575	21	32	1	0	20.03	65.33	5.25	0.34
110	Alamdanga UHC, Chaudhama	352485	7050	1057	884	208	543	0	0	157	700	687	21	13	0	0	9.93	19.67	2.23	0.60
111	Jharnagar UHC, Chaudhama	186815	3736	560	1201	200	827	0	7	22	856	825	32	44	0	0	22.91	35.69	0.59	0.60
112	Abhaynagar UHC, Jessore	265502	5310	797	1137	447	261	0	0	176	437	419	22	45	1	0	8.23	56.12	3.31	0.22
113	Chowpacha UHC, Jessore	241018	4820	723	2805	797	1354	44	19	473	1890	1850	57	151	1	1	19.21	10.23	9.81	0.13
114	Jhikargacha UHC, Jessore	316480	6330	949	568	230	249	1	0	26	276	263	16	78	0	9	4.36	24.22	0.41	0.60
115	Jharinkanda UHC, Jherardha	194456</																		

Sl. No.	Medical College Hospitals/ District Hospitals/ Upazila Health Complexes	Estimated Population (2007)	Expected Birth (Jan.-Dec/07)	Expected Complications (Jan.-Dec/07)	Admission in Hospital	Complications treated	Normal Delivery	Four/VAC/DO	Others	Cesarian Section	Total Delivery	Live Birth	Still Birth	Referred	Maternal Death	Neonatal Death	Proportion (%) of all Birth in EmOC Facilities	Mid need for EmOC	CS as % of all births	Case Fatality Rate
119	Dumuria UHC, Khulna	315269	6305	946	386	130	185	8	0	12	205	194	11	92	0	0	3.25	13.74	0.19	0.09
120	Faltala UHC, Khulna	82275	1646	247	680	285	324	5	8	43	380	361	19	16	0	0	23.09	15.47	2.61	0.09
121	Koyna UHC, Khulna	220054	4401	660	791	228	58	3	0	77	138	122	18	27	0	1	3.14	34.54	1.75	0.09
122	Paikgacha UHC, Khulna	282030	5641	846	857	608	248	58	2	149	457	450	8	89	2	1	8.10	71.86	2.64	0.33
123	Bheramara UHC, Kushtia	200578	4012	602	674	187	358	0	1	7	366	361	7	110	0	0	9.12	31.08	0.17	0.09
124	Daulatpur UHC, Kushtia	507456	10149	1522	1044	169	455	0	2	0	457	448	20	81	1	0	4.50	11.10	0.00	0.59
125	Mohammadpur UHC, Magura	215257	4315	647	495	136	346	0	5	7	358	350	8	41	1	2	8.30	21.01	0.16	0.74
126	Shalikhia UHC, Magura	167888	3358	504	153	79	63	0	0	5	68	65	3	5	0	0	2.03	15.69	0.15	0.09
127	Gangni UHC, Meherpur	304867	6097	912	1916	73	1332	0	0	0	1332	1310	26	48	0	0	21.80	7.98	0.00	0.09
128	Kalin UHC, Narail	235004	4700	705	299	92	89	0	0	14	103	92	11	27	1	0	2.19	13.05	0.30	1.09
129	Debhata UHC, Satkhira	137917	2758	414	288	38	131	0	0	39	170	171	2	11	0	0	6.16	9.18	1.41	0.09
130	Kolaroa UHC, Satkhira	254049	5081	762	996	341	390	53	9	221	673	657	23	42	0	0	13.25	44.74	4.35	0.09
131	Sharmagar UHC, Satkhira	360669	7213	1082	486	247	150	0	0	44	194	186	8	75	0	1	2.69	22.83	0.61	0.09
132	Upazila Health Complexes	5707895	114158	17124	18802	5662	9053	206	63	2074	11396	11068	389	1181	11	19	9.98	33.07	1.82	1.19
133	Khulna Division	16693724	333875	50981	46444	15680	20728	234	237	6542	27744	26736	1238	1549	127	26	8.31	31.31	1.96	0.81
134	Bogra District Hospital	3446669	68933	10340	2064	885	736	15	4	547	1302	1222	93	1	5	3	1.89	8.56	0.79	0.56
135	Dinajpur District Hospital	3018653	60373	9056	3529	1337	1175	6	16	730	1927	1823	119	70	28	3	3.19	14.76	1.21	2.09
136	Gaibandha District Hospital	2434294	48686	7303	2877	1335	911	15	0	778	1704	1605	104	35	19	30	3.50	18.28	1.60	1.42
137	Jouppahat District Hospital	979067	19581	2937	2700	1411	926	9	10	665	1610	1531	88	111	22	36	8.22	48.04	3.40	1.56
138	Kurigram District Hospital	2015056	40301	6045	3117	1145	1267	6	25	563	1861	1763	112	31	15	5	4.62	18.94	1.40	1.31
139	Lalmonirhat District Hospital	1262308	25266	3787	1127	516	297	1	9	69	376	313	71	44	15	1	1.49	14.15	0.72	2.80
140	Naogaon District Hospital	2727137	54543	8181	2948	892	632	0	7	270	909	824	91	66	24	1	1.67	9.81	0.59	2.99
141	Natore District Hospital	1733962	34679	5202	2555	1138	792	0	13	368	1173	1099	83	163	14	6	3.38	22.26	1.06	1.21
142	Nawabgonj District Hospital	1625081	32502	4875	2383	766	886	1	5	222	1114	1027	93	215	14	5	3.43	15.71	0.68	1.83
143	Nilphamari District Hospital	1785584	35712	5357	1938	548	1148	0	0	74	1222	1144	78	237	5	2	3.42	10.23	0.21	0.91
144	Pabna District Hospital	2474597	49492	7424	9629	1761	3844	1	64	1152	5061	4778	308	55	34	58	10.23	23.72	2.33	1.93
145	Panchagar District Hospital	957829	19157	2873	515	140	97	2	1	54	145	121	28	52	5	1	0.78	4.87	0.28	1.57
146	Shenajgonj District Hospital	3055167	61107	9166	1963	814	655	0	9	415	1079	895	184	3	21	0	1.77	9.10	0.68	2.52
147	Thakurgaon District Hospital	1388383	27768	4165	1491	473	785	0	2	205	992	872	128	0	26	1	3.57	11.36	0.74	5.50
148	District Hospitals	28903993	578089	86712	37916	13132	14151	56	165	6112	20475	19008	1580	1083	247	152	3.54	15.14	1.06	1.88
149	Sarikandi UHC, Bogra	274120	5482	822	358	83	242	0	0	0	242	228	14	76	0	0	4.41	10.09	0.00	0.00
150	Sonatala UHC, Bogra	191844	3837	576	862	230	366	10	16	135	527	495	34	67	2	4	13.74	39.96	3.52	0.87
151	Binupur UHC, Dinajpur	172505	3450	518	938	244	493	50	17	70	630	621	20	78	2	5	18.26	47.15	2.03	0.82
152	Bigonj UHC, Dinajpur	304319	6086	913	1492	120	865	0	0	27	892	851	49	136	0	1	14.66	13.14	0.44	0.00
153	Ghoraghat UHC, Dinajpur	117342	2347	352	773	207	388	41	6	34	469	454	19	101	0	4	19.98	58.89	1.45	0.00
154	Gaibandha UHC, Gaibandha	526545	10531	1580	581	185	263	0	1	2	266	245	24	106	0	3	2.53	11.71	0.02	0.00
155	Palasbari UHC, Gaibandha	263261	5265	790	332	141	152	0	0	0	152	144	9	44	1	2	2.89	17.85	0.00	0.71
156	Sundarganj UHC, Gaibandha	455151	9103	1365	472	152	266	0	0	11	275	271	6	49	0	0	3.04	11.13	0.12	0.00
157	Akkelpur UHC, Joypurhat	147084	2942	441	504	175	227	0	0	18	245	237	9	24	0	3	3.33	39.66	0.61	0.00
158	Nagarbari UHC, Kurigram	368579	7372	1106	191	77	100	0	0	1	101	86	15	30	1	0	1.37	6.96	0.01	1.30
159	Roumari UHC, Kurigram	185696	3714	557	546	226	208	0	0	17	225	213	12	44	2	1	5.08	40.57	0.46	0.88
160	Kaliganj UHC, Lalmonirhat	247239	4965	742	158	51	69	0	0	1	70	59	11	19	1	1	1.42	6.88	0.02	1.96
161	Paiganj UHC, Lalmonirhat	220763	4415	662	408	268	149	0	1	21	171	151	20	25	2	0	3.87	40.47	0.49	0.75
162	Niamtipur UHC, Naogaon	257089	5142	771	391	49	220	3	0	25	248	239	11	27	1	0	4.82	6.35	0.49	2.04
163	Patnitala UHC, Naogaon	240103	4802	720	1102	544	518	4	19	254	795	770	26	12	1	0	16.56	75.52	5.29	0.18
164	Guradagpur UHC, Natore	222638	4453	668	537	161	292	0	3	5	300	285	16	45	1	0	6.74	24.10	0.11	0.62
165	Lalpur UHC, Natore	277388	5548	832	1350	1015	582	4	1	312	899	883	16	32	1	2	16.20	21.97	5.62	0.10
166	Nachol UHC, Nawabgonj	151382	3028	454	1007	298	539	1	0	79	619	595	30	96	1	4	20.44	65.62	2.61	0.34
167	Shibgonj UHC, Nawabgonj	580125	11603	1741	1407	317	766	0	7	135	908	871	43	79	0	5	7.83	18.21	1.16	0.00
168	Jalbhain UHC, Nawabgonj	314194	6284	943	1325	524	599	9	0	137	745	708	37	110	3	3	11.86	55.59	2.19	0.57
169	Bhangora UHC, Pabna	113388	2268	340	479	198	239	0	4	8	251	240	12	92	1	1	11.07	58.21	0.35	0.51
170	Inwardi UHC, Pabna	334037	6681	1002	2005	274	1157	0	2	153	1312	1269	43	42	0	0	19.64	27.34	2.29	0.00
171	Tetulia UHC, Panchagar	121321	2426	364	319	66	212	1	8	5	226	217	10	32	2	4	9.31	18.13	0.21	3.03
172	Bagmara UHC, Rajshahi	345559	6911	1037	869	233	470	0	0	35	505	489	17	200	0	1	7.31	22.48	0.51	0.00
173	Charghat UHC, Rajshahi	212740	4255	638	2871	505	1844	21	33	129	2027	1996	41	195	0	1	17.64	79.17	3.02	0.00
174	Kamia UHC, Rangpur	244515	4896	734	231	79	95	67	0	6	148	159	9	18	0	3	3.44	10.77	0.12	0.00
175	Mithelpukur UHC, Rangpur	506587	10132	1520	2153	181	1485	14	23	82	1664	1590	19	74	0	0	15.83	11.91	0.81	0.00
176	Chouhali UHC, Serajgonj	177992	3566	534	69	37	23	0	0	0	23	20	3	25	0	0	0.65	6.93	0.00	0.00
177	Kazipur UHC, Serajgonj	305142	6103	915	191	53	138	0	0	138	128	10	24	1	0	2	2.26	5.79	0.00	1.89
178	Shahjadpur UHC, Serajgonj	536969	10739	1611	703	94	334	0	0	105	439	391	48	71	0	5	4.09	5.84	0.98	0.00
179	Tanaah UHC, Serajgonj	191684	3834	575	299	148	149	0	0	0	149	146	3	53	0	0	3.89	25.74	0.00	0.00
180	Balaidang UHC, Thakurgaon	189399	3788	568	906	316	569	0	0	262	831	823	10	11	2	1	21.94	55.61	6.92	0.63
181	Haripur UHC, Thakurgaon	148067	2961	444	672	203	262	73	5	84	424	409	19	51	6	0	14.32	45.70	3.84	0.96
182	Upazila Health Complexes	8944835	178997	26835	26496	7454	14281	299	146	2153	16878	16283	665	2088	31	54	9.43	27.78	1.20	0.42
183	Rajshahi Division	34392099	687842	103176	64406	20586	28432	354	311	8265	37353	35291	2345	3171	278	206	5.43	19.95	1.20	1.35
184	Habiganj District Hospital	2000495	40010	6001	3282	1074	1293	1	52	293	1639	1462	203	287	20	26	4.10	17.90	0.73	1.86
185	MoulaviBazar District Hospital	1838963	36779	5517	2519	874	725	25	45	162	957	824	140	264	17	2	2.60	15.84	0.44	1.95
186	Bunamangal District Hospital	2275026	45401																	

Sl. No.	Medical College Hospitals/District Hospitals/Upazila Health Complexes	Estimated Population (2007)	Expected Birth (Jan-Dec07)	Expected Complications (Jan-Dec07)	Admission in Hospital	Complications treated	Normal Delivery	For VAC/DO	Others	Cesarean Section	Total Delivery	Live Birth	Still Birth	Referred	Maternal Death	Neonatal Death	Proportion (%) of all Birth in EmOC Facilities	Met need for EmOC	CS as % of all births	Case Fatality Rate
183	Azamirgonj UHC, Habigonj	113433	2269	340	713	242	318	30	29	88	465	400	65	16	3	6	20.50	71.11	3.88	1.24
184	Charanaghata UHC, Habigonj	305210	6104	916	144	13	94	0	16	4	114	100	14	12	0	4	1.87	1.42	0.07	0.00
185	Barolekha UHC, Maulavibazar	264861	5297	795	956	394	539	11	20	0	570	521	54	133	0	0	10.76	49.59	0.00	0.00
186	Dewarabazar UHC, Sunamgonj	202087	4042	606	33	5	27	0	0	0	27	26	2	5	0	0	0.67	0.82	0.00	0.00
187	Jaganmattipar UHC, Sunamgonj	258300	5166	775	315	77	171	35	13	0	219	209	11	43	0	0	4.24	9.94	0.00	0.00
188	Bianbazar UHC, Sylhet	240378	4808	721	2111	885	1478	8	25	4	1515	1483	44	262	40	1	31.51	122.72	0.06	4.52
189	Gelapgonj UHC, Sylhet	300866	6017	903	713	143	554	0	0	1	555	542	17	72	0	4	9.22	15.84	0.02	0.00
190	Jointapur UHC, Sylhet	138835	2777	417	419	191	217	0	0	0	217	197	20	36	5	1	7.81	45.85	0.02	2.62
191	Kanaighat UHC, Sylhet	246047	4921	738	300	104	111	19	2	0	132	121	10	41	0	0	2.68	14.09	0.00	0.00
192	Upazila Health Complexes	2070037	41401	6210	5704	2054	3509	103	105	97	3814	3599	237	620	48	16	9.21	33.08	0.23	2.34
193	Sylhet Division	9026127	180523	27078	12750	4875	5775	129	202	602	6708	6144	630	1358	90	63	3.72	18.00	0.33	1.85
194	EmOC Facilities in Bangladesh	141564585	2831292	424694	28+05	82149	91109	1610	273	30843	10+05	117491	8315	2600	871	417	4.41	19.34	1.09	1.06
195	Shre-e-Bangla Medical College Hospital				4757	3210	920	7	2	2355	3284	2923	440	1	91	342				
196	Barisal Division (MCH-1)	9320157	186403	27960	4757	3210	920	7	2	2355	3284	2923	440	1	91	342	1.76	11.48	1.26	2.83
197	Chittagong Medical College Hospital				16154	4880	6697	219	137	3542	12595	11878	787	357	112	356				
198	Cornilla Medical College Hospital				3435	2298	635	4	47	1634	2320	2029	315	3	56	65				
199	Chittagong Division (MCH-2)	27569308	551386	82708	19589	7178	7332	223	184	7176	14915	13907	1102	360	168	421	2.71	8.68	1.30	2.34
200	Dhaka Medical College Hospital				10896	1013	3613	248	82	3571	7514	6952	606	607	141	183				
201	Sir Salimullah Medical College & Milford Hospital				6009	3415	1907	87	23	2496	4513	4330	232	13	10	7				
202	Mymensingh Medical College Hospital				12853	4302	2906	11	135	4881	8023	7380	731	20	132	22				
203	Begum Khaleda Zia Medical College & S S Hospital				887	2	322	0	0	562	884	868	20	3	0	3				
204	Faridpur Medical College Hospital				3321	1089	826	6	17	729	1578	1364	234	1	44	0				
205	Dhaka Division (MCH-5)	44563169	891263	133690	33966	9421	9664	352	257	32339	22512	20494	1823	644	327	215	2.53	7.35	1.37	3.33
206	Khulna Medical College Hospital				3101	580	1125	47	14	1023	2209	2050	202	6	40	22				
207	Khulna Division (MCH-1)	16693725	333875	50081	3101	580	1125	47	14	1023	2209	2050	202	6	40	22	0.66	1.16	0.31	6.90
208	Rajshahi Medical College Hospital				9816	3070	4784	62	308	2290	7444	7138	322	146	45	61				
209	Rangpur Medical College Hospital				6307	453	2530	42	41	2266	4879	4325	601	0	69	60				
210	Ziaur Rahman Medical College Hospital, Bogra				672	38	219	1	0	218	438	414	24	0	14	0				
211	Rajshahi Division (MCH-3)	34392099	687842	103176	16795	3561	7533	105	349	4734	12761	11877	947	146	128	121	1.86	3.45	0.69	3.59
212	MAG Osmani Medical College Hospital, Sylhet				13261	8884	4755	284	161	4234	8824	7843	1045	405	110	168				
213	Sylhet Division (MCH-1)	9026127	180523	27078	13261	8884	4755	284	161	4234	8824	7843	1045	405	110	168	4.89	32.81	2.34	1.24
214	Medical College Hospitals (13)	141564585	2831292	424694	91469	33234	30729	1018	967	31791	64505	59494	5550	1562	864	289	2.28	7.83	1.12	2.60
215	Total in Bangladesh	141564585	2831292	424694	35+05	8+05	16+05	263	42	240626	328+05	176985	13674	4162	1735	706	6.69	27.17	2.21	1.50

Source: MIS-Health, DGHS, Mohakhali, Dhaka.

Performance of designated EmOC facilities during the period of January to December, 2006 by divisions.

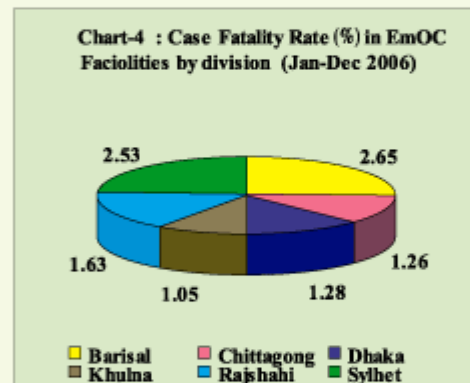
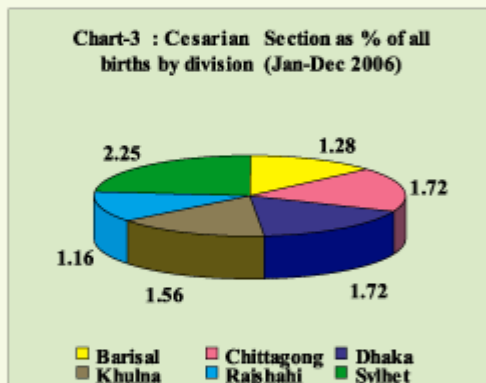
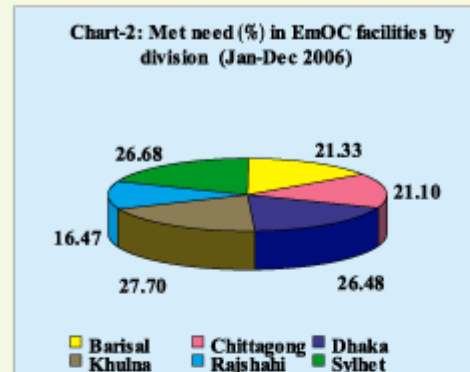
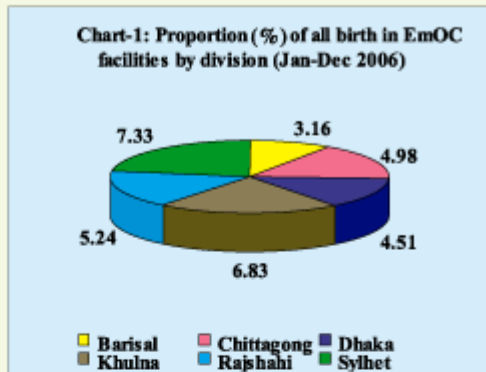
Table-2: Statistical Data during the period of January to December, 2006 by divisions (total 6 divisions)

Sl. No.	Type of Facility	Estimated Population (2006)	Expected Birth (Jan-Dec06)	Expected Complications (Jan-Dec06)	Admissions	Complications	Normal Delivery	For VAC/DO	Others	Cesarean	Total	Live Birth	Still Birth	Referred	Maternal Death	Neonatal Death	Proportion (%) of all Birth in EmOC Facilities	Met need for EmOC	CS as % of all births	Case Fatality Rate
1	Barisal Division	9193469	183869	27580	11121	5882	3370	63	17	2351	5802	5114	763	654	156	338	3.16	21.33	1.28	2.65
2	Chittagong Division	27194566	543891	81584	38291	17214	16079	766	909	9352	27100	25075	2336	1420	217	290	4.98	21.10	1.72	1.26
3	Dhaka Division	43957424	879148	131872	71303	34917	23255	784	526	15125	39689	36523	3303	2780	446	375	4.51	26.48	1.72	1.28
4	Khulna Division	16466809	329336	49400	37186	13685	16828	293	224	5139	22483	21676	1003	1078	144	47	6.83	27.70	1.56	1.05
5	Rajshahi Division	33924609	678492	101774	57202	16763	26631	405	622	7889	35535	33364	2307	1916	274	176	5.24	16.47	1.16	1.63
6	Sylhet Division	8903435	178069	26710	21637	7126	8322	316	417	4004	13059	11463	1782	1274	180	252	7.33	26.68	2.25	2.53
7	Medical College Hospital	139640305	2792806	418921	68373	30411	21622	1107	1216	22792	46737	42565	4315	432	662	1126	1.67	7.26	0.82	2.18
8	District Hospitals	116832793	2336656	350498	98274	42353	35957	355	722	15711	52702	48483	4765	2710	645	214	2.26	12.00	0.67	1.52
9	Upazila Health Complex	35348677	704974	106046	70093	22823	36906	1159	777	5357	44229	42167	2414	5980	110	138	6.26	21.52	0.76	0.48
	Bangladesh	139640305	2792806	418921	236740	95587	94485	2621	2715	43860	143668	133215	11494	9122	1417	1478	5.14	22.82	1.57	1.48

Charts

Annexure-2

Performance of 2006



Performance of 2007

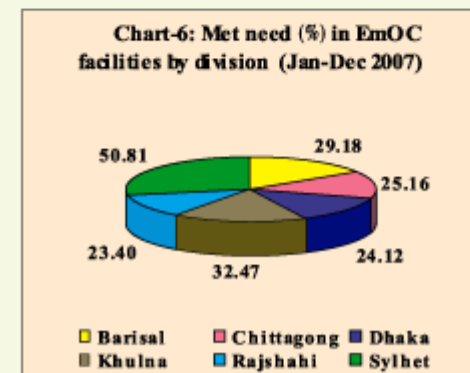
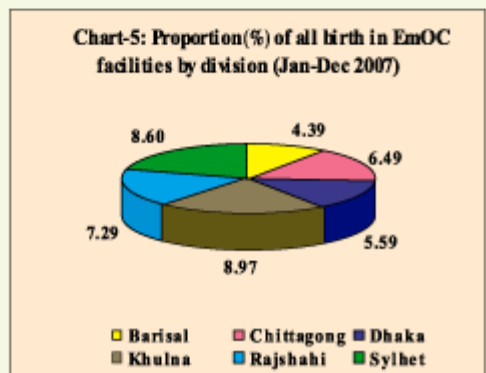


Chart-7 : Cesarean Section as % of all births by division (Jan-Dec 2007)

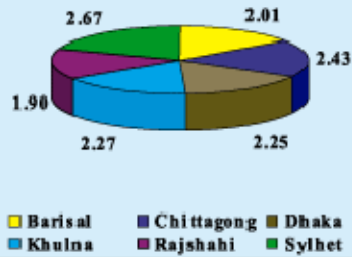
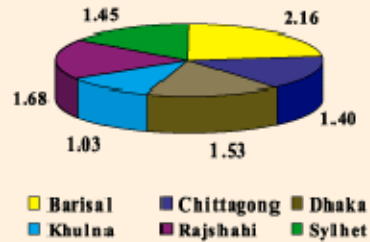


Chart-8 : Case Fatality Rate(%)in EmOC Facilities by division (Jan-Dec 2007)



Source : MIS-Health, DGHS, Mehabkhal, Dhaka, February 2008.

Trend in EmOC performances in designated facilities (Jan-Dec 2006 and Jan-Dec 2007):

The following charts show positive trends of EmOC performance in the designated facilities during the period of January to December, 2007, when compared with performance of January to December 2006.

Chart-1 a : Comparison of total birth, complication treated and cesarian section performed in EmOC facilities by period of time

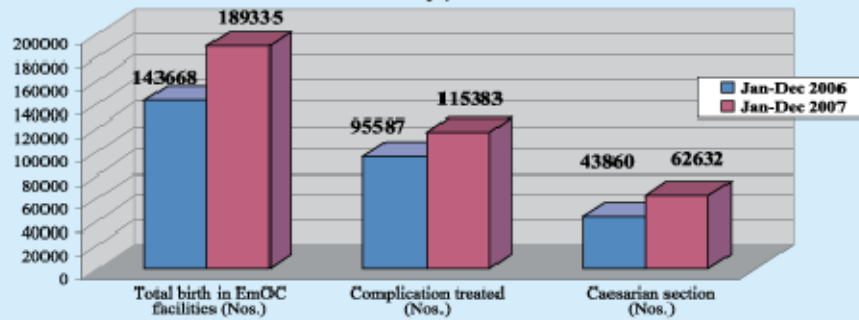


Chart-1 b : Percent increase of EmOC performances during Jan-Dec 2007 compared to Jan-Dec 2006

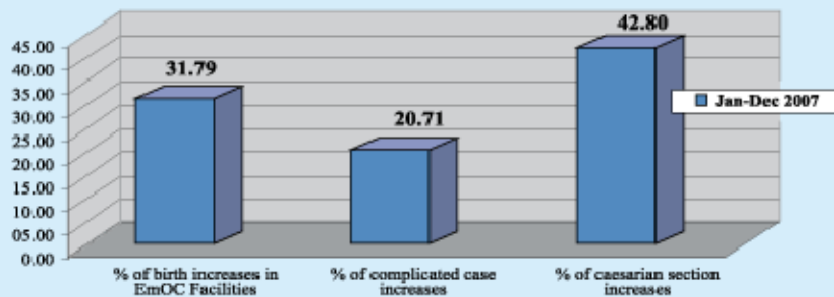


Chart-2a: Percentage increase of Total Births in EmOC Facilities by Divisions during Jan-Dec 2007 compare to Jan-Dec 2006

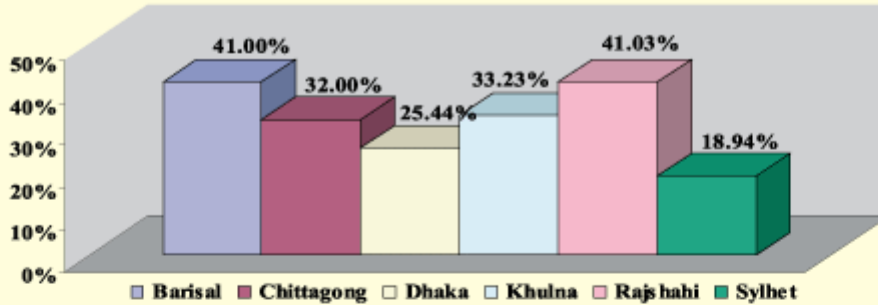


Chart-2b: Percentage change of Complicated Cases Treated in EmOC Facilities by Divisions during Jan-Dec/2007 compare to Jan-Dec 2006

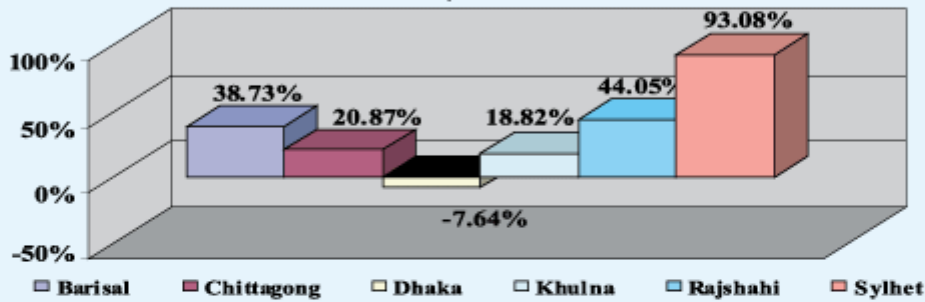
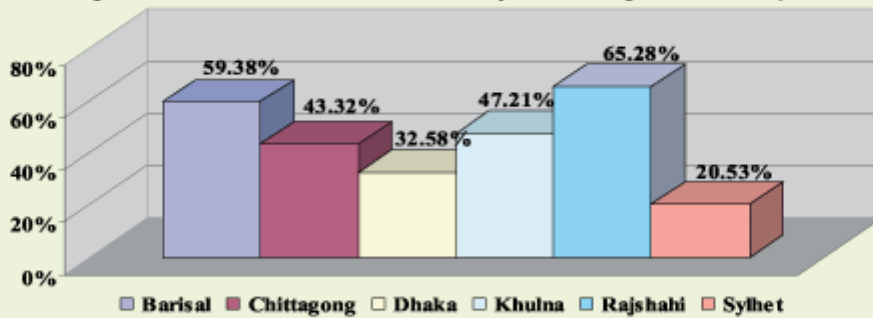


Chart-2c: Percentage increase of Cesarean section in EmOC Facilities by Divisions during Jan-Dec 2007 compare to Jan-Dec 2006



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