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Dear Readers,

The Health Management Information System unit of the Ministry of Health and Social Welfare has developed this quarterly feedback bulletin for

information sharing within the health sector and development partners. The data published is collected from the public, private; NGO and community managed/ owned health facilities from April to June 2009

## TRAINING ON GPS AND GIS

The West Africa Health Organization (WAHO) organized a five days training workshop on GPS and the use of computer equipment for the National Health Management Information System (HMIS) of member countries from the 25<sup>th</sup> to 29<sup>th</sup> May 2009 in Ouagadougou, Burkina Faso.

The objective of the training was to trained participants on how to use GPS machine and build the capacities of WAHO member countries to be able to use Geographic Information System data. The Gambia was represented by the Deputy Manager of the HMIS



Handing over of GPS machines to participants



Participants demonstrating how to take GPS coordinates

### Topic cover:

Optimal use of a laptop.  
 Using the laptop (from a software perspective).  
 Optimal use of a printer.  
 Optimal use of a scanner.  
 PowerPoint.  
 The Internet.  
 Instant messaging,  
 Web browsing and search technique.  
 Vantage point and healthmapper  
 The GPS (manipulation and site visits)

### Action for implementation:

Training of the other staff of the HMIS on the operation of the GPS machine.  
 Collection of the GPS coordinates of all the public health facilities, NGO, Community managed facilities, Village OPD clinics and PHC key villages.  
 Updating of the healthmapper database.  
 Establishment of a Geographic Information System in the health sector.

### Methodology of the training:

Pre-test questionnaire.  
 PowerPoint presentation.  
 Practical exercise.  
 Field work to collect GPS data.

### Expectation:

Participants to be able to use the GPS machine,  
 Collect GPS data, transfer the data into vantage point software and integration to the healthmapper for the production of maps with GIS information.

Sharing of HIS data and information among the WAHO members.  
 Countries to be providing GIS information in their national reports

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Table 1 Total number of malaria cases reported by the Upper River Region from April to June 2009

Number of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	5581	400	461	6442	4
	>5	6196	753	278	7227	5
	Pregnant women	511	79	55	645	0
	Total	12288	1232	794	14314	9
Percentage of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	45.42	32.47	58.06	45.00	44.44
	>5	50.42	61.12	35.01	50.49	55.56
	Pregnant women	4.16	6.41	6.93	4.51	0.00
	Total	100	100	100	100	100

Table. 2 Total number of malaria cases reported by the Lower River Region from April to June 2009

Number of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	1782	40	50	1872	0
	>5	1918	46	37	2001	3
	Pregnant women	141	14	1	156	0
	Total	3841	100	88	4029	3
Percentage of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	46.39	40.00	56.82	46.46	0.00
	>5	49.93	46.00	42.05	49.66	100.00
	Pregnant women	3.67	14.00	1.14	3.87	0.00
	Total	100	100	100	100	100

Table. 3 Total number of malaria cases reported by the Central River Region from April to June 2009

Number of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	4368	409	88	4865	3
	>5	4474	374	54	4902	1
	Pregnant women	202	23	7	232	3
	Total	9044	806	149	9999	7
Percentage of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	48.30	50.74	59.06	48.65	42.86
	>5	49.47	46.40	36.24	49.02	14.29
	Pregnant women	2.23	2.85	4.70	2.32	42.86
	Total	100	100	100	100	100

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Table. 4 Total number of malaria cases reported by the North Bank East Region April to June 2009

Number of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	2532	100	114	2746	0
	>5	3449	78	129	3656	12
	Pregnant women	135	12	16	163	0
	Total	6116	190	259	6565	12
Percentage of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	41.40	52.63	44.02	41.83	0.00
	>5	56.39	41.05	49.81	55.69	100.00
	Pregnant women	2.21	6.32	6.18	2.48	0.00
	Total	100	100	100	100	100

Table. 5 Total number of malaria cases reported by the North Bank West Region from April to June 2009

Number of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	1898	176	90	2164	2
	>5	2482	284	82	2848	1
	Pregnant women	235	208	3	446	0
	Total	4615	668	175	5458	3
Percentage of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	41.13	26.35	51.43	39.65	66.67
	>5	53.78	42.51	46.86	52.18	33.33
	Pregnant women	5.09	31.14	1.71	8.17	0.00
	Total	100	100	100	100	100

Table. 6 Total number of malaria cases reported by the Western Region from April to June 2009

Number of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	13428	1199	201	14828	2
	>5	24076	3532	316	27924	2
	Pregnant women	714	158	35	907	1
	Total	38218	4889	552	43659	5
Percentage of cases	Classifications	Uncomplicated malaria	lab confirmed malaria	Severe malaria	Total	Death
	≤ 5	35.14	24.52	36.41	33.96	40
	>5	63.00	72.24	57.25	63.96	40
	Pregnant women	1.87	3.23	6.34	2.08	20
	Total	100	100	100	100	100

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Table. 7 Total number of sexually transmitted infection cases reported by the Upper River Region from April to June 2009

URR	TOTAL CASES	INPATIENT CASES	INPATIENT DEATHS	%
MALE URETHRAL DISCHARGE	143	0	0	10.11
FEMALE VAGINAL DISCHARGE	436	1	0	30.81
MALE GENITAL ULCER	98	0	0	6.93
FEMALE GENITAL ULCER	138	0	0	9.75
LOWER ABDOMINAL PAIN IN PREG. WOMEN	497	7	0	35.12
LOWER ABD. PAIN IN NON PREG. WOMEN	102	13	1	7.21
NEW HIV CASES	1	0	0	0.07
TOTAL	1415	21	1	100

Table. 8 Total number of sexually transmitted infection cases reported by the Lower River Region from April to June 2009

LRR	TOTAL CASES	INPATIENT CASES	INPATIENT DEATHS	%
MALE URETHRAL DISCHARGE	98	0	0	15.05
FEMALE VAGINAL DISCHARGE	224	14	0	34.41
MALE GENITAL ULCER	12	0	0	1.84
FEMALE GENITAL ULCER	27	0	0	4.15
LOWER ABDOMINAL PAIN IN PREG. WOMEN	281	5	0	43.16
LOWER ABD. PAIN IN NON PREG. WOMEN	0	5	0	0.00
NEW HIV CASES	9	0	0	1.38
TOTAL	651	24	0	100

Table. 9 Total number of sexually transmitted infection cases reported by the Central River Region from April to June 2009

CRR	TOTAL CASES	INPATIENT CASES	INPATIENT DEATHS	%
MALE URETHRAL DISCHARGE	96	0	0	11.19
FEMALE VAGINAL DISCHARGE	270	0	0	31.47
MALE GENITAL ULCER	24	0	0	2.80
FEMALE GENITAL ULCER	41	1	0	4.78
LOWER ABDOMINAL PAIN IN PREG. WOMEN	298	3	0	34.73
LOWER ABD. PAIN IN NON PREG. WOMEN	99	0	0	11.54
NEW HIV CASES	30	1	0	3.50
TOTAL	858	5	0	100

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Table. 10 Total number of sexually transmitted infection cases reported by the North Bank East Region from April to June 2009

NBER	TOTAL CASES	INPATIENT CASES	INPATIENT DEATHS	%
MALE URETHRAL DISCHARGE	26	0	0	3.77
FEMALE VAGINAL DISCHARGE	207	5	0	30.00
MALE GENITAL ULCER	27	0	0	3.91
FEMALE GENITAL ULCER	46	0	0	6.67
LOWER ABDOMINAL PAIN IN PREG. WOMEN	346	6	1	50.14
LOWER ABD. PAIN IN NON PREG. WOMEN	32	1	0	4.64
NEW HIV CASES	6	0	0	0.87
TOTAL	690	12	1	100

Table. 11 Total number of sexually transmitted infection cases reported by the North Bank West Region from April to June 2009

NBWR	TOTAL CASES	INPATIENT CASES	INPATIENT DEATHS	%
MALE URETHRAL DISCHARGE	32	0	0	4.32
FEMALE VAGINAL DISCHARGE	153	0	0	20.68
MALE GENITAL ULCER	7	0	0	0.95
FEMALE GENITAL ULCER	22	0	0	2.97
LOWER ABDOMINAL PAIN IN PREG. WOMEN	267	0	0	36.08
LOWER ABD. PAIN IN NON PREG. WOMEN	253	2	0	34.19
NEW HIV CASES	6	0	0	0.81
TOTAL	740	2	0	100

Table. 12 Total number of sexually transmitted infection cases reported by the Western Region from April to June 2009

WESTERN REGION	TOTAL CASES	INPATIENT CASES	INPATIENT DEATHS	%
MALE URETHRAL DISCHARGE	528	0	0	15.99
FEMALE VAGINAL DISCHARGE	1581	26	0	47.88
MALE GENITAL ULCER	65	1	0	1.97
FEMALE GENITAL ULCER	209	0	0	6.33
LOWER ABDOMINAL PAIN IN PREG. WOMEN	222	5	0	6.72
LOWER ABD. PAIN IN NON PREG. WOMEN	622	13	0	18.84
NEW HIV CASES	75	4	0	2.27
TOTAL	3302	49	0	100

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Table. 13 Total number of Out Patient Clinic Attendance reported by the Health Facilities from April to June 2009

OUT PATIENT CLINIC ATTENDANCE	WESTERN REGION	NBWR	NBER	LRR	CRR	URR
UNDER 5 YEARS OF AGE	29734	5044	13128	3780	9602	13763
5 TO 14 YEARS OF AGE	24437	4120	3192	2447	4661	4957
OVER 14 YEARS OF AGE	48711	7672	11062	5357	9974	15819
TOTAL OUTPATIENT ATTENDANCE	102882	16836	27382	11584	24237	34539

Table. 14 Total number of Infant Welfare Clinics Attendance reported by the Health Facilities from April to June 2009

INFANT WELFARE CLINICS ATTENDANCE	WESTERN REGION.	NBWR	NBER	LRR	CRR	URR
NEW ATTENDANCES UNDER 1 YEAR OF AGE	6741	783	549	611	1571	1479
ALL OTHER ATTENDANCES	68689	12397	14173	10296	17902	23770
TOTAL INFANT WELFARE CLINIC ATTENDANCE	75430	13180	14722	10907	19473	25249

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Table. 15 Total number of Ante Natal Clinic Attendance reported by the Health Facilities from April to June 2009

ANTE NATAL CLINIC ATTENDANCE	WESTERN REGION	NBWR	NBER	LRR	CRR	URR
FIRST ATTENDANCE 15 YRS. OF AGE OR UNDER	512	4	1	4	104	10
FIRST ATTENDANCE OVER 15 YEARS OF AGE	8329	1263	1309	983	2744	3173
TOTAL FIRST ATTENDANCE	8841	1267	1310	987	2848	3183
ALL OTHER ATTENDANCES	18906	3362	2088	1436	6780	6279
TOTAL ANTENATL CLINIC ATTENDANCE	27747	4629	3398	2423	9628	9462

Table. 16 Total number of Clinics scheduled and held reported by the health facilities from April to June 2009

CLINICS SCHEDULED	WESTERN REGION	NBWR	NBER	LRR	CRR	URR
TOTAL CLINICS SCHEDULED	<b>708</b>	156	119	120	324	235
CLINICS HELD	<b>708</b>	156	119	118	342	231
CLINICS CANCELLED	<b>0</b>	0	0	2	0	4
BECAUSE OF HOLIDAY	<b>0</b>	0	0	0	0	4
BECAUSE OF VEHICLE AVAILABILITY	<b>0</b>	0	0	0	0	0
BECAUSE OF FUEL AVAILABILITY	<b>0</b>	0	0	0	0	0
BECAUSE OF HUMAN RESOURCE	<b>0</b>	0	0	0	0	0