

Real time hospital beds data in hand Hospital Bed Management Dashboard



APeHRC 2016



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Overview

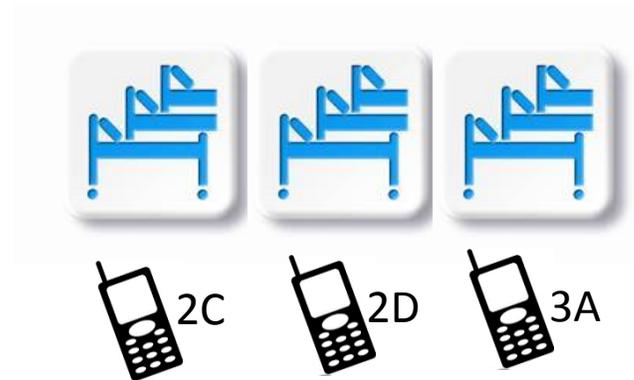
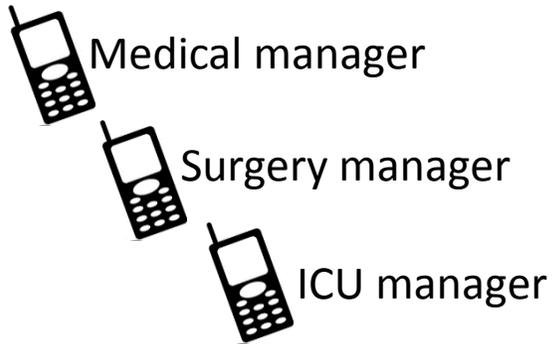
Current situation in hospitals

Dashboard the solution

Conclusion



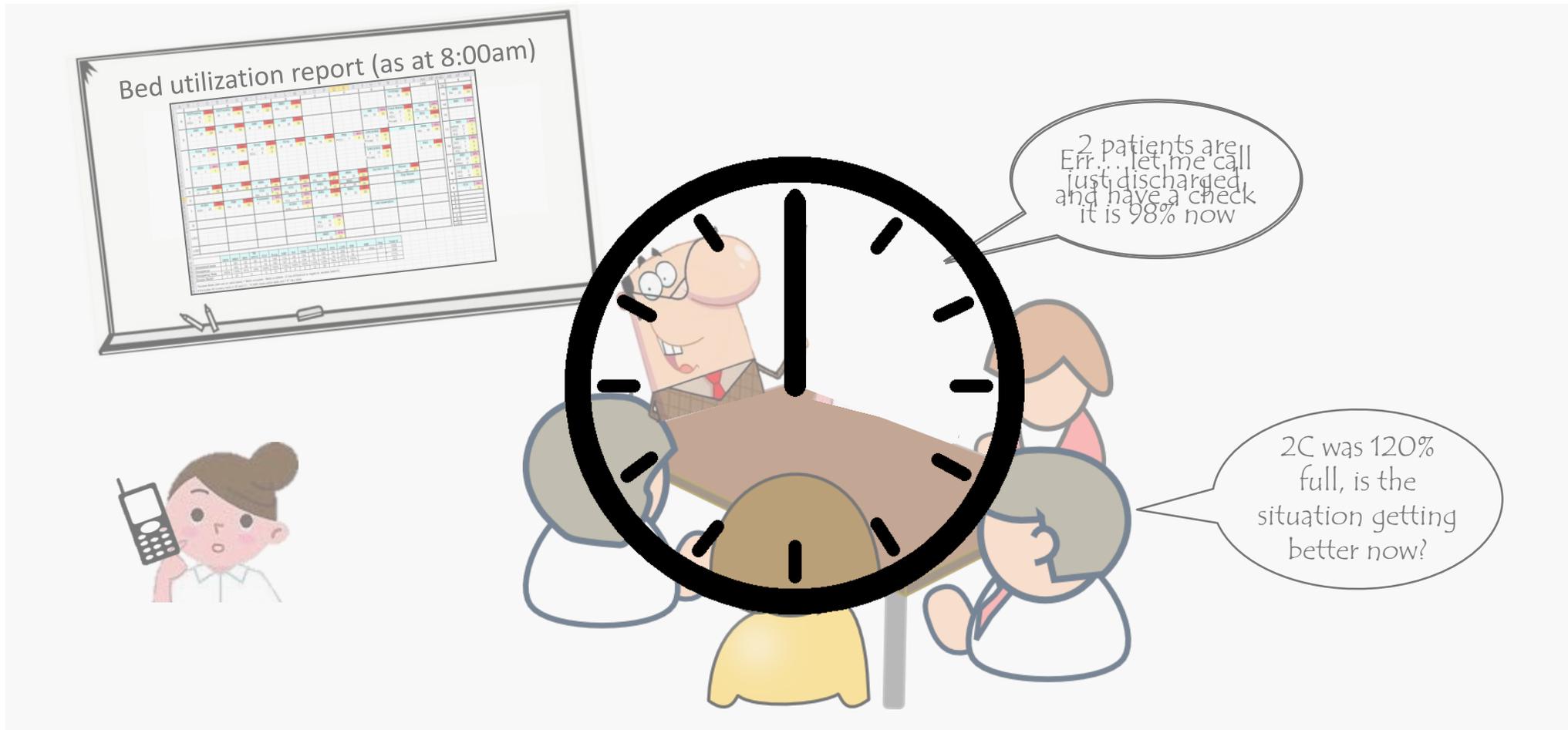
- Amy
- General nursing manager
- Orange Hospital
- Need to know the full picture of hospital beds occupancy



- Gordon
- Medical wards manager
- Orange Hospital
- In charge of all medical wards

Daily meeting with senior management

09:00



Not real
time

Manual

Accessible
in office
only



42
Hospitals

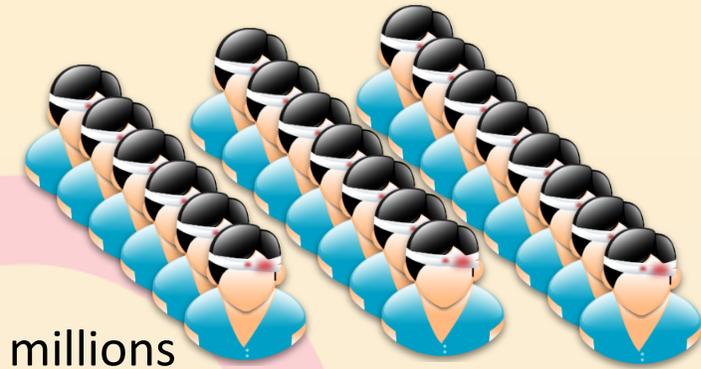
16
Acute hospitals


27,645
Inpatient beds

19
Clinical specialties

- Medicine
- ICU
- Orthopedics
- Surgery
- Obstetric & Paediatrics gynecology
- Cardiothoracic surgery
- Oncology

1.1 millions
IP discharges & deaths



571 thousands
DP discharges & deaths

2.2 millions
AE attendances

EMERGENCY

85.1 %
Inpatient bed occupancy rate



Governance

**Bed Management System
Working Group**

Prioritize ruthlessly
(first things first)

Embrace your Informaticians
(and feed them well)



The customer is always right
(well, almost)

Medical is an art and a science
(and so is medical informatics)



Seven principles for health informatics success

Source:
Cheung NT, Fung V, et al. Principles-based medical informatics for success: How Hong Kong built one of the world's largest integrated longitudinal electronic patient records. Presented at Medinfo 2007, Brisbane, Australia;307-10.

42 Hospitals
16 Acute hospitals

27,645 Inpatient beds

1.1 millions Discharges & deaths

571 thousands DP discharges & deaths

19 Clinical specialties
2.2 millions attendances

- Medicine
- ICU
- Orthopedics
- Surgery
- Obstetric & Paediatrics gynecology
- Cardiothoracic surgery
- Oncology

EMERGENCY

85.1% Inpatient bed occupancy rate

Real-Time 1 Overflow Bed Summary

Status as at 26-May-2015 / 10:43:04

Dept.	Type	Ward	Official Bed	Occupancy Rate	Overflow
MED	Male				
	MED Male Sub-Total		53		
	Mixed	E10	59	42%	
		E3	20	121%	
		E4	28		
		E4H	4		
		E4HD	0	0	6
		N3	54	100%	0
		N3HD	2	0	2
		N4	33	9	
		YCK4	33	4	
	MED Mixed Sub-Total		233		33
SUR	Female	E11S	12	3	
		N11S	9	4	

View Isolation Beds Print this page

Total MED (TMH)		As At 00:00		Discharge (9:00am of previous day - 9:00am)		View History		
1	A	E	F	G	H	I	J	
2	Total MED (TMH)		Female		Total(80)		C9(40M)	
3	As At 00:00		Patient		Excess (Empty Bed)		Patient	
4	P & OP		0(40)F		C10(40)F		A10(40M)	
5	2015	Total	4	87	2	55	15	55
6	74	100	4	81	1	50	10	50
7	75	110	5	82	2	56	16	44
8	76	120	6	83	3	47	4	46
9	77	130	7	84	4	48	9	45
10	78	140	8	85	5	49	14	44
11	79	150	9	86	6	50	19	43
12	80	160	10	87	7	51	24	42
13	81	170	11	88	8	52	29	41
14	82	180	12	89	9	53	34	40
15	83	190	13	90	10	54	39	39
16	84	200	14	91	11	55	44	38
17	85	210	15	92	12	56	49	37
18	86	220	16	93	13	57	54	36
19	87	230	17	94	14	58	59	35
20	88	240	18	95	15	59	64	34
21	89	250	19	96	16	60	69	33
22	90	260	20	97	17	61	74	32
23	91	270	21	98	18	62	79	31
24	92	280	22	99	19	63	84	30
25	93	290	23	100	20	64	89	29
26	94	300	24	101	21	65	94	28
27	95	310	25	102	22	66	99	27
28	96	320	26	103	23	67	104	26
29	97	330	27	104	24	68	109	25
30	98	340	28	105	25	69	114	24
31	99	350	29	106	26	70	119	23
32	100	360	30	107	27	71	124	22
33	101	370	31	108	28	72	129	21
34	102	380	32	109	29	73	134	20
35	103	390	33	110	30	74	139	19
36	104	400	34	111	31	75	144	18
37	105	410	35	112	32	76	149	17
38	106	420	36	113	33	77	154	16
39	107	430	37	114	34	78	159	15
40	108	440	38	115	35	79	164	14
41	109	450	39	116	36	80	169	13
42	110	460	40	117	37	81	174	12
43	111	470	41	118	38	82	179	11
44	112	480	42	119	39	83	184	10
45	113	490	43	120	40	84	189	9
46	114	500	44	121	41	85	194	8
47	115	510	45	122	42	86	199	7
48	116	520	46	123	43	87	204	6
49	117	530	47	124	44	88	209	5
50	118	540	48	125	45	89	214	4
51	119	550	49	126	46	90	219	3
52	120	560	50	127	47	91	224	2
53	121	570	51	128	48	92	229	1
54	122	580	52	129	49	93	234	0
55	123	590	53	130	50	94	239	0
56	124	600	54	131	51	95	244	0
57	125	610	55	132	52	96	249	0
58	126	620	56	133	53	97	254	0
59	127	630	57	134	54	98	259	0
60	128	640	58	135	55	99	264	0
61	129	650	59	136	56	100	269	0
62	130	660	60	137	57	101	274	0
63	131	670	61	138	58	102	279	0
64	132	680	62	139	59	103	284	0
65	133	690	63	140	60	104	289	0
66	134	700	64	141	61	105	294	0
67	135	710	65	142	62	106	299	0
68	136	720	66	143	63	107	304	0
69	137	730	67	144	64	108	309	0
70	138	740	68	145	65	109	314	0
71	139	750	69	146	66	110	319	0
72	140	760	70	147	67	111	324	0
73	141	770	71	148	68	112	329	0
74	142	780	72	149	69	113	334	0
75	143	790	73	150	70	114	339	0
76	144	800	74	151	71	115	344	0
77	145	810	75	152	72	116	349	0
78	146	820	76	153	73	117	354	0
79	147	830	77	154	74	118	359	0
80	148	840	78	155	75	119	364	0
81	149	850	79	156	76	120	369	0
82	150	860	80	157	77	121	374	0
83	151	870	81	158	78	122	379	0
84	152	880	82	159	79	123	384	0
85	153	890	83	160	80	124	389	0
86	154	900	84	161	81	125	394	0
87	155	910	85	162	82	126	399	0
88	156	920	86	163	83	127	404	0
89	157	930	87	164	84	128	409	0
90	158	940	88	165	85	129	414	0
91	159	950	89	166	86	130	419	0
92	160	960	90	167	87	131	424	0
93	161	970	91	168	88	132	429	0
94	162	980	92	169	89	133	434	0
95	163	990	93	170	90	134	439	0
96	164	1000	94	171	91	135	444	0
97	165	1010	95	172	92	136	449	0
98	166	1020	96	173	93	137	454	0
99	167	1030	97	174	94	138	459	0
100	168	1040	98	175	95	139	464	0

Hospital Daily Bed Utilization Report
Date: 28/05/2015 (Thu) Hours 23:59
No. of Vacant Bed: 67

Ward	Specialty	Official BDA	Occupancy Rate	Vacant Beds Available	Mix Sex Ward BDA	Occupancy Rate	Vacant Beds Available
4EF	GER/BEH	10	75%	3	10	75%	3
4EF	MUS/BEH	10	100%	0	10	100%	0
4EF	NEUR/BEH	10	100%	0	10	100%	0
4EF	PUL/BEH	10	100%	0	10	100%	0
4EF	M&G	10	100%	0	10	100%	0
4EF	SUR	10	100%	0	10	100%	0
4EF	ORT	10	100%	0	10	100%	0
4EF	NEU	10	100%	0	10	100%	0
4EF	M&G	10	100%	0	10	100%	0
4EF	SUR	10	100%	0	10	100%	0
4EF	Sub-Total	100	74%	26	100	74%	26

*Bed Situation 01/06/2016 09:00

Hosp UCH	EIS Specialty	Total IP Official Bed	Total No. of Patient	Overall Occupancy Rate
M&G		468	462	120%
SUR		197	220	112%
O&G		112	98	88%
ORT		163	173	106%
Red		113	111	98%
Sub-Total		1053	1164	111%

31/05/2016 Admission & Discharge (00:00 - 23:59)

Admission Data				Discharge Data			
AE Admissions	Elective Admissions (Inpatient only)	Elective Admissions per Total IP Admissions (%)	Transfer Out to other hospitals	Discharge (Inpatient only, excluding deaths)	Transfer Out per Total IP	Death (Inpatient only)	Transfer Out per Total IP
24	28	17%	20	20	0	0	0
14	18	43%	0	0	0	0	0
24	13	11%	1	0	0	0	0
14	74	48%	0	0	0	0	0
Sub-Total	74	30%	21	21	0	0	0

Total AE attendance : 485

Total no. of livebirths : 12

Total AE attendance : 360

Ward	Code	Official bed	Occupied	Vacant	Total	Occupancy Rate
2B		26	26	8	34	100%
8B		24	24	10	34	100%
DSC		2	2	2	4	100%
11A		48	48	2	50	100%
11B		46	46	4	50	100%
12A		45	45	5	50	100%
12B		15	15	5	20	100%
13A		43	43	7	50	100%
13B		47	47	3	50	100%
2A		23	23	1	24	100%
5C		56	56	4	60	100%
5D		57	57	3	60	100%
5E		25	25	1	26	100%
CCU		3	3	1	4	100%
HDU		1	1	3	4	100%
ICU		5	5	5	10	100%
PCD		2	2	4	6	100%
RENA		6	6	1	7	100%
10AG		0	0	7	7	100%
10A		27	27	1	28	100%



Hospital Bed Management Dashboard



Report status as at : 21-06-2016 / 10:39:52

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A. Hospital Total

Hospital

Group by Ward Location Department

[Submit](#) [Reset](#)

OH 20/06/2016 08:00 - 21/06/2016 07:59 (Retrieved at : 21-06-2016 10:39)						
AE Attendance	Admission			Discharge		
	Elective	Emergency	Total	Discharge (excl'd death)	Other hospital	Death
548	245	203	448	411	27	7

OH 21/06/2016 08:00 - 21/06/2016 10:39 (Retrieved at : 21-06-2016 10:39)						
AE Attendance	Admission			Discharge		
	Elective	Emergency	Total	Discharge (excl'd death)	Other hospital	Death
79	84	13	97	7	1	2

B. The following 'by-ward analyses' are confined only to wards with IP beds (i.e. excluding wards with day beds only)

[\[+\] Expand All](#) [\[-\] Collapse All](#)

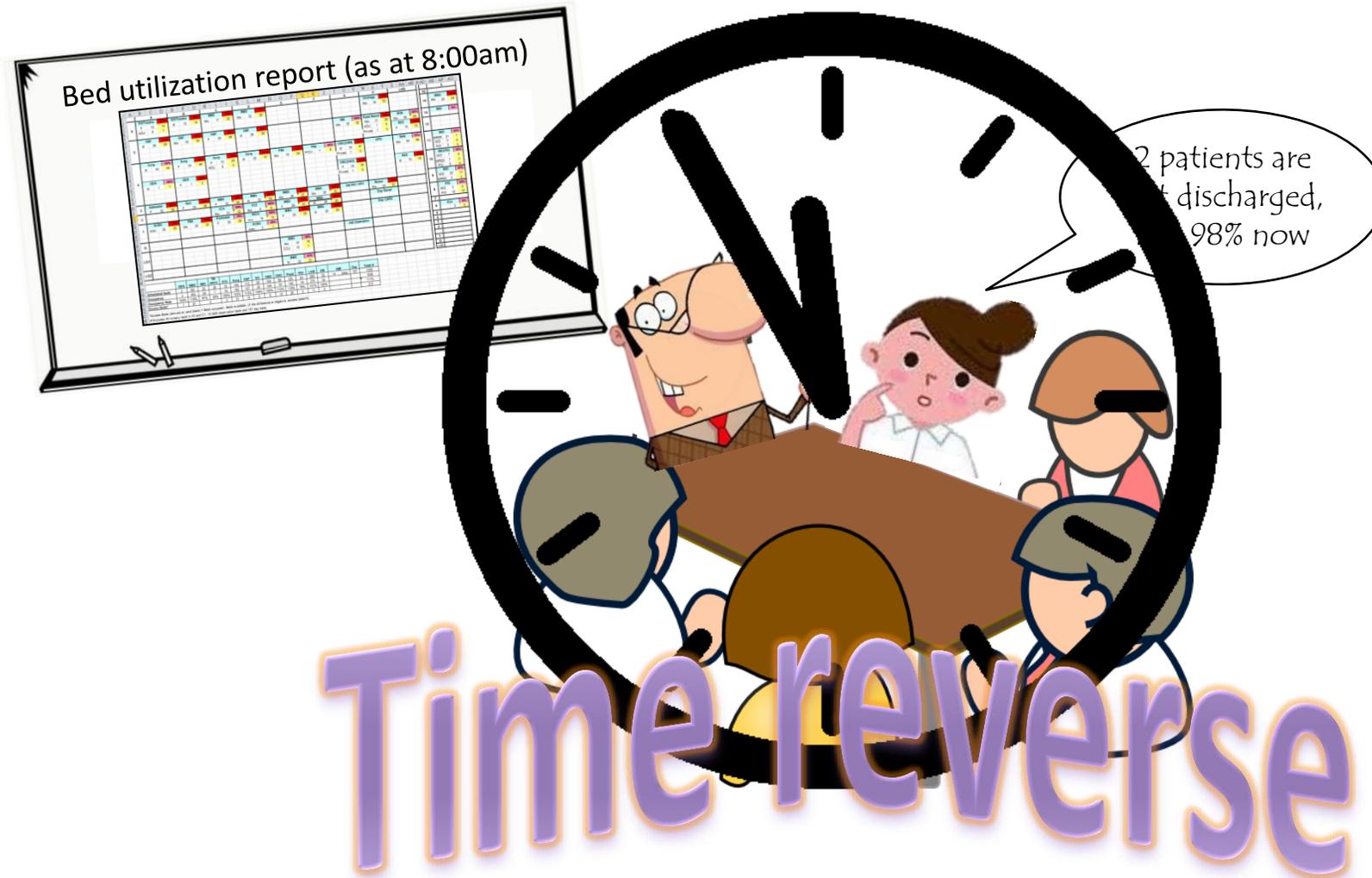
MED	SUR	O&G	PAED	O&T	ICU					
Ward Location	Ward Code	Sex	Specialty	No. of patients (a)	Scheduled IP Beds (b)	Patient to IP Bed Ratio (a)/(b)	Scheduled day beds (c)	Patient to Total Bed Ratio (a)/[(b)+(c)]	Overflow	
7B	7B	Female	SUR	37	46		0		MED	
		Female	Others	4					4 + 0	
		7B Female Sub Total		41	46				0	
		7B Total (Ward Location)		41	46				89%	0
8A	8A	Mixed	SUR	45	45		0		MED	
		Mixed	Others	1					1 + 0	
		8A Mixed Sub Total		46	45					0
		8A Total (Ward Location)		46	45				102%	0

Daily meeting with senior management

09:00

DEC
21

Winter surge

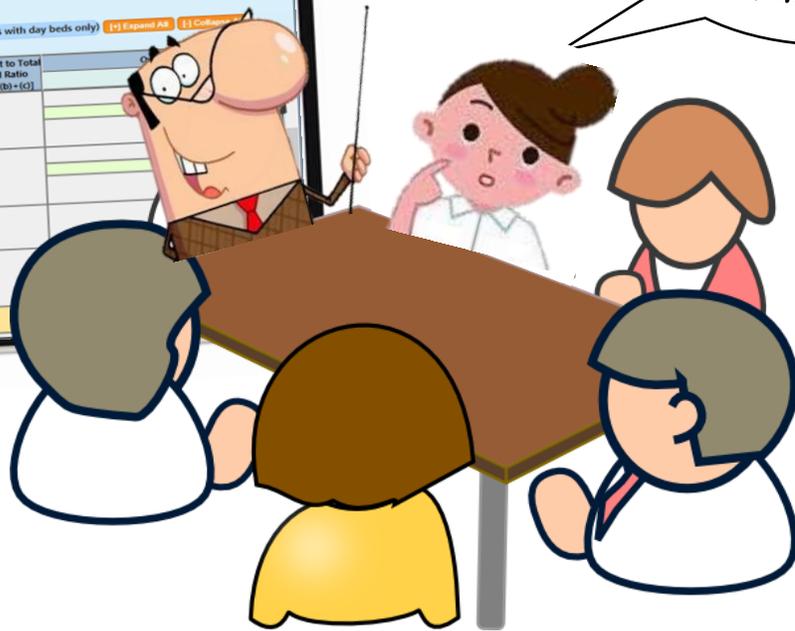
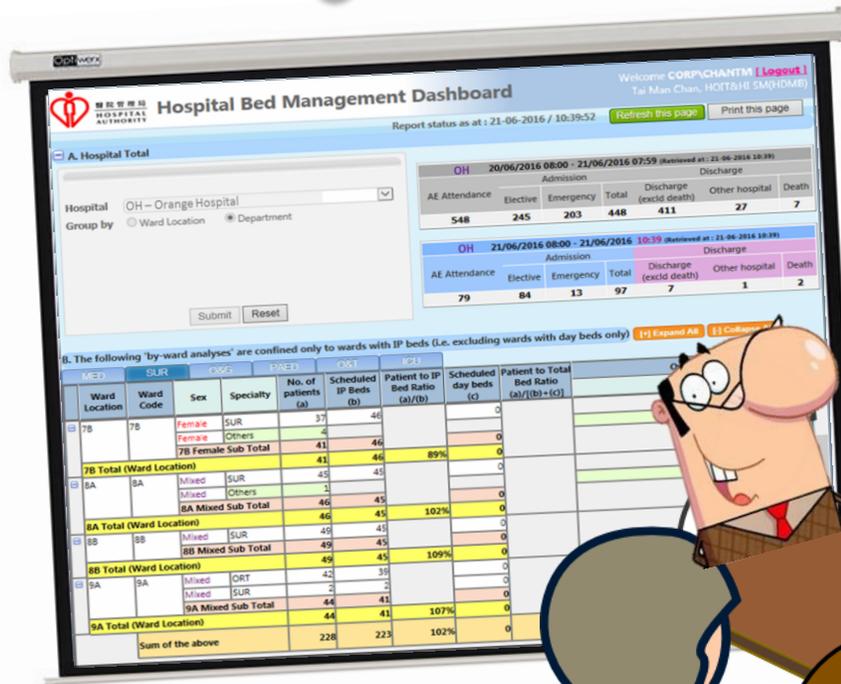


Daily meeting with senior management

09:00

DEC
21

Winter surge

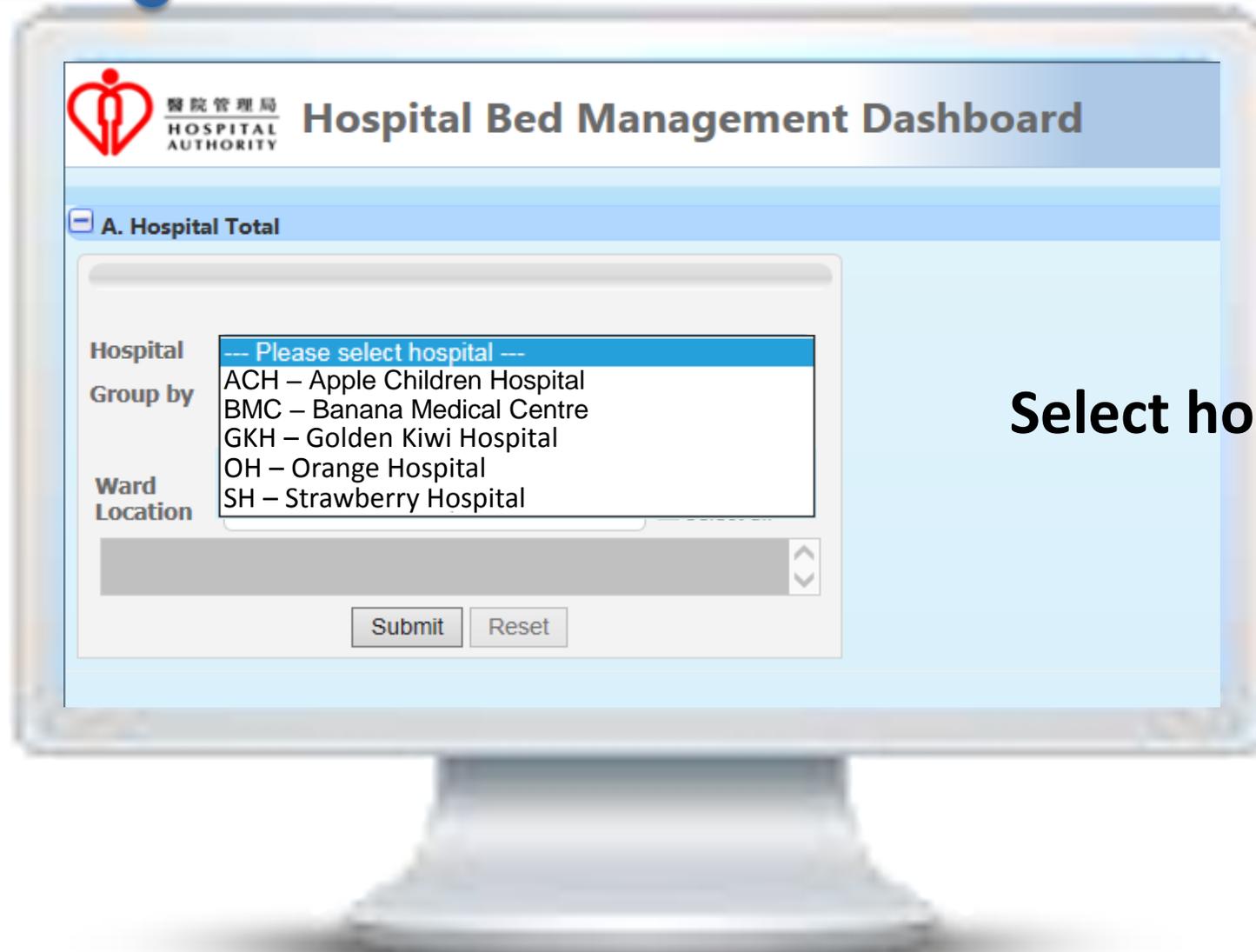


Let's check the real time Dashboard

How's the situation of 2C?

Daily meeting with senior management

09:00



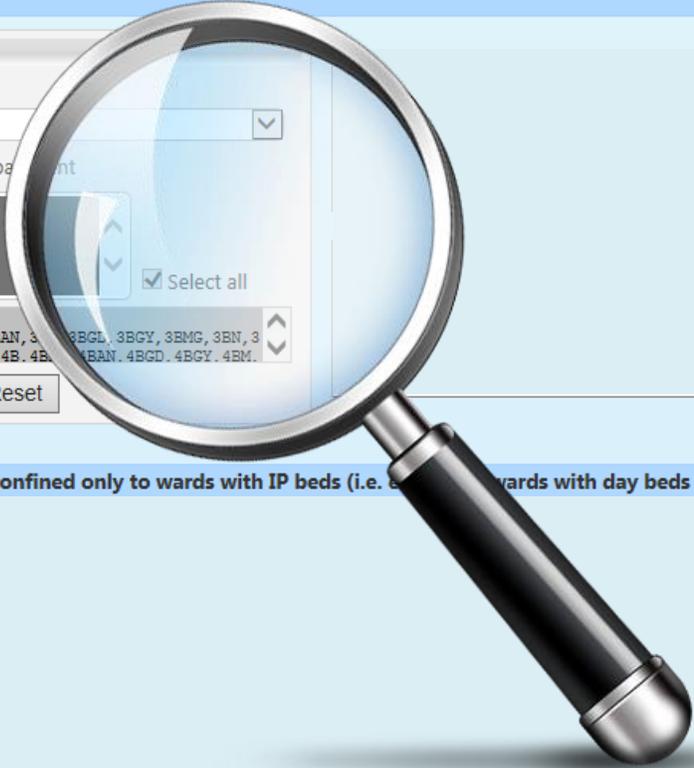
Select hospital

Report status as at : 27-06-2016 / 15:06:38

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A. Hospital Total



Hospital: OH – Orange Hospital

Group by: Ward Location Department

Ward Location: 1A, 2A, 2B, 2C, 3A, 3APB, 3API, 3B, 3BAD, 3BAN, 3BGL, 3BGY, 3BMG, 3BN, 3BP, 3BPH, 3BPI, 3C, 3CA, 3CR, 3D, 3E, 4A, 4AOB, 4B, 4BGL, 4BGL, 4BGY, 4EM.

Select all

B. The following 'by-ward analyses' are confined only to wards with IP beds (i.e. wards with day beds only)

[\[+\] Expand All](#)

[\[-\] Collapse All](#)

Part I Hospital Total

Part II Bed Summary Table

Report status as at : 27-06-2016 / 15:06:38

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A. Hospital Total

Hospital:

Group by: Ward Location Department

Ward Location:

Select all

Select All:
1A, 2A, 2B, 2C, 2D, 3A, 3APB, 3API, 3B, 3BAD, 3BAN, 3BC, 3BGD, 3BGY, 3BMG, 3BN, 3BP, 3BPH, 3BPI, 3C, 3CA, 3CR, 3D, 3E, 4A, 4A0B, 4B, 4BAD, 4BAN, 4BGD, 4BGY, 4BM.

OH 26/06/2016 08:00 - 27/06/2016 07:59 (Retrieved at : 27-06-2016 15:06)						
AE Attendance	Admission			Discharge		
	Elective	Emergency	Total	Discharge (excl death)	Other hospital	Death
431	117	120	237	137	3	10

OH 27/06/2016 08:00 - 27/06/2016 15:06 (Retrieved at : 27-06-2016 15:06)						
AE Attendance	Admission			Discharge		
	Elective	Emergency	Total	Discharge (excl death)	Other hospital	Death
217	176	40	216	217	26	2

B. The following 'by-ward analyses' are confined only to wards with IP beds (i.e. excluding wards with day beds only)

[\[+\] Expand All](#)

[\[-\] Collapse All](#)

Ward Location	Ward Code	Sex	Specialty	No. of patients (a)	Scheduled IP Beds (b)	Patient to IP Bed Ratio (a)/(b)	Scheduled day beds (c)	Patient to Total Bed Ratio (a)/[(b)+(c)]	Overflow						
									ENT	GYN	MED	OPH	ORT	SUR	
2C	2CG	Mixed	MED	20	20		0								
		2CG Mixed Sub Total		26	20		0								
	2CS	Mixed	MED	19	20		0								
		2CS Mixed Sub Total		19	20		0								
2C Total (Ward Location)				35	40	88%									
2D	2DH	Mixed	HSP	15	15		0								
		2DH Mixed Sub Total		15	15		0								
	2DR	Mixed	REH	30	30		0								
		2DR Mixed Sub Total		30	30		0								
2D Total (Ward Location)				45	45	100%									
3A	NICU	Mixed	NEO	14	10		0								
		NICU Mixed Sub Total		14	10		0								
	SCBU	Mixed	NEO	45	35		0								
		SCBU Mixed Sub Total		45	35		0								
3A Total (Ward Location)				59	45	131%	0								

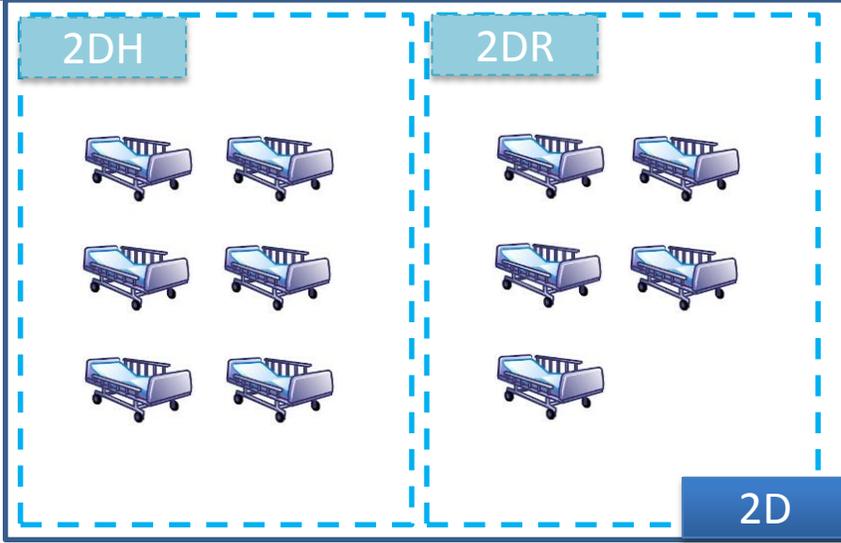
Part II Bed Summary Table

B. The following 'by-ward analyses' are confined only to wards with IP beds (i.e. excluding wards with day beds only) [+] Expand All [-] Collapse All

Ward Location	Ward Code	Sex	Specialty	No. of patients (a)	Scheduled IP Beds (b)	Patient to IP Bed Ratio (a)/(b)	Scheduled day beds (c)	Patient to Total Bed Ratio (a)/[(b)+(c)]	Overflow					
									ENT	GYN	MED	OPH	ORT	SUR
2C	2CG	Mixed	MED	16	20		0							
		2CG Mixed Sub Total		16	20		0							
	2CS	Mixed	MED	19	20		0							
		2CS Mixed Sub Total		19	20		0							
	2C Total (Ward Location)				35	40	88%	0						
2D	2DH	Mixed	HSP	15	15		0							
		2DH Mixed Sub Total		15	15		0							
	2DR	Mixed	REH	30	30		0							
		2DR Mixed Sub Total		30	30		0							
	2D Total (Ward Location)				45	45	100%	0						
3A	NICU	Mixed	NEO	14	10		0							
		NICU Mixed Sub Total		14	10		0							
	SCBU	Mixed	NEO	45	35		0							
		SCBU Mixed Sub Total		45	35		0							
	3A Total (Ward Location)				59	45	131%	0						

Subtotal
(by ward code)

Total
(by ward location)



2D Ward location
2DH Ward code

Ward location
A group of hospital beds for patient care under the same physical location, usually under the same nursing team management



Patient admission

09:00

11:00

Too bad, long queue for admission. Better call ward managers to discharge patients



B. The following 'by ward analyses' are confined only to wards with IP beds (i.e. excluding wards with day beds only) [+] Expand All [-] Collapse All

	Ward Location	Ward Code	Sex	Specialty	No. of patients (a)	Scheduled IP Beds (b)	Patient to IP Bed Ratio (a)/(b)	Scheduled day beds (c)	Patient to Total Bed Ratio (a)/[(b)+(c)]	Overflow					
										ENT	GYN	MED	OPH	ORT	SUR
<input type="checkbox"/>	6B	6B	Mixed	MED	52	40		0							
			6B Mixed	Sub Total	52	40		0							
	6B Total (Ward Location)				52	40	130%	0							
<input type="checkbox"/>	7A	7A	Male	SUR	39	46		0							
			7A Male	Sub Total	39	46		0							
	7A Total (Ward Location)				39	46	85%	0							
<input type="checkbox"/>	7B	7B	Female	SUR	32	46		0							
			Female	Others	3						3 + 0				
			7B Female	Sub Total	35	46		0							
	7B Total (Ward Location)				35	46	76%	0							
<input type="checkbox"/>	8A	8A	Mixed	SUR	42	45		0						3 + 1	
			Mixed	Others	4						3 + 1				
			8A Mixed	Sub Total	46	45		0							
	8A Total (Ward Location)				46	45	102%	0							



Waiting for admission

Sex

- Male
- Female
- Mixed: Male & Female



B. The following 'by-ward analyses' are confined only to wards with IP beds (i.e. excluding wards with day beds only) [+] Expand All [-] Collapse All

Ward Location	Ward Code	Sex	Specialty	No. of patients (a)	Scheduled IP Beds (b)	Patient to IP Bed Ratio (a)/(b)	Scheduled day beds (c)	Patient to Total Bed Ratio (a)/[(b)+(c)]	Overflow									
									ENT	GYN	MED	OPH	ORT	SUR				
6B	6B	Mixed	MED	52	40		0											
		6B Mixed Sub Total		52	40		0											
		6B Total (Ward Location)				52	40	130%	0									
7A	7A	Male	SUR	39	46		0											
		7A Male Sub Total		39	46		0											
		7A Total (Ward Location)				39	46	85%	0									
7B	7B	Female	SUR	32	46		0											
		Female	Others	3														
		7B Female Sub Total		35	46		0											
		7B Total (Ward Location)				35	46	76%	0									
8A	8A	Mixed	SUR	42	45		0											
		Mixed	Others	4														
		8A Mixed Sub Total		46	45		0											
		8A Total (Ward Location)				46	45	102%	0									

Overflow specialties

3 + 0

3 + 1



B. The following 'by-ward analyses' are confined only to wards with IP beds (i.e. excluding wards with day beds only) [+] Expand All [-] Collapse All

Ward Location	Ward Code	Sex	Specialty	No. of patients (a)	Scheduled IP Beds (b)	Patient to IP Bed Ratio (a)/(b)	Scheduled day beds (c)	Patient to Total Bed Ratio (a)/[(b)+(c)]	Overflow								
									ENT	GYN	MED	OPH	ORT	SUR			
6B	6B	Mixed	MED	52	40		0										
		6B Mixed Sub Total		52	40		0										
		6B Total (Ward Location)		52	40	130%	0										
7A	7A	Male	SUR	39	46		0										
		7A Male Sub Total		39	46		0										
		7A Total (Ward Location)		39	46	85%	0										
7B	7B	Female	SUR	32	46		0										
		Female	Others	3					3 + 0								
		7B Female Sub Total		35	46		0										
7B Total (Ward Location)		35	46	76%	0												
8A	8A	Mixed	SUR	42	45		0										
		Mixed	Others	4									3 + 1				
		8A Mixed Sub Total		46	45		0										
8A Total (Ward Location)		46	45	102%	0												
Sum of the above				1133	1218	93%	83	87%	0 + 1	14 + 9	0 + 2	3 + 2	0 + 3				
										34							

No worries, the overall ratio looks not too bad (93%)

So many overflow?!





Hospital Bed Management Dashboard

Welcome CORP\CHANTM [Logout]
Tai Man Chan, HOIT&HI SM(HDMB)

Report status as at : 27-06-2016 / 15:06:38

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A. Hospital Total

Hospital:

Group by: Ward Location Department

Ward Location:

Select all

Select All:
1A, 2A, 2B, 2C, 2D, 3A, 3APB, 3API, 3B, 3BAD, 3BAN, 3C, 3BGD, 3BGY, 3BMG, 3BN, 3BP, 3BPH, 3BPI, 3C, 3CA, 3CR, 3D, 3E, 4A, 4AQB, 4B, 4BAD, 4BAN, 4BGD, 4BGY, 4BM.

UCH 26/06/2016 08:00 - 27/06/2016 07:59 (Retrieved at : 27-06-2016 15:06)

AE Attendance	Admission			Discharge		
	Elective	Emergency	Total	Discharge (excl'd death)	Other hospital	Death
431	117	120	237	137	3	10

UCH 27/06/2016 08:00 - 27/06/2016 15:06 (Retrieved at : 27-06-2016 15:06)

AE Attendance	Admission			Discharge		
	Elective	Emergency	Total	Discharge (excl'd death)	Other hospital	Death
217	176	40	216	217	26	2

B. The following 'by-ward analyses' are confined only to wards with IP beds (i.e. excluding wards with day beds only)

[\[+\] Expand All](#)

[\[-\] Collapse All](#)

		MED	SUR	O&G	PAED	O&T	ICU	Schedul		Patient to Total		Overflow								
								day beds	Bed Ratio	(a)/[(b)+(c)]		CTS	EM	GYN	MED	NS	ONC	ORT	SUR	
								0												
		A5 Female Sub Total						48	39	123%										
		A5 Total (Ward Location)						48	39	123%										
		A6 Female Sub Total						44	39	113%										
		A6 Total (Ward Location)						44	39	113%										
		A8 Female Sub Total						46	36	117%										
		A8 Total (Ward Location)						46	36	117%										

I'm only interested in Medical wards



During ward supervision



09:00

11:00

12:00

14:00

What's the bed utilization now?

Hospital Bed Management Dashboard

Report status as at: 21-06-2016 / 10:39:52

OH - Orange Hospital

OH 20/06/2016 08:00 - 21/06/2016 07:59						
Admission						
AE Attendance	Discharge					
Elective	Emergency	Total	Discharge (exact death)	Other hospital	Death	
548	245	203	448	411	27	7

OH 21/06/2016 08:00 - 21/06/2016 10:39						
Admission						
AE Attendance	Discharge					
Elective	Emergency	Total	Discharge (exact death)	Other hospital	Death	
79	84	13	92	7	1	2

Ward Location	Ward Code	Sex	Specialty	No. of patients (a)	Scheduled IP Beds (b)	Patient to IP Bed Ratio (a)/(b)	Scheduled day beds (c)	Patient to Total Bed Ratio (a)/(b+c)	Overflow
7B	7B	Female	Sur	37	46	0	0	0	
		Female	Others	4	46	0	0	0	4 + 0
7B Total (Ward Location)				41	46	89%	0		
8A	8A	Mixed	Sur	45	45	100%	0	0	
		Mixed	Others	3	45	0	0	0	3 + 0
8A Total (Ward Location)				48	45	107%	0		
8B	8B	Mixed	Sur	49	49	100%	0	0	
		Mixed	Others	0	49	0	0	0	
8B Total (Ward Location)				49	49	100%	0		
9A	9A	Mixed	ORT	42	39	108%	0	0	
		Mixed	Sur	3	39	0	0	0	
		Mixed	Others	0	39	0	0	0	
9A Total (Ward Location)				44	41	107%	0		
Sum of the above				228	223	102%	0	102%	5 + 0

Accessible in any computers in hospital
(with intranet)

09:00

11:00

12:00

14:00

23:00

What's the bed situation now?

The dashboard displays the following data:

OH 20/06/2016 08:00 - 21/06/2016 07:59						
Admission						
AE Attendance	Elective	Emergency	Total	Discharge (excl death)	Other hospital	Death
548	245	203	448	411	27	7

OH 21/06/2016 08:00 - 21/06/2016 10:39						
Admission						
AE Attendance	Elective	Emergency	Total	Discharge (excl death)	Other hospital	Death
79	84	13	97	7	1	2

Ward Location	Ward Code	Sex	Specialty	No. of patients	Scheduled IP Beds (a)	Patient to IP Bed Ratio (a)/(b)	Scheduled day beds (c)	Patient to Total Bed Ratio (a)/(b+c)	Overflow
7B	7B	Female	SUR	37	46		0		
		Female	Others	4	46		0		
		7B Female Sub Total		41	46	89%	0		4 + 0
7B Total (Ward Location)									
8A	8A	Mixed	SUR	43	45		0		
		Mixed	Others	1	45		0		
		8A Mixed Sub Total		46	45		0		1 + 0
8A Total (Ward Location)									
8B	8B	Mixed	SUR	49	45	102%	0		
		Mixed	Others	0	45		0		
		8B Mixed Sub Total		49	45		0		
8B Total (Ward Location)									
9A	9A	Mixed	ERT	41	39		0		
		Mixed	SUR	2	39		0		
		9A Total (Ward Location)		43	39		0		

Accessible with any mobile device (via internet)

Report status as at : 21-06-2016 / 10:39:52

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A. Hospital Total

Hospital

Group by Ward Location Department

OH 20/06/2016 08:00 - 21/06/2016 07:59 (Retrieved at : 21-06-2016 10:39)						
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MED		SUR		O&G		PAED		ORT		ICU		Overflow	
Ward Location	Ward Code	Sex	Specialty	No. of patients (a)	Scheduled IP Beds (b)	Patient to IP Bed Ratio (a)/(b)	Scheduled day beds (c)	Patient to Total Bed Ratio (a)/[(b)+(c)]					
7B	7B	Female	SUR	37	46		0						
		Female	Others	4									
		7B Female Sub Total			41	46		0		4 + 0			
		7B Total (Ward Location)			41	46	89%	0					
8A	8A	Mixed	SUR	45	45		0						
		Mixed	Others	1									
		8A Mixed Sub Total			46	45		0		1 + 0			
8A Total (Ward Location)			46	45	102%	0							
8B	8B	Mixed	SUR	49	45		0						
		8B Mixed Sub Total			49	45		0					
8B Total (Ward Location)			49	45	109%	0							
9A	9A	Mixed	ORT	42	39		0						
		Mixed	SUR	2	2		0						
		9A Mixed Sub Total			44	41		0					
9A Total (Ward Location)			44	41	107%	0							
Sum of the above				228	223	102%	0	102%	5 + 0				
									5				



Hospital management



General nursing manager (Bed manager)



Ward manager

**It relieves me from
keep calling to check
the bed vacancies**

*I can even
check it
at home
with my mobile*

*I can control
which of my
staff can access
the Dashboard!*

*I don't have
to wait for
gam report
anymore*

**Love the
department
grouping!**

*Friendly
design*

Easy to use

Real-time



Challenges

- Various operational practices among hospitals
- Different users different focus





*Hospital Bed
Management
Dashboard*



**FROM individual hospital-based reports
TO a single corporate-based report**

Hospital Bed Management Dashboard

Real-time bed situation

Access anywhere anytime



Thank you!