DUK 3

36

Page 1

From:

Darren Keating

To:

Martin Carter; Toni Hoffman

Date:

25/10/2004 3:58pm

Subject:

ICU RN OT hours

Hi Martin & Toni

As you know RN OT hours in ICU have dramatically increased in the period Jul-Sep 04 and the DM has asked for review of the reasons for such.

As can be seen in the attached sheet (based upon ICU data), there has been an increase in YTD total ICU patients, similar numbers of ventilated patients and significantly increased ventilatory support hours.

Can you provide a breakup of the ventilated patients and their diagnosis admitted to ICU during this period with hours of ventilatory support ?

Is there a trend in age, co-morbidities or major diagnosis?

Your review and analysis would be helpful.

Can you provide this data by COB 1 Nov 04?

Thanks

Darren

CC:

Linda Mulligan; Paddy Martin

From:

Toni Hoffman Darren Keating

To: Date:

1/11/2004 2:18pm

Subject:

ICU stats

Dear Darren.

I broke up all of the ventililated pts into diagnosis, age and co-morbities. Nothing stood out. The main issue was the length of stay; the patients diagnoses seems pretty much the same, although there has been an increase in the ratio of ICU patients to CCU patients, in fact in some months there were more ICU patients than CCU (IT usually ran around 60 % CCU to 40% ICU. The other issue is the number of vents at any one time. Up until about 18 mths ago we were very strict about transferring ventilated patients out after 24 -48 hrs. It has become more the norm to wait until we have 2 or even 3 vents before trying to transfer them. Several issues have impacted upon this decision, from individual physician /surgeon preference, to no beds availble in Brisabane, to Brisbane not wanting the type of patients we have. I shall enclose the breakdown of figures that I have done, If there is anything else I can help with please ask

Thanks Toni

Toni Hoffman NUM ICU/CCU PO Box 34 Bundaberg Q 4670 Ph: 07 4150 2311

Fax: 0741 50 2319

CC:

Linda Mulligan

-> Grant guy

Number of Ventilated patients has stayed static around 90-100. This is only Invasive ventilation. We do not have accurate hours yet of non invasive ventilation . ie Bipap.We are in the process of collecting this data. I have enclosed the stats we keep. We are in the process of changing these stats to include some different ones. Some we no longer need to keep , such as lysis, as it is mostly done in DEM now.. I have no record of Planned admissions, this goes through Liz Allan, except for the allocation book which tells me we have about one per week. All the rest are emergency admissions. We have no stats on the number of times we have tried to transfer a patient out and couldn't due to bed blockage, but we shall start keeping that data now. Rather than me go back through the budget for the whole 2 years, to ascertain how many discharges, This data can be easily accessed from the "gail sheet" or through DQDSU. I have added transfers and deaths in the stats I have sent you, but it doesn't give a total number. Occupancy rates are quoted in the "gail sheet" at around 79-85 %.. The number of ventilated hour has increased

There are many inappropriate admissions because many of the patients are not seen by a consultant before they are admitted. The PHO is able to admit patients here and they should not, as they then leave and the patient is left with no orders etc. The admission policy states the ICU consultant should be notified prior to admission, they should also see the patient to ascertain whether it is appropriate to admit that patient into the ICU.

Bed blockage is a huge problem, we have patients waiting for days for a ward bed, the N/m are reluctant to give up the bed until ICU has to take an emergency and then there is a huge scramble to transfer out a patient, clean the bed area and get another.

Equipment issues. Last week we had a patient who was admitted into the ICU isolation room? TB, because the one on medical ward was broken. This gentlemen, discharged himself, but was given a pass to return at his leisure to the ICU. This went on for 6 days, whilst we awaited his sputum specimens, partly because there were no sputum samples sent off early as requested.

Admission and discharge policy, last reviewed by Dr Martin Carter and myself, last year. Shall send a copy, otherwise should be on G drive.

Up until about 2 yrs ago, ICU was very strict adhering to the 24-48 rule of transferring out patients. Now we may wait many days, before making the initial phone call. Due to the reluctance of one of the surgeons, one of the doctors refuses to transfer patient out, which mean it impacts on our staffing overtime and morale.

The major issue which has used up all of our OT for the year is the number of ventilated patients at once. We can easily care for them when they are spread out over the year, but all at once uses our resources. The types of patients admitted should be more thoroughly examined. The unit should be a closed unit, except for CCU patients, all patients on BIPap should be under the care of the Anaesthetists for continuity of care.

The Bipap machine has increased our workload as well as the require as nearly the same number of nursing staff as a ventilated patient.

	Age	Diagnosis	Vent Hours	Other
Jul-03	1928	pneumonia	5.	<u> </u>
	1958	pneumonia	71/2	
	1933	post arrest	2	
	1941	apnoea	48	delay in transferring pt to brisbane
	1924	SB resection	15	biliary peritonitis
	1927	perf bowel	6	bliary perioritis
	1935	acute resp distress	96	
	1923	post arrest	24	
	1941	post op perf DU	48	v O statio
	1972	post op pen bo	72 hrs	x 2 visits
	1912	total vent hrs	323	
10		total vent his	323	
31-I				
Aug-03	Age	Diagnosis	Vent Hours	Other
1.00-00	1931	AMI Metalyse	4 1/2	cerebellar he
ŀ	1921	AMI Metalyse	16	cerebeilar ne
<u> </u>	1987	OD Alvir Metalyse		cerebrai ne
	1907		45	
	1919	Hypertension/ laparotomy	28 (120)	
		COPD	1 (120)	
}	1924	Resp arrest	24	
	1966	cardiac arrest.	6	
-	1999	Burns	4	
ļ.	1960	DKA	19	
10	1985	organophosphate poisoning	24	stayed in ICU 4 days longer than nec.
29.0		TOTAL VENT HRS	290	
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<u> </u>				
Sep-03	Age	Diagnosis	Vent Hours	Other
	1939	CCF AF	35-	
F	1982	Scoline apnoea	1 1/2	
r	1935	AMI / cardiogenic shock	3	
<u> </u>	1927	Repair of AAA	(179)	
F	1931	Exacerbation of COPD	12	
	1932	perforated DU	(168)	
1	1922	COPD	12	
-2 4		TOTAL VENT HOURS	410	
58-p				
	12.	(w)	(D)	
	(1/10)	· (COPD).	Ann regar	19
<u></u>	160	· Incuneria	Par Du	ire.
L	260	· Post fetal	Poston occup	317
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<u></u>	240		1000000	
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Oct-03	Age	Diagnosis	Vent/Hours	Other
00.00	1961	Pneumonia	(168	waited for 7 days prior to TF
	1931	Subacute gut obstruction	12	waited for 7 days prior to 17
	1930	Resp Distress	15	
	1967	Pneumonia	24	
	1966	DKA Cerebral oedema	10	
	1000	TOTAL VENT HRS	229	
		TOTAL VENTING	223	
				- Part
		-		
Nov-03	<u>Age</u>	<u>Diagnosis</u>	Vent Hours	<u>Other</u>
	1939	Infective cOAD	8 hrs	died
	1952	spinal shock	17 hrs	died
	1980	MVA brain death	35 hrs	organ donor
				ALL OF THESE PATIENTS
	1928	post arrest	33 hrs	VENTILATED AT ONCE
	1928	sepsis	52	
ſ	1929	sepsis	36 hrs	
	1931	sepsis R/O gangrenous gall ballde	50	
Ī		TOTAL VENT HRS	231	
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Dec-03	Λ σο	Diagnosis	Vent Hours	011
Dec-03	<u>Age</u> 1932			<u>Other</u>
-	1966	Post op oesophagectomy VF Arrest	(312)	
-			10 1/2 hrs	
-	1921	post op	14 1/2	
-	1975	MVA	72	
	1936	VF Arrest	21	
-	1976	# base of skulls	4	
_	1948	respiratory distress	60	reventilated x 4 times.
_	1938	post op Tenkoff insertion	2	deceased
ļ_	1978	OD xanax	2	
	1934	VF Arrest	26	
		Total vent hours	524	
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Jan-04	Age	Diagnosis	Vent Hours	Other
JU, 1 UT	1942	VF arrest	60	Oniei
	1921	cardiogenic shock	96	
Ì	1935	Leukaemia	24	
	1954	OD	17 1/2	
ŀ	1960	Gl Bleed	24	
}	1942	AF	10	
ŀ	1956	Multitrauma	48hrs	
}	1936	CVA		
ŀ	1944		21 hrs	· Appren.
		total vent hours	300	
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eb-04	Age	<u>Diagnosis</u>	Vent Hours	Other
SD-04	1934	Atypical pneumonia	72	Oulei
-	1934	Atypical prieumonia		
-		pneumonia	48	
-	1937	Bowel obstruction	96	
-	1940	sepsis	60	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
_	1983	# skull	1/2 hr	
L	1954	post ictal	(240)	
	1945	post apronectomy	24	
	1948	pancreatitis	61/2 (216)	
	1957	laparotomy	(216)	problems with transfer
		total vent hours	762	
. [
/Jar-04	Λαο	<u>Diagnosis</u>	Vent Hours	Other
viai-04	<u>Age</u>			Onei
	1993	Head Injury	4 1/2	
	1958	near drowning	(148)	
<u> </u>	1933	cerebral bleed	288	strong.
•	1950	pneumonia	48	
L		total vent hours	488	
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Apr-04	Age	<u>Diagnosis</u>	Vent Hours	Other
	1952	post arrest	13	·
ſ	1925	cardiac arrest	31_	
ľ	1959	multi organ failure	(240)	
ľ	1927	post op	3	
F	1927	cardiac arrest	40	
<u> </u>	1942	post op colectomy	23	
ŀ	1933	Bowel Obstruction	(216)	
F		total vent hrs	566	
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H				
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May-04	Age	Diagnosis	Vent Hours	Other
	1979	stabbing	11	
-	1959	post op lap	14	
-	1944	chest pain	(240)	
F	1982	Head injury	7:1/2	***************************************
H	1302	total vent hrs	272	
F		total ventilis	212	
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Jun-04	Age	<u>Diagnosis</u>	Vent Hours	<u>Other</u>
<u> </u>	1987	OD	(154)	
<u> </u>	1955	post op arrest	(61 hrs	
<u> </u>	1921	post op arrest	2 1/2	
	1930	SAH	2	
	1941	resp failure	3	
L	1948	collapse /AF	7	
	1991	pneumonia	51/2	
	1987	OD tegretol	48	
	1922	post arrest	6 hrs	
	1933	insertion vascath pef RIJ/ trach	(141)	perforated trachea.
L	1928	SAH	29- 355	
		total vent hours	559	
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<u>Jul-04</u>	Age	<u>Diagnosis</u>	Vent Hours	Other
	1925	sepsis	46	
Ī	1964	MVA	24	, , , ,
<u> </u>	1958	resp failure	24	
<u> </u>	1954	OD	17	· · · · · · · · · · · · · · · · · · ·
-	1943	collapse resp failure	22	· · · · · · · · · · · · · · · · · · ·
H	1922	collapse VT	22	,
-	1986	HI	31/2	
		Pancreatitis	58	**
F	1934		22	
ŀ	1947	Resp Failure		
_	1922	post arrest	2	
ļ_	1926	post embolectomy	41	
L	1967	post arrest	(240)	
14	1948	crush injury to chest	70	
1	1936	Brain Stem Infarct	3	
321		total vent hours	534	
Aug-04	Age	Diagnosis	Vent Hours	<u>Other</u>
	1928	No Diagnosis entered	96	
-	1910	Bowel Obstruction	(120)	· · · · · · · · · · · · · · · · · · ·
-	1987	MVA	22	
-	1918	Post op	96	
	1941	Sepsis	24	
-	1941	Head Injury	(204)	
F	1965	Cardiac Arrest	48	
-			6	
-	1948	SAH		
ļ_	1977	MVA	72	
<u> </u>	1931	MI	81	
13	1965	HI	24	
10h	1943	Post Arrest	24	
10	1945	Post Arrest	96	
-		Total Vent Hours	913	
Sep-04	<u>Age</u>	<u>Diagnosis</u>	Vent Hours	Other
	1942	Ruptured AAA	8	
Γ	1937	Post op repair pelvic fistula	15	
	1985	# base of skull	6	
	1942	CCF	24	
F	1952	APO / AF	72	
<u></u>	1950	Pneumonia	(120)	all one weekend
	1965	MVA	12	
q	1961	MVA Ruputured Spleen	4	Delay surgeon issue
g 32·6.		Total Vent Hours	261	
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	jan	feb	mar	арг	may	jun	jul	aug	sep	oct	nov	dec	total
Total pts	76	. 71	91	64	63	58	67	62	51	55	47	59	764
ICU	27	25	38	22	31	25	22	22	20	20	21	32	305
CCU	48	46	51	40	32	32	44	40	30	34	23	26	446
Paeds	1	0	2	2	0	1	1	0	1	1	3	1	13
Died	5	1	5	1	2	2	1	4	0	1	1	4	27
Ventilated	7	8	6	4	12	4	9	10	6	5	7	12	90
Retrieved	10	9	15	8	9	10	12	12	10	7	11	10	123
CVC inserted	5	3	5	2	4	1	5	5	2	3	6	16	57
Pneumothorax	0	0	0	0	0	0	1	1	0	0	0	0	2
Unplanned readmission	1	1	0	0	0	0	0	0	0	0	0	0	2
Snake bite	6	1	5	0	0	0	0	0	0	0	4	1	17
Overdose	10	5	11	2	5	1	2	1	1	2	5	1	46
CPAP	0	1	1	2	3	0	1	4	2	1	0	2	17
МІ	14	12	10	8	11	12	14	11	10	14	11	12	139
Thrombolysis	7	4	2	4	3	3	3	3	0	2	0	5	35
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	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	total
Total patients	57	59	60	45	50	51	49	55	45	43	43	46	603
ICU	22	26	20	23	15	25	20	28	24	16	29	24	272
CCU	34	32	38	21	35	25	26	25	19	26	14	20	315
Paeds	1	1	2	1	0	1	3	2	2	1	0	2	16
Died	3	2	5	6	7	2	4	· 2	3	2	4	4	44
Ventilated	6	6	8	5	9	11	11	11	7	5	8	10	97
Vent/tubed hrs	356	220	134	228	401	648	288	250	329	244	231	588	3917
Retrieved ICU	6	6	4	3	3	9	4	6	2	3	6	6	58
Retrieved CCU	8	12	10	6	10	7	7	2	5	6	7	5	85
CVC inserted	7	8	6	3	4								28
Inability to admit													0
Unplanned readmission													0
Co-alia hita													
Snake bite	1	2	2	2									7
Overdose	2	4	3	2	2	3	0	4	2	1	3	3	29
CPAP	1	1	1	1	3	3	2	3	1	6	5	2	29
MI	18	16	18	7	23	11	12	3	9	15	7	8	147
Thrombolysis	4	2	7	0	8	1	3	2	2	1	3	1	34
									<u> </u>				
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	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec	total	
Total patients	56	53	41	54	58	58	79	56	45				500	1.
ICU	23	27	18	21	15	30	35	25					194	F2.
CCU	30	25	22	30	35	28	43	31					244	
Paeds	3	1	1	3	0	4	1						13	
Died	0	3	0	2	7	5	4	3					24	
Ventilated	7	8	5	7	9	· 12	15	12	10				85	4-
Vent/tubed hrs	222	509	488	384	248	559	735	812	280				4237	_
Retrieved ICU	5	6	3	3	3	5	3	6					34	
Retrieved CCU	9	8	3	9	10	7	8	8					62	
CVC inserted													0	
Inability to admit													0	
Unplanned readmission													0	
Snake bite	2	1	1	0	0	0	0	0					4	
Overdose	2	3	0	3		3	4	0					15	
CPAP/BIPAP	2	3	3	3	3	192		3					209	
													0	
MI	20	12	8	8	23	16	14	16					117	
Thrombolysis	3	7	3	2	8	1	2	3					29	

12.6%