"Measuring the Units" need not be Challenging - Using NCEPOD criteria to Improve the Management of Patients with Alcohol-related Liver Disease in a District General Hospital

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CONTEXT:

In 2013 the NCEPOD published the results of an audit¹ of the care of hospitalised patients with alcohol-related liver disease (ALD), as prompted by the 2009 National Plan for Liver Services². This damning report concluded that despite the increasing incidence of ALD, and the relatively young (and falling) average age of death from ALD, these patients were repeatedly failed throughout their care pathway at even the most basic levels of care. While members of the gastroenterology department could recall instances where patients with ALD were managed sub-optimally, we had never formally assessed our own performance.

METHODS AND STANDARDS:

In response, we utilised this NCEPOD report to analyse and improve on our local performance. The audit benchmarks used are listed below and include: mortality, performing blood cultures and ascitic taps on admission, adequate use of thiamine replacement and appropriate use of alcohol withdrawal regimens. Patients with ALD were identified prospectively by daily review of the acute admission unit and gastroenterology ward patient lists, as well as the gastroenterology inpatient referrals. The first audit round ran from January to April 2014. Following our interventions, we performed a re-audit from May to July 2014.

	Round 1	Round 2		
Audit round duration	4 months	3 months		
Number of patients	48	38		
Mean age (range)	57 (37-77)	50 (28-76)		
Percentage of male patients	65% (31/48)	66% (25/38)		

STANDARD	ROUND 1	INTERVENTIONS		ROUND 2	Ουτςομε	DISSEMINTATION, ACTION PLAN AND
<u>GLOBAL OUTCOMES</u>		1. Local Guidelines			Unable to	While there remains scope for
1. Mortality	21% (10/48)			8% (3/38)	comment	significant improvement, our
2. Median age of mortality (range)	59 (45-77)	 We created local guidelines on the management of decompensated liver 	╞	59 (40-63)	(Age as a confounding	audit has resulted in a positive outcome for patients with ALD.
3. Median length of stay in days (range)	6 (1-52)	disease using NCEPOD		8 (2-81)	factor)	
BLOOD CULTURES		criteria				We have continued offering
4. All patients with decompensated ALD should have a blood culture on admission	25% (12/48)	An A4 summary sheet of the guidelines were uploaded to the trust intranet, emailed to all		39% (15/38)	Improvement	regular teaching sessions and presented our audit findings at the both the local grand round and the medical clinical
5. Proportion of patients with decompensated ALD and symptoms, signs or investigations in keeping with infection that are having blood cultures	33% (11/33)	relevant doctors and displayed throughout A&E and the acute admission unit		67% (14/21)	Improvement	governance meetings. In response to staff feedback, we have created dedicated local
ASCITIC TAP		2. Staff Education				guidelines for the management
6. Percentage of patients with ascites on admission	52% (25/48)	Regular and targeted training sessions of:		47% (18/38)	N/A	Einally, we are in the process of
7. If ascites is present on admission, a diagnostic tap should be performed	76% (19/25)	•A&E doctors and nurses •Acute medical admissions		94% (17/18)	Improvement	re-auditing our performance over the period of September
8. If an ascitic tap is performed, average time from admission to ascitic tap	41 hours	unit doctors •All FY1 doctors •All Core Medical Trainees		25 hours	Improvement	to December 2014 (4 months).
THIAMINE REPLACEMENT 9. Proportion of patients drinking up to,	69%	<u>3. Gastroenterology Team</u> Involvement		72%		REFERENCES:
or near to admission	(33/48)	Presentation of audit		(28/38)	N/A	1 NCEPOD 'Measuring the
10. All patients at risk of re-feeding syndrome, or with ongoing or recent alcohol abuse should be commenced on Pabrinex®	94% (31/33)	findings at clinical governance meeting		93% (26/28)	Unchanged	Units': A review of Patients who Died with Alcohol Related Liver Disease. June 2013.
ALCOHOL WITHDRAWAL		gastroenterology				13arld.htm
11. Appropriate alcohol withdrawal regimen prescribed	62% (18/29)	department morbidity & mortality review		62% (13/21)	Unchanged	2. The National Plan for Liver
12. Referral to alcohol liaison team if drinking up to, or near to admission	58% (19/33)	and coordination between doctors, ward charge		82% (23/28)	Improvement	Act: Improving liver health and outcomes in liver disease.
13. Average time from referral to review by alcohol liaison team	1.62 days	team	╞	0.88 days	Improvement	ments/1004 National%20Liver %20Plan%202009.pdf