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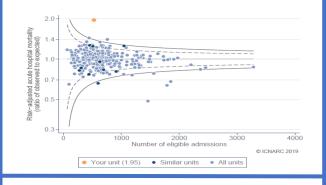
# Lessons Learnt from Morbidity and Mortality Reviews in a Tertiary Centre Post-Anaesthetic Care Unit

For **References** please scan...



#### Introduction

In 2019, the Intensive Care National Audit and Research Centre (ICNARC) Case Mix Programme quality report identified a high standardised mortality rate (SMR) for Post-Anaesthetic Care Unit (PACU) patients in University Hospital of Wales (UHW) compared to other similar units nationally.



- Post-anaesthetic Care Unit (PACU)
- Elective abdominal and thoracic surgical patients
- High-risk cohort (2-5% predicted mortality)
- <72 hours of enhanced post-operative care</li>

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- 1. To elucidate common themes to rationalise the high SMR identified within the PACU at UHW
- 2. To ascertain meaningful learning points to inform and improve future patient care

	Results				
528 patients admitted to PACU		ed to PACU	<b>16</b> patients died* (None in PACU)		
Survived – <b>512</b> <i>"Expected deat</i>		"Expected dea	ths" – <b>8</b> "Unexpected deaths" – <b>8</b>		
Demographics		graphics	Key Emerging Themes		
Average Age Average PACU Stay 75 years 1.5 days (57 – 84) 12.5% (0.7 – 4.1) 87.5% Male Female		1.5 days (0.7 – 4.1) 87.5%	<ul> <li>Non-elective admissions</li> <li>Elective</li> <li>Non-elective</li> <li>Urgent</li> <li>Scheduled</li> <li>62.5%</li> </ul>		
2	High predicted mortality		3 Patient co-morbidities		
	APACHE II ICNARC	Mean % 7.0 (1.2-41.0) 4.7 (0.8-13.9)	10 (63%) 7 (44%) 8 (50%)		
<b>APACHE II</b> >5% (8, 50%) >10% (3, 19% <b>)</b>		-	<b>G</b> 5 (31%) 3 (19%)		

### Methods

Study period = April 1st 2018 – 31st March 2019

Patients admitted to PACU who died during their hospital admission\* were identified

Case notes were retrieved and reviewed using a standardised template documenting key learning points for analysis

#### Conclusions

Paucity of PACU mortality cases to elucidate conclusions from this one study however emerging themes include:

- $\circ$   $\;$  A significant contribution of
  - Non-elective PACU admissions (ICU/ emergency/ urgent)
  - High acuity patients (APACHE II/ comorbidities)
- Variation in pre-operative assessment and optimisation and post-operative follow-up

## Next Steps...

- Identifying at-risk groups and developing interventions to minimise risk
- Appropriate admissions to PACU, where possible...
- Further pre-operative optimisation of patients
- PACU discharge safety netting and follow-up