

# ANZELA

## Australian and New Zealand Emergency Laparotomy

Period: 2021-2022

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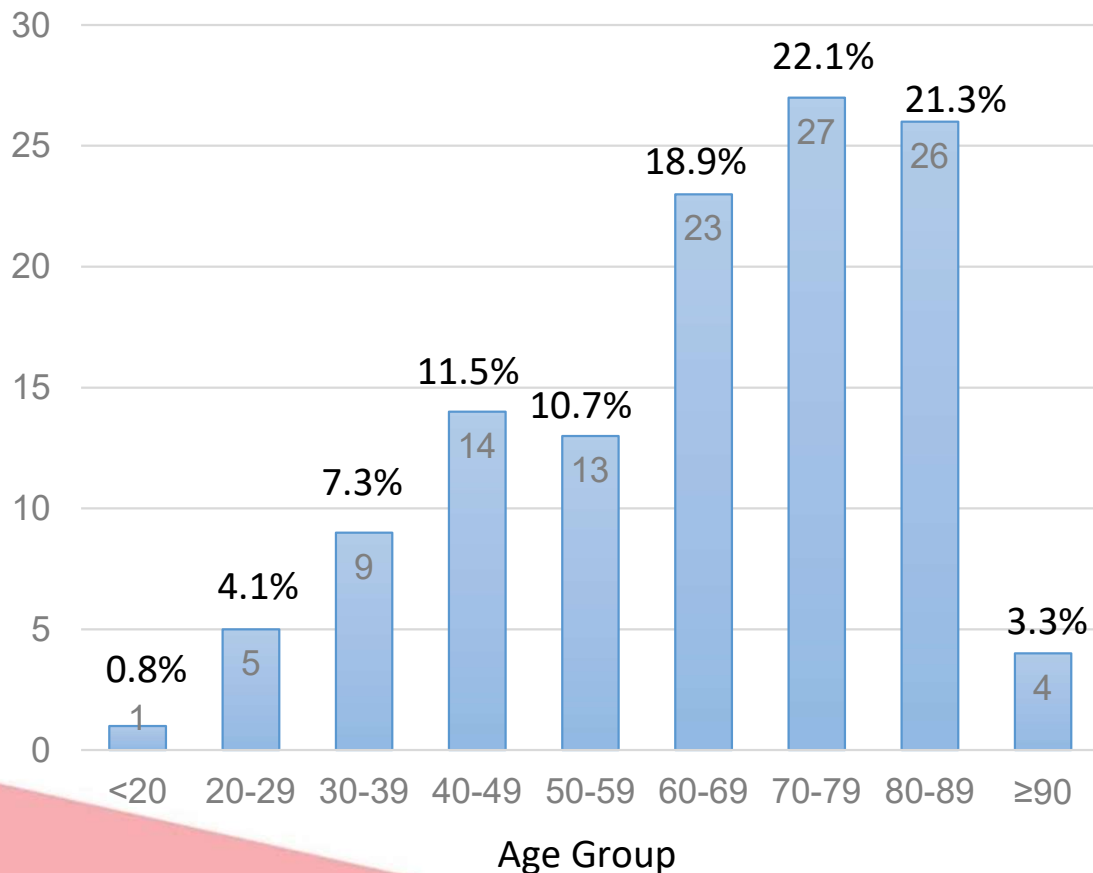


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# Demographics (Aug 2021 – Sep 2022)

Number of Patients



- N=124 recorded; 2 palliated

- Gender: F=68; M=54

## Admission Source

- Emergency Department = 116

- Medical wards or other unit = 6

- Transfer = 20

- URTT following elective surgery = 8

# Performance against ANZELA KPI's

KPI	2021 - 2022	Total
<b>Number of patients</b>		122
<b>Before</b>		
CT scan reported before surgery	95.7%	89/93
Lactate available at referral	57%	70
Preoperative risk documentation	76%	93
Preop frailty assessment >65 years	36%	25/70
Arrival in theatre within time	65%	77/118
<b>During</b>		
Consultant surgeon in theatre > 5%	86%	54/63
Consultant anaesthetist in theatre > 5%	100%	63/63
Both surgeon and anaesthetist > 5%	86%	54/63
<b>After</b>		
Direct CCU admit when NELA > 10%	64%	23/36
Elderly Medicine review > 65 yrs	16%	12/74

# NELA Score and Operative Outcomes

NELA Score	Total Number	Mortality	CCU admit rate	Av LOS (days)	URTT during admit/re-admit	% Discharge To Pre-Hospital Residence
≤ 5%	61	1 (1.6%)	6 (9.8%)	9.8	5 (8.2%)	59 (96.7%)
>5 to ≤10%	25	1 (4%)	14 (56%)	15.4	3 (12%)	25 (100%)
>10 to ≤15%	16	4 (25%)	8 (50%)	10.1	1 (6.3%)	8 (50%)
>15 to ≤20%	6	0 (0%)	3 (50%)	19.2	1 (16.7%)	5 (83.3%)
>20 to ≤30%	9	3 (33%)	8 (88.9%)	16.2	1 (11.1%)	4 (44.4%)
>30 to ≤40%	1	0 (0%)	1 (100%)	10.1	0 (0%)	0 (0%)
>40 to ≤50%	3	2 (66.7%)	2 (66.7%)	16.1	1 (33.3%)	0 (0%)
> 50%	1	1 (100%)	1 (100%)	2.1	0 (0%)	0 (0%)
Overall	122	12 (9.8%)	43 (35.2%)	12.4	12 (9.8%)	101 (82.8%)

# Clinical Frailty Score and Operative Outcomes

Clinical Frailty Score	Total Number	Mortality	CCU admit rate	Average LOS (days)	URTT during admit/re-admit	% Discharge To Pre-Hospital Residence
1-2	3	0	0	6.4	1 (33.3%)	3 (100%)
3-5	20	1 (5%)	9 (45%)	11.8	2 (10%)	13 (65%)
6-9	2	1 (50%)	1 (50%)	12.5	0 (0%)	1 (50%)

# Emergency Laparotomy Mortality By Condition

Condition	Number	No of deaths and (%)
Large bowel emergencies	40 (32.8%)	6 (15.0%)
Small bowel obstruction	32 (26.2%)	1 (3.1%)
Upper GI emergencies	13 (10.7%)	2 (15.4)
Hernia	12 (9.8%)	0 (0%)
Peritonitis	11 (9.0%)	1 (9.1%)
Post op complications URTT	8 (6.6%)	0 (0%)
Mesenteric Ischaemia	4 (3.3%)	2 (50%)
Other	2 (1.6%)	0 (9%)

# Emergency Laparotomy Mortality By Procedure

Procedure Group	Number	No of deaths (%)
Small bowel obstruction without resection	21	0 (0%)
Small bowel procedure with resection	25	2 (8%)
Colon resection with anastomosis	26	1 (3.8%)
Colon resection with stoma	26	4 (15.4%)
Gastroduodenal procedure	11	1 (9.1%)
Peritonitis	5	1 (20%)
Other emergency laparotomy procedure	8	3 (37.5%)
<b>TOTAL</b>	<b>122</b>	<b>12</b>

# Summary

- Outcomes comparable to data provided in the first ANZELA report
- Room for improvement in several KPIs e.g. preop lactate, risk stratification, postoperative physician review
- Importance of prospective data entry