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## An Australian perspective SADI-S/OADS: adverse events and nutritional deficiencies

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## SADI-S/OADS - An Australian perspective

### SURGICAL ADVERSE EVENTS AND NUTRITIONAL DEFICIENCIES

An observational retrospective cohort study Nov 2016 to Aug 2019



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#### Disclosure

Conflict of interest: Dr J Jordaan and Dr N Jordaan provide medical/surgical services to all participants. Data extraction and data analysis was done independently by C Matthews and Dr Marshall, respectively. Ethical consideration: This study was approved by the Bond University Human Research Ethics Committee. We acknowledge WLSA for facilitating the presentation and making their premises available for data collection.

## Demographic and Clinical Characteristics

Characteristic	
<b>Total SADI-S/OADS patients</b>	N=100
<1 year	n=51
1-2 years	n=27
>2 years	n=22
<b>Mean age at surgery ± SD (years)</b>	44 ± 11y
<b>Gender (Female)</b>	75%
<b>Clinical indication</b>	
<b>Primary procedure</b>	61%
Super obesity BMI >50	34%
T2DM BMI >43	10%
Other (case by case)	17%
<b>Revisional surgery</b>	39%
2° to sleeve gastrectomy	30%
2° to other procedures	9%

## Surgical Adverse Events: 4%

# events	Complication
1	Laparoscopic repair inadvertent enterotomy (1-day post-op)
1	Washout and debridement of infected umbilical hernia repair (7-days post-op)
1	Diagnostic laparoscopy for abdominal pain, unremarkable (4-months post-op)
1	Laparoscopic conversion to BPD-DS due to bile reflux (5-months post-op)

# Nutritional Deficiencies

	Pre-op N= 100	3-months N= 76	6-months N= 52	9-months N= 31	12-months N= 28	18-month N= 13
Vitamin D	46 (50%)	17 (24%)*	10 (21%)*	8 (28%)*	7 (26%)*	3 (30%)*
B12	5 (5%)	1 (1%)*	0 (0%)*	0 (0%)*	0 (0%)*	0 (0%)*
Folate	5 (5%)	11 (16%)*	8 (17%)*	7 (24%)*	5 (20%)	2 (20%)
Calcium	19 (24%)	12 (20%)	12 (26%)	9 (31%)	9 (35%)	6 (50%)
Zinc	33 (40%)	26 (39%)	21 (51%)	20 (77%)*	18 (78%)*	4 (44%)
Iron	9 (12%)	8 (11%)	9 (19%)*	2 (7%)	0 (0%)	0 (0%)
Transferrin Saturation	31 (43%)	25 (36%)	18 (38%)	9 (30%)	4 (17%)*	3 (30%)
Ferritin	13 (14%)	0 (0%)	6 (12%)	1 (3%)	2 (8%)	1 (9%)
Albumin	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)
B1	0 (0%)	0 (0%)	0 (0%)	1 (4%)	0 (0%)	0 (0%)
Vitamin A	0 (0%)	0 (0%)	0 (0%)	0 (0%)	0 (0%)	2 (25%)

Deficiency classification based on ASMBS critical ranges (2017)

\*P<0.05 change from pre-op  
Attrition at 18month n = 14, 20%

