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

