

Management of Gastroesophageal reflux post Bariatric Surgery using LINX: One Year Outcomes

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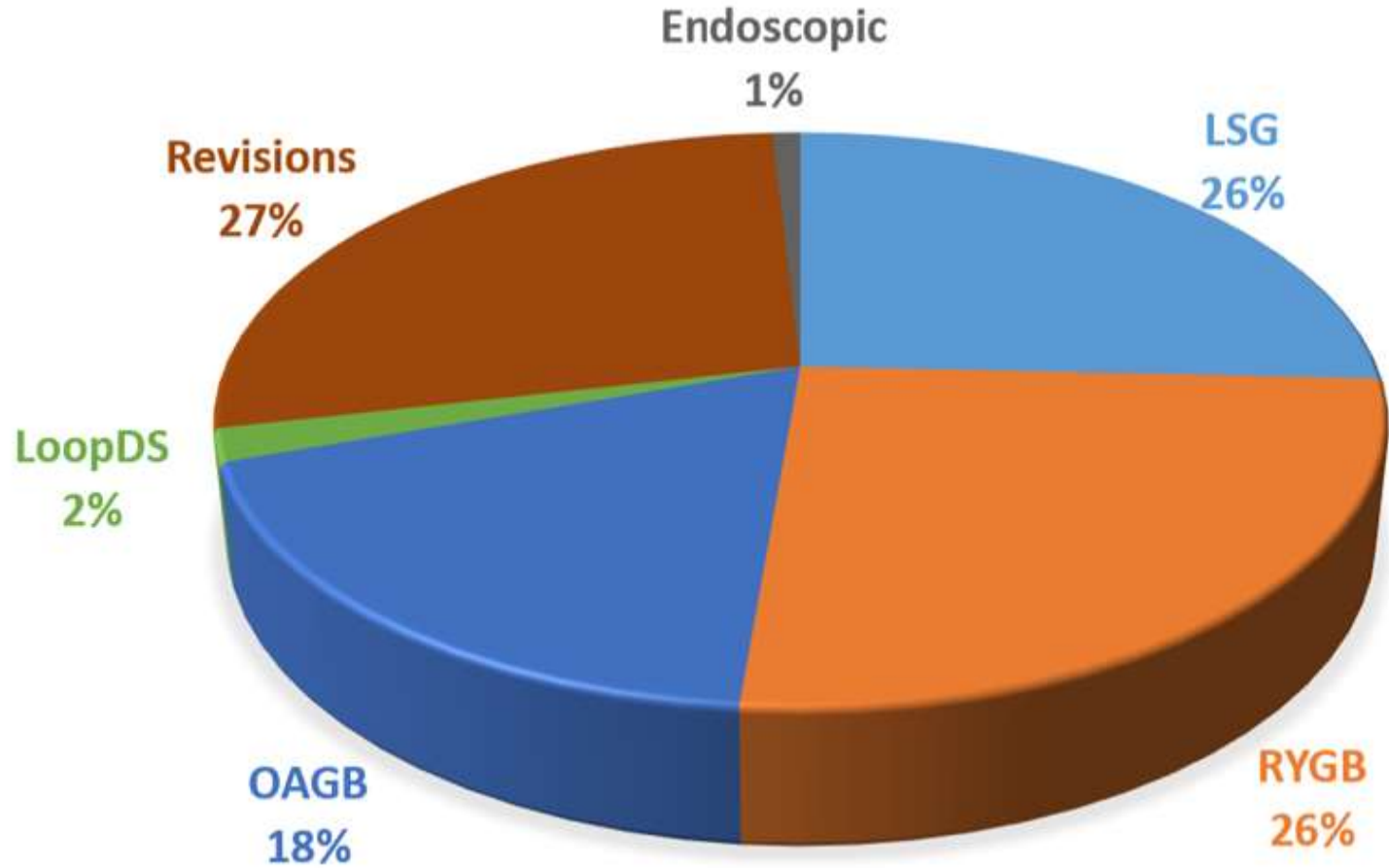


Disclosure

- None



Case Mix Disclosure Slide



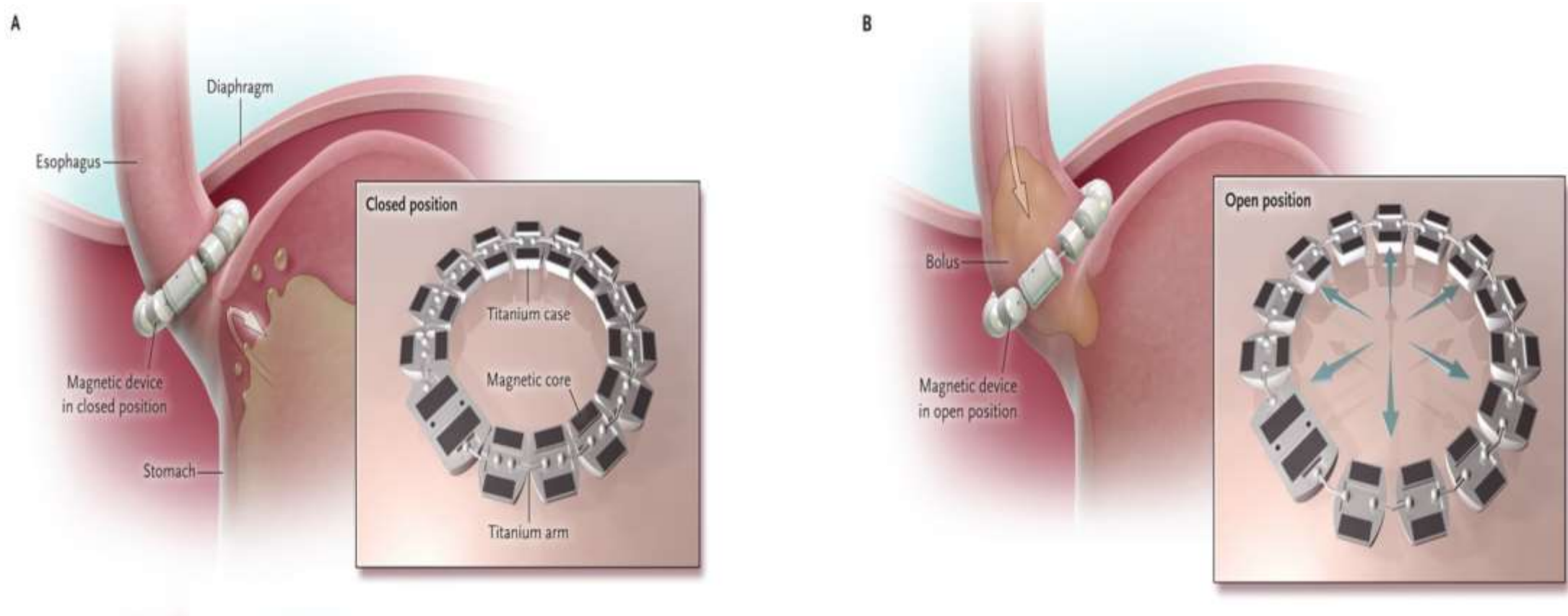
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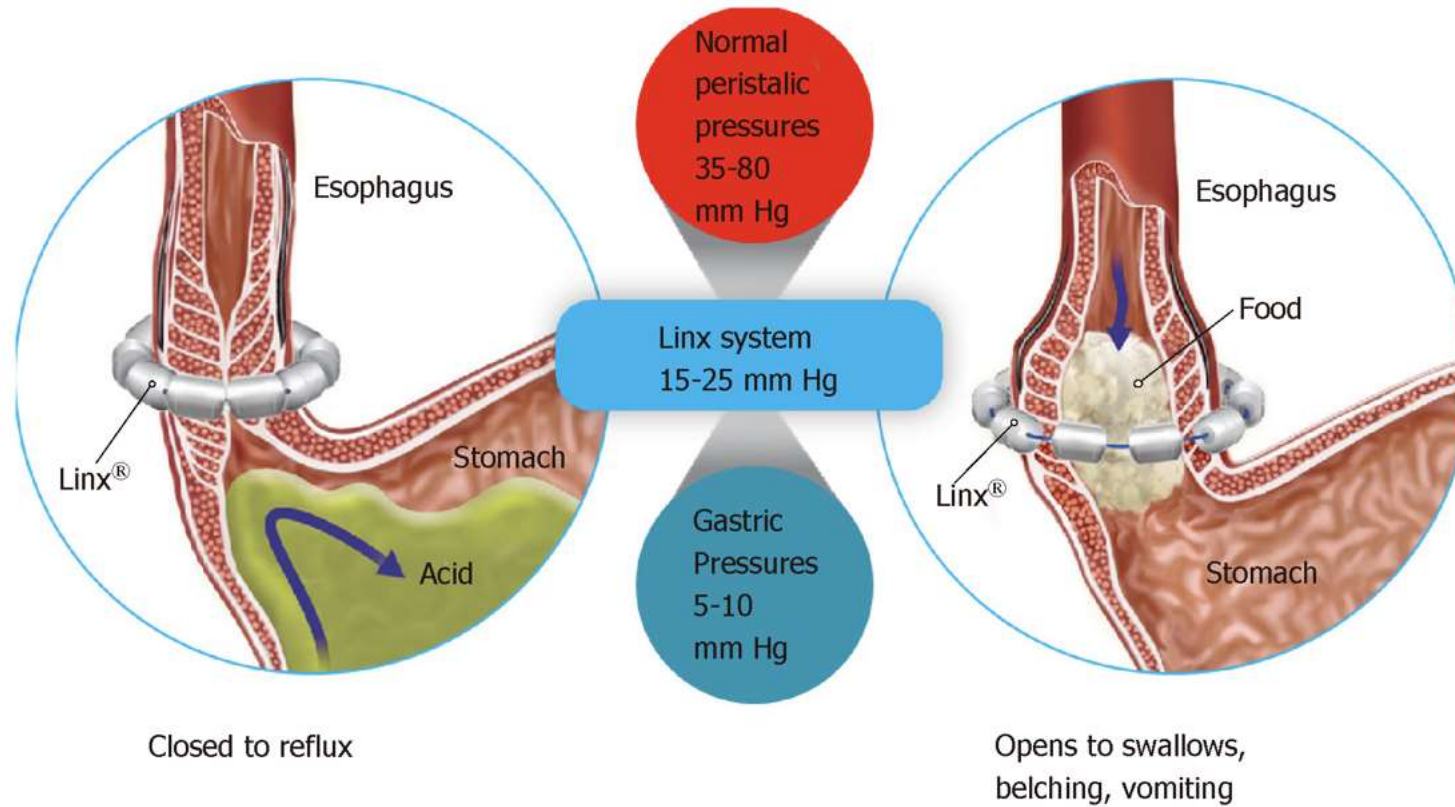
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Magnetic Sphincter Augmentation (LINX)





Aim

- Pts c/o GERD post bariatric surgery with good wt response looking for less invasive options



Methods

- Patients who had Magnetic lower esophageal sphincter Augmentation (LINX) in King Salman Armed Forces Hospital, Tabuk, KSA
- Post any bariatric surgery
- Completed at least 12 months follow up
- Only pts with BMI ≤ 30 kg/m² at time of placement
- All pts had endoscopy and barium meal study



Efficacy

- was assessed evaluating GERD control pre & post placement based on GERD-HRQL score and PPI use as follows:

1- $\geq 50\%$ reduction in GERD –HRQL score (off PPI)

2- $\geq 50\%$ reduction in average daily PPI usage



Results

- 13 pts post bariatric surgery completed at least 12 months



Subject baseline demographics

Variables	Characterization	N of subjects
Age (y)	Mean (SD)	37± 8.73
	Median (min, max)	37 (21, 52)
Gender	Female (%)	11 (84.6)
	Male (%)	2 (15.4)
BMI (kg/m ²)	Mean (SD)	25.7 (3.26)
	Median (min, max)	27 (19.1, 30)
Previous bariatric surgery	Sleeve (%)	10 (76.9)
	RYGB (%)	2 (15.4)
	OAGB (%)	1 (7.7)
Interval period (mn)	Mean (SD)	41.9 (28.37)
	Median (min, max)	36 (6, 102)
Follow up (mn)	Mean (SD)	28.2 (14.19)
	Median (min, max)	24 (12, 46)



	Age (y)	sex	BMI (kg/m ²)	Bariatric Surgery	Interval period (mn)	Pre op GERD-HRQL	12 mn Post op GERD-HRQL	24 mn post op GERD-HRQL	36 mn post op GERD-HRQL	Follow up (mn)	Comment
Pt 1	37	F	23.5	SG	27	52	3	4	19	46	
Pt 2	52	F	24	SG	31	49	1	3	3	46	
Pt 3	28	F	27	SG	21	43	6	8	39	44	Removed → RYGB after 44 mn (DeMeester 42)
Pt 4	47	F	30	SG	36	39	2	4	10	42	
Pt 5	43	M	29	SG	19	53	3	27	7	39	Recurrent Symptoms. (DeMeester 26.1)
Pt 6	28	F	25.4	SG	52	43	2	6	12	36	
Pt 7	21	F	23.2	SG	37	53	3	4	-	24	
Pt 8	31	F	28.1	SG	102	35	5	5	-	24	
Pt 9	31	M	27.8	SG	72	51	2	-	-	15	
Pt 10	43	F	20.7	SG	84	33	8	-	-	14	
Pt 11	45	F	19.1	RYGB	6	44	4	-	-	13	
Pt 12	42	F	29.1	RYGB	41	44	12	-	-	12	
Pt 13	33	F	27.5	OAGB	17	52	14	-	-	12	

Mean GERD-HRQL (SD)

47.9 ±7.61

12.61 ±9.54

P < 0.0001



	Pre op PPI	Post Op PPI 12mn
Pt 1	40	0
Pt 2	40	20
Pt 3	40	0
Pt 4	80	40
Pt 5	40	40
Pt 6	20	0
Pt 7	80	0
Pt 8	40	40
Pt 9	80	0
Pt 10	40	40
Pt 11	40	0
Pt 12	40	0
Pt 13	40	0

Mean (SD) 41.81 ± 13.36

13.84 ± 18.2

P < 0.0007



Conclusion

- Magnetic sphincter augmentation using LINX post bariatric surgery revealed overall improvement in GERD –HRQL score and reduction in PPI use
- LINX can be an option of treatment for post bariatric surgery pts who achieved good weight reduction
- Longer follow up is recommended with larger pts sample



Thank
YOU





