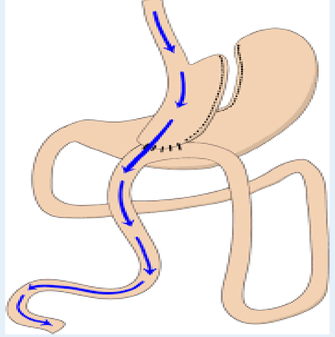
The effect of one anastomosis gastric bypass (OAGB) on Glomerular Filtration Rate (GFR) - A single institution's experience.

Wasim Nejidat, Shahar Atias, Yoel Chucron, Uri Netz, Itzhak Avital & Zvi Perry

Soroka University Medical Center, Surgery A



Background

Weight loss outcomes after bariatric surgery in patients suffering from extreme obesity are essential to battle the comorbidities related to obesity, like Kidney Injury and specifically Glomerular Filtration Rate (GFR). Laparoscopic one anastomosis gastric bypass (OAGB) is a standard surgical procedure used in Israel to aid patients living with obesity.

Methods:

A retrospective cohort study comparing GFR before and after OAGB surgery patients in our follow-up clinics over at least 24 months of follow-up. Data were collected from the patient's medical files, as well as operations reports and clinic visits. Patients' demographics, weight loss, postoperative complications, length of stay, and kidney function tests as GFR were also used.

Results:

- The study comprised 256 patients. Of these, 97 (38%) had kidney functional test taken both before the OAGB, and at least one post-surgery, so one could calculate GFR.
- There were 26 male patients (26.8%) with a mean age of 35.06 years (±12.4). Pre-op BMI was 41.6 (±5.4) kg/m2, and the average procedural length was 95.1 (±27.5) minutes.
- When looking at baseline GFR compared to later GFR measurements (at 6, 12, and 24-months post-surgery, as seen in Table 1), one can see a significant difference between measures depicted in Figure 1 (p=0).037, repeated measurement ANOVA).

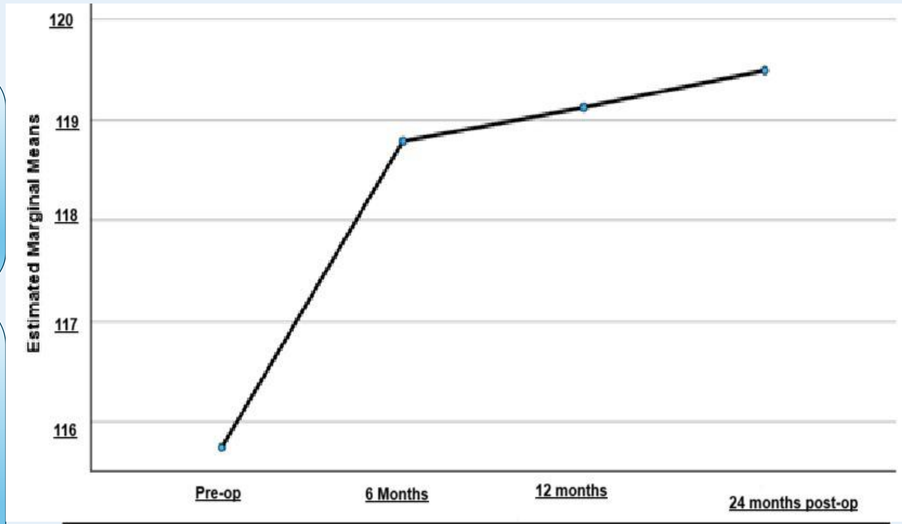


Table 1: GFR before and after surgery

	Before	Months after surgery		
		6	12	24
No. of patients (Valid)	97	79	76	82
Mean	115.74	118.78	119.13	119.48
Median	121.00	123.00	123.00	123.50
Std. Dev.	19.53	21.32	17.13	17.82

Discussion:

- OAGB gives a good answer to GFR deterioration in patients living with obesity.
- OAGB is a safe and effective way to control and alleviate the suffering incurred by obesity, specifically those related to kidney function tests. It has a beneficial effect on GFR.

Conclusions:

- ✓ OAGB is a safe and feasible procedure with good mid-term weight loss that can prevent and even improve GFR in patients living with obesity.
- ✓ Further studies on OAGB and a comparison with other bariatric procedures are needed.