



SURGICAL & MEDICAL WEIGHT LOSS SOLUTIONS  
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# LAPAOSCOPIC REVISION OF LAP ROUX EN-Y GASTRIC BYPASS TO DUODENAL SWITCH: OUTCOMES IN TERMS OF WEIGHT LOSS.

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## Introduction

- Morbid obesity is chronic insidious disease which leads to range of diseases and reduces the health related quality of life.
- Bariatric Surgery has been found to be a reliable treatment for morbid obesity, giving better long term weight reduction.
- One of the widely used bariatric surgeries is Roux en-Y Gastric Bypass (RYGB). This has associated with failure rates as high as 30% at 5 years.
- We performed the duodenal switch (DS) in patients for whom Roux-en-Y gastric bypass have failed .
- The purpose of this study was to evaluate the outcomes of the patient who had failed RYGB and were converted to DS, in terms of their weight loss.

## METHOD

- We evaluated all who underwent DS (6 underwent Regular DS and 10 underwent Loop DS) after their failed RYGB.
- All surgeries were performed by single surgeon at single institute. We retrospectively reviewed the data that included age, BMI, estimated blood loss and length of stay.
- Change in BMI and weight loss between pre-op and post-op follow up were evaluated.

## RESULT

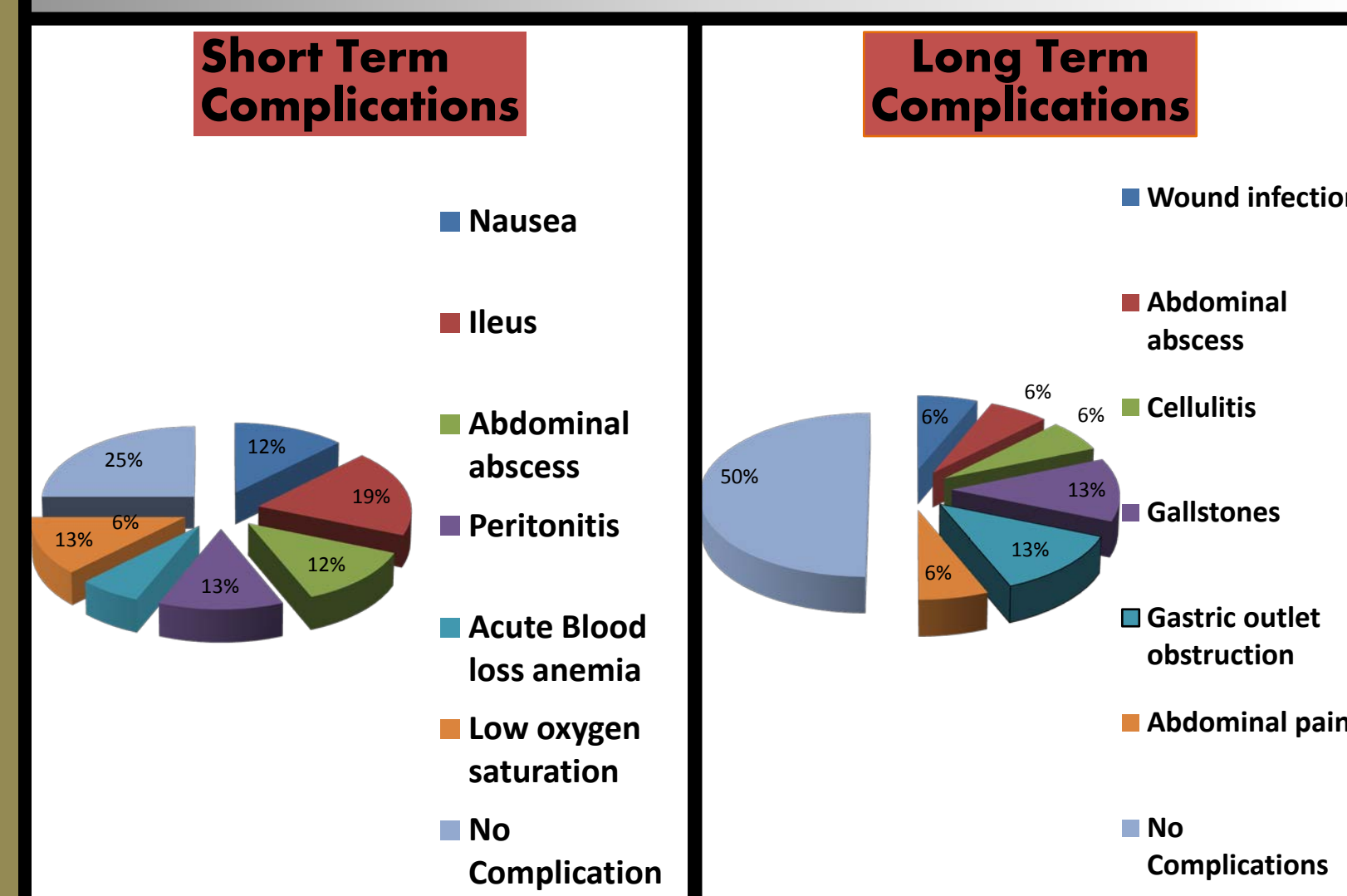
### 1. Demographic characteristics

N	16
Age (years)	51.1875 ± 9.874
DS	6 (37.5%)
Loop DS	10 (62.5%)
Pre-op Weight(lbs)	282.1688 ± 73.917
Pre-op BMI	46.10938 ± 10.633

### 2. Operative Details

N	(16)
Regular Duodenal Switch	6
Loop Duodenal Switch	10
Mean Length of stay	4.533333
Mean Estimated blood loss	41.818182

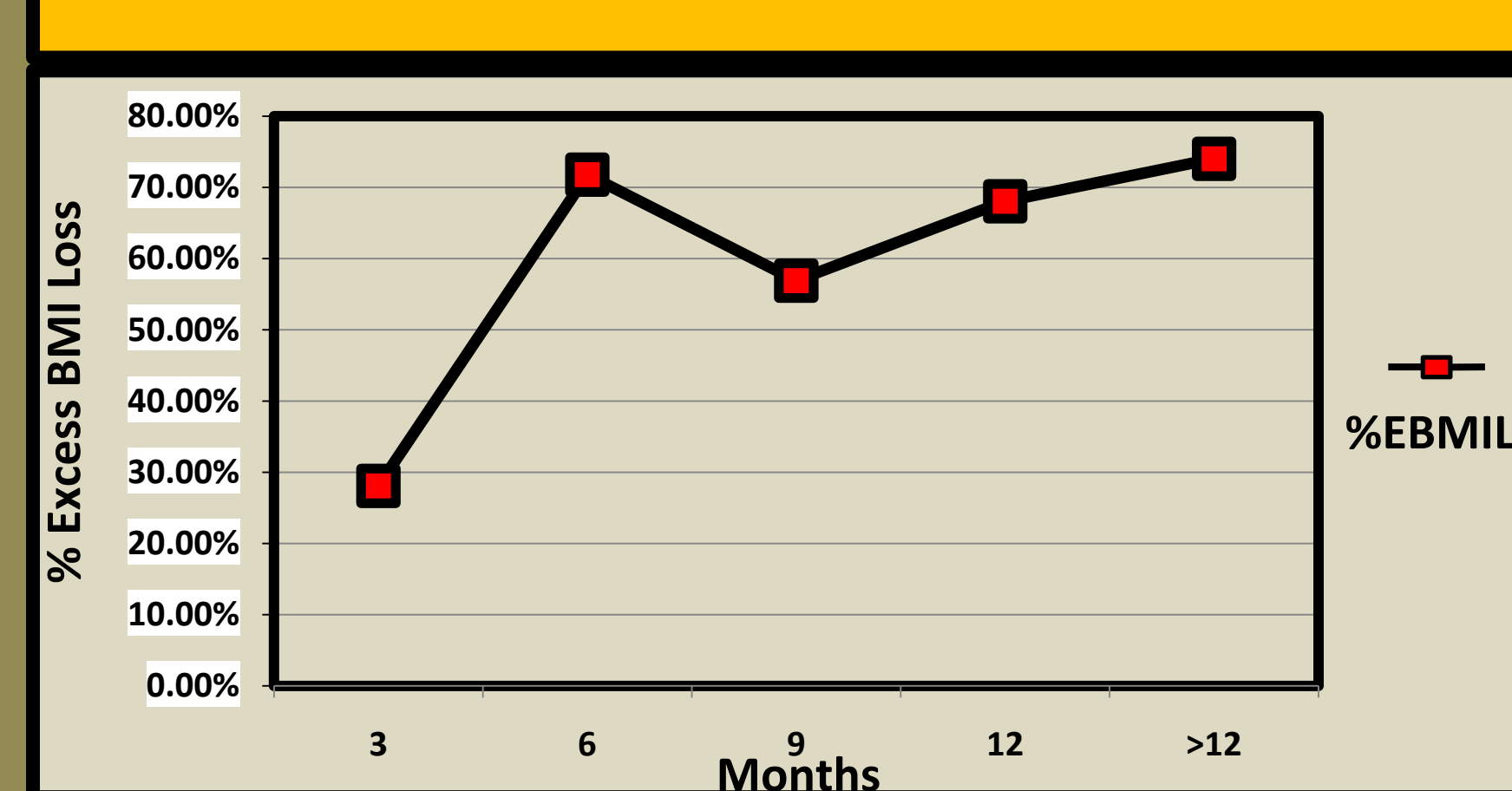
### 3. Complications



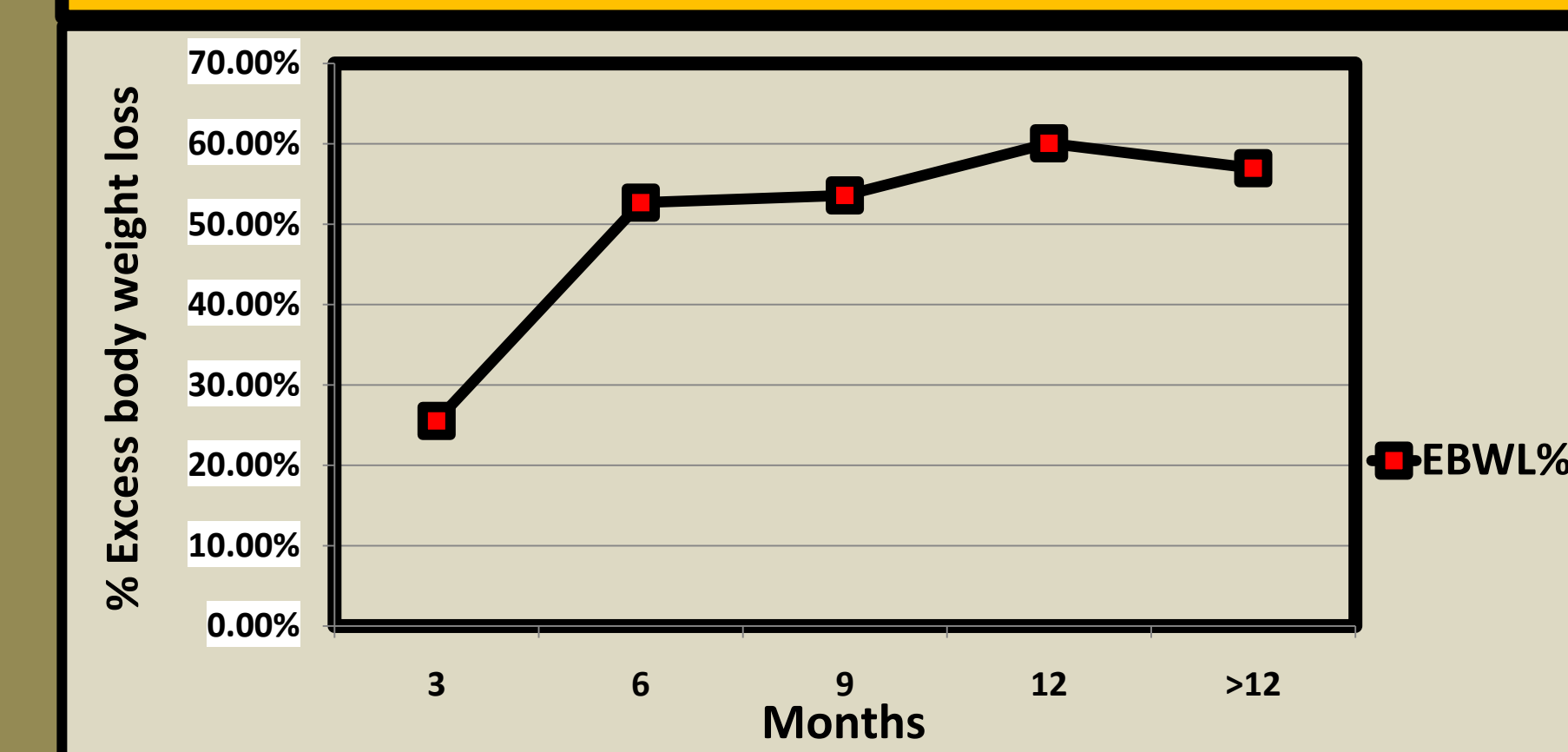
## 4. Weight loss analysis

	0-3 months n=13	4-6 months n=7	7-9 months n=4	12 months n=7	>12 months n=6
Total body weight loss (lbs)	32.79 ±13.430	60.53 ± 18.091	82.85 ± 26.904	94.97 ± 53.45	97.46 ± 51.25
Total body weight loss (%)	12.15 ± 4.94	24.25 ± 7.09	29.22 ± 10.4	31.33 ± 14.5	30.80 ± 10.90
BMI reduction (kg/m <sup>2</sup> )	4.765 ± 2.008	9.88 ± 2.863	12.1 ± 4.34	29.88 ± 36.071	15.66 ± 7.889
Excess BMI loss (%)	28.09 ± 16	71.79 ± 29.9	56.91 ± 20.7	68.05 ± 32.8	74.02 ± 36.7
Excess body weight loss (%)	25.53	52.68865	53.58	60.07076	56.9796

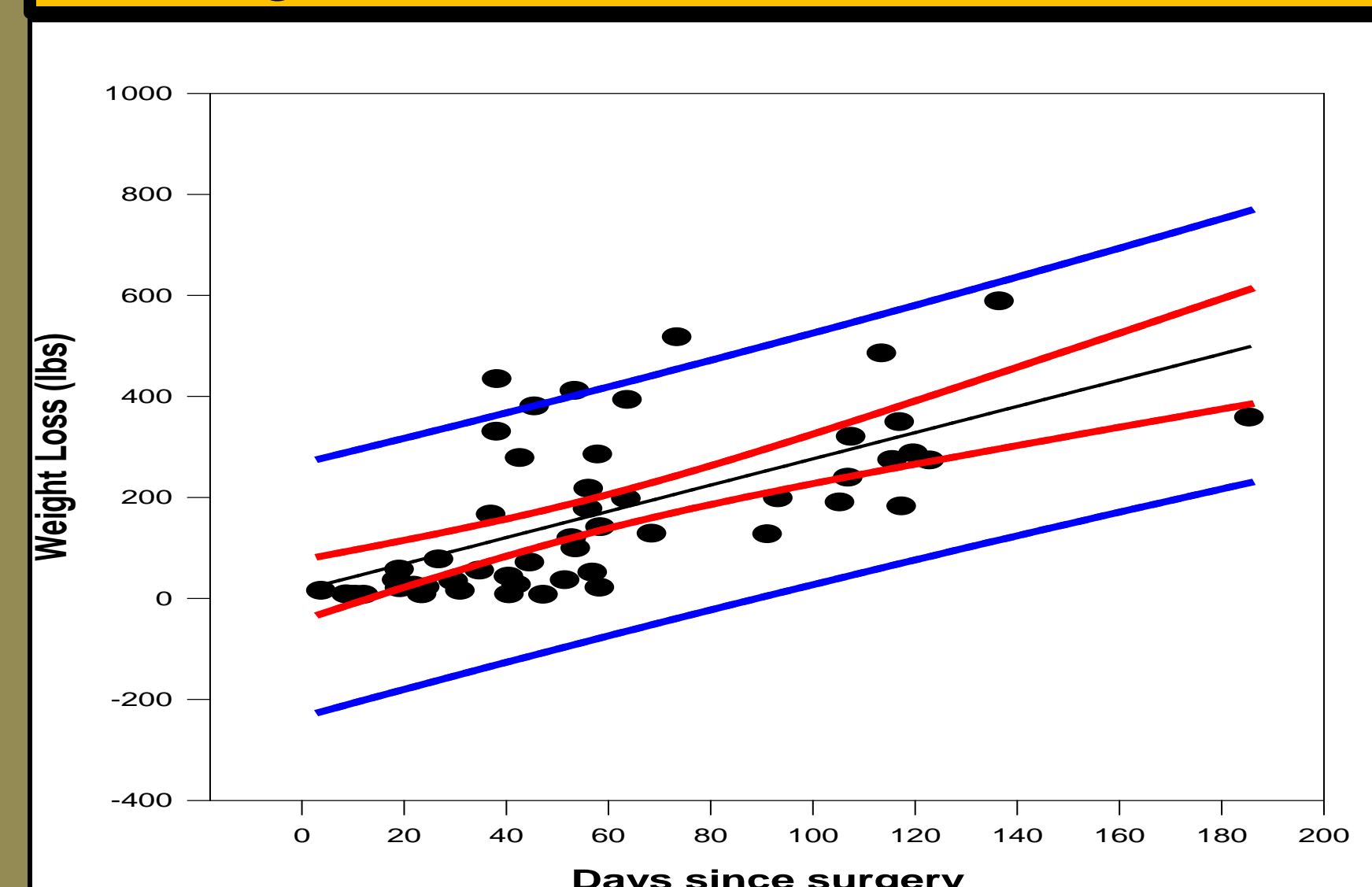
## 5. Average excess BMI loss percentage



## 6. Average excess body weight loss

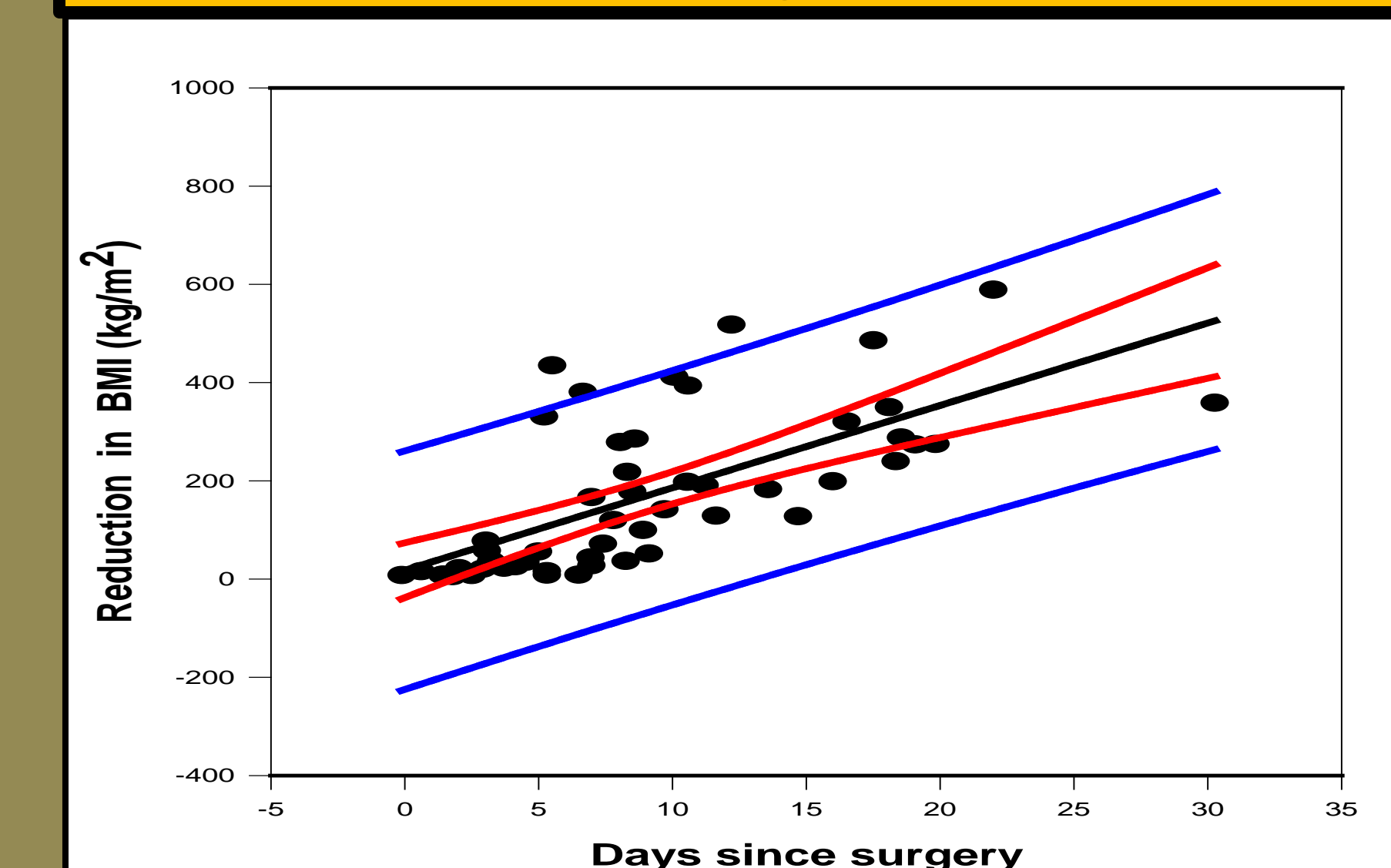


## 7. Weight loss (lbs)



R= 0.651  
Red lines are 95% confidence intervals of the model  
Blue lines are 95% confidence prediction intervals of the model

## 8. Reduction in BMI (kg/m<sup>2</sup>)



R= 0.679  
Red lines are 95% confidence intervals of the model  
Blue lines are 95% confidence prediction intervals of the model

## Conclusion

- Laparoscopic revision from Gastric Bypass to Duodenal switch shows effective weight loss results in short term follow up of 1 year.
- There was no dumping syndrome and no incidents of diarrhea in this limited sample size.
- While follow up is short there were no micro nutrient deficiencies in this cohort.
- Future analysis is needed on long term follow up, evaluation of quality of life and risk of micronutrient deficiency.