





Effect of Limb Length on Weight Loss Outcomes following Biliopancreatic Diversion with Duodenal Switch: A Multi-Centered Study

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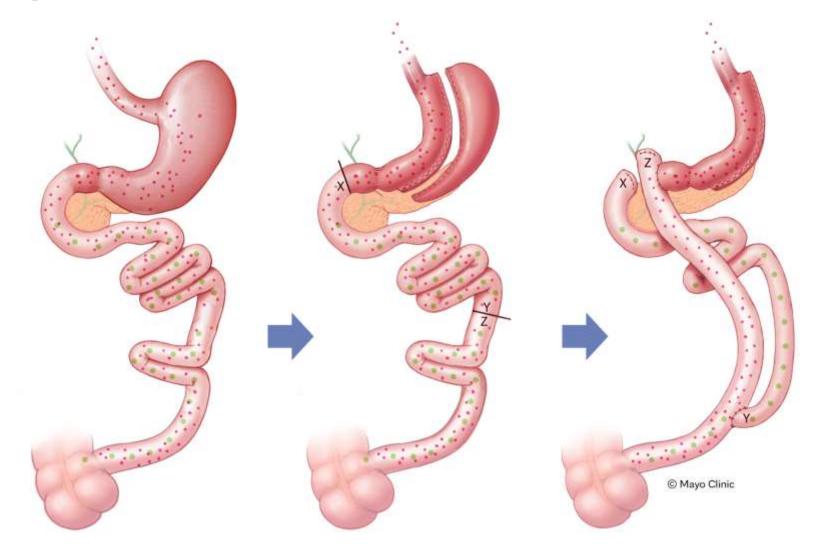
Disclosures

The authors have no potential conflict of interest to report





Background







Background

Biliopancreatic diversion: the effectiveness of duodenal switch and its limitations

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PMID: 24639868 PMCID: PMC3929999 DOI: 10.1155/2013/974762

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The Impact of Biliopancreatic Diversion with Duodenal Switch (BPD/DS) Over 9 Years

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PMID: 27686233 DOI: 10.1007/s11695-016-2371-1





Hypothesis and Aims



Question:

 Does Limb length affect weight loss outcomes following BPD/DS?

Aims:

 Our study aims to evaluate and compare the impact of different BPD/DS limb lengths on weight loss outcomes.





Methods

- Multicentered retrospective cohort study.
- Inclusion Criteria:
 - 1. Adult patients
 - 2. Underwent BPD/DS as a primary procedure from 2008-2022
- Exclusion Criteria:
 - 1. No follow-up data
 - 2. Pediatric population





Results: Demographics and Baseline Characteristics

Demographic information	All patients		
N	720		
Age, years (SD)	41.7 (9.7)		
Sex, Female (%)	526 (73.1)		
Race, White (%)	478 (66.4)		
Preop BMI, kg/m ² (SD)	55.0 (8.6)		
Obesity-related Comorbidities			
GERD (%)	159 (22.1)		
Hypertension (%)	367 (51.0)		
Hyperlipidemia (%)	281 (39.0)		
Sleep Apnea (%)	357 (49.6)		
T2DM (%)	223 (31.0)		





Results: Weight loss Outcomes

%TWL	CC/RL Length			<i>p</i> -value
Mean (SD)	100/150 (N=60)	125/125 (N= 596)	150/150 (N=64)	p value
At 6 months	30.3 (6.4)	23.7 (5.5)	26.4 (5.9)	<.001ª
At 12 months	39.7 (8.4)	35.4 (8.1)	34.4 (7.9)	<.001ª
At 24 months	44.1 (10.3)	40.3 (10.6)	35.9 (10.8)	<.001ª

^aOne-way ANOVA

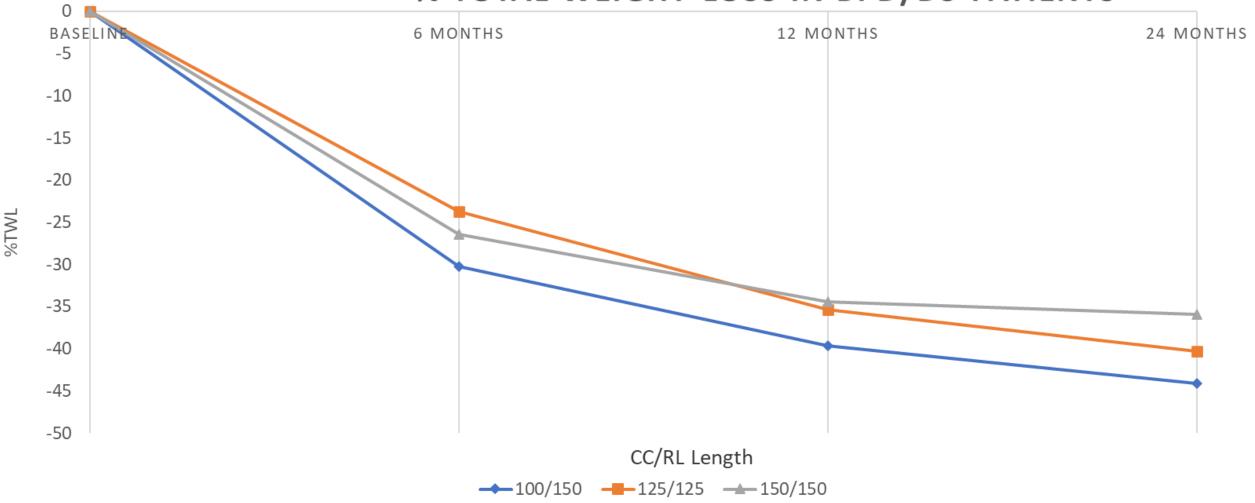
CC, common channel; RL, Roux Limb; %TWL, Percent Total Weight Loss





Results: Weight loss Outcomes









Results: Predictors of Weight Loss at 24-months

Covariates	
Common Channel length	
Total alimentary limb length	X
Roux Limb Length	X
Diabetes Mellitus	X
Age	X
Gender	





Conclusion

• For every 10 cm increase in CC length, there was significant decrease in %TWL by 1.84% at 24 months.

 A shorter CC length of 100-cm is associated with greater weight loss in patients undergoing BPD-DS.





Thank you for your attention! Questions or Comments?