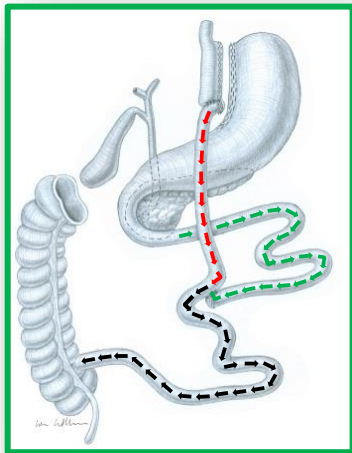
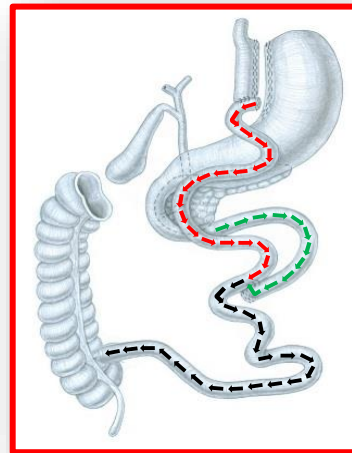


# SLIM-Trial 1-Year Results: Limb Lengths in Gastric Bypass



VS

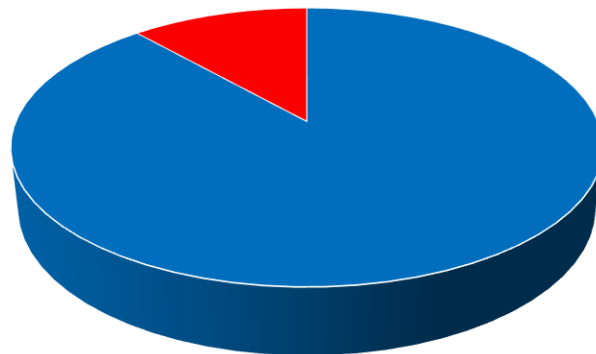


Prof. Ralph Peterli  
Department of Clinical Research University of Basel, Switzerland  
Senior Consultant Visceral Surgery: ViszeraMed Zürich & Spital Männedorf

# DISCLOSURES

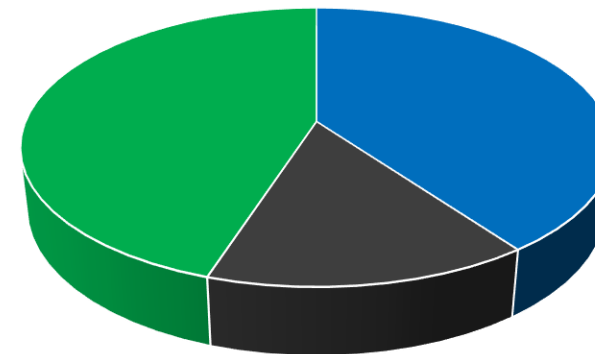
- Research grants: Swiss National Science Foundation, Johnson & Johnson, Hirzbrunnen Foundation  
NovoNordisk, UKBB, Novartis
- Lecture/consulting fees: Johnson & Johnson, Viatris, Falk Foundation, NovoNordisk, Lilly, Medtronic
- Case mix disclosure

Primary Procedures



■ RYGB ■ Sleeve

Revisional Procedures



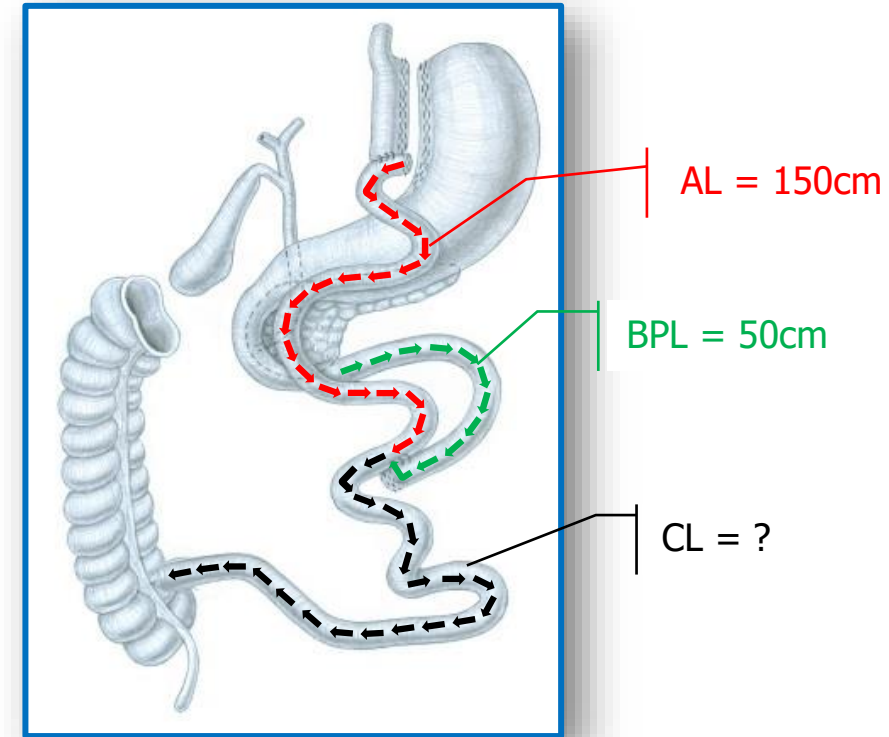
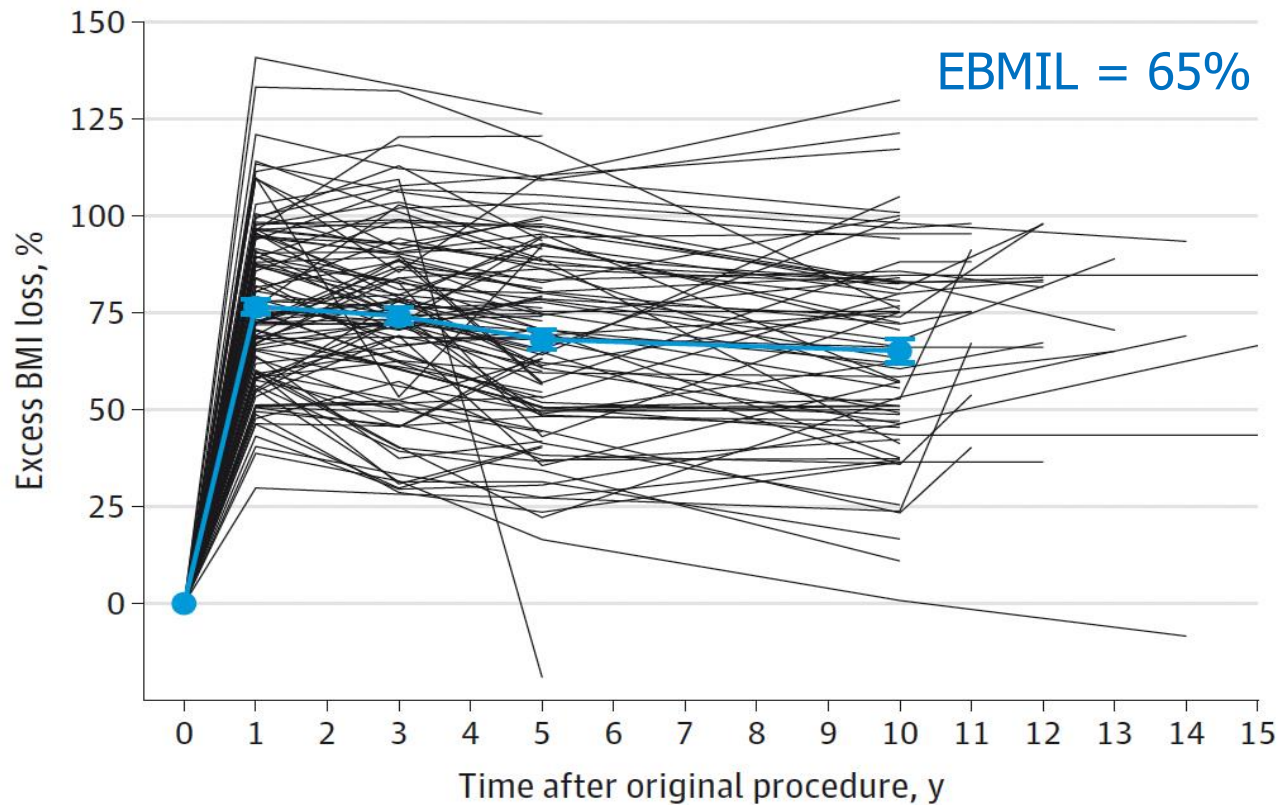
■ RYGB ■ BPD / SADI ■ Other

# Variety of Weight loss Results

in highly standardized Gastric Bypass

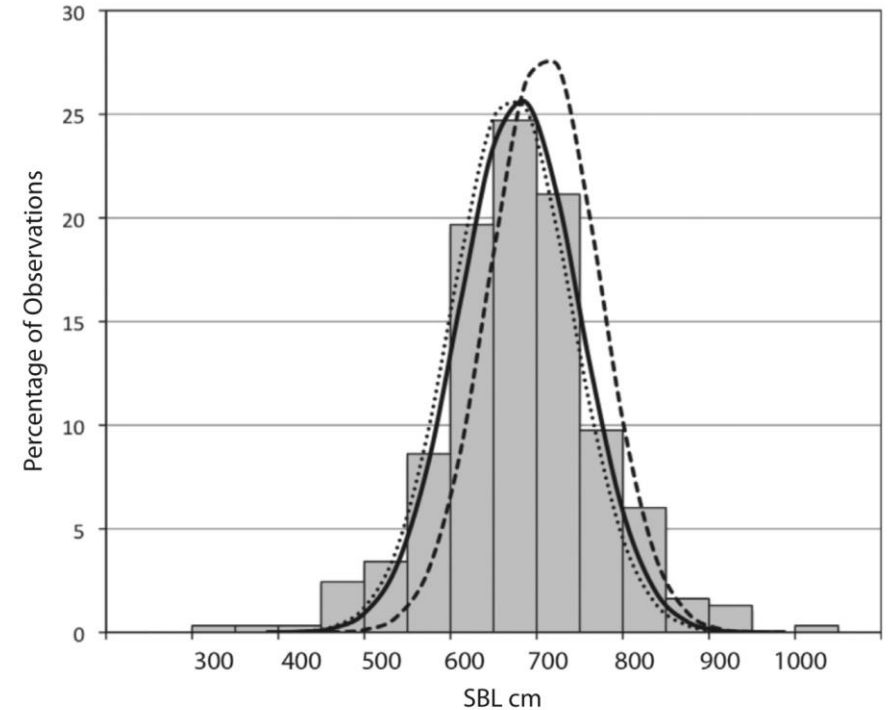
- SM-BOSS → Sleeve vs Gastric Bypass (110 vs 107 patients) > 10y

**C** Excess BMI loss after Roux-en-Y gastric bypass: ITT population



# Variety of Total Small Bowel Length

- N = 443:  $690 \pm 94\text{cm}$  (350 – 1050cm) \*
  - Correlates with height (not weight)
  - Male > female (730cm vs 680cm,  $p < 0.0001$ )
  - Depends on measuring method:
    - Open: with/without ruler
    - Laparoscopy: measure band, marked forceps (5 or 10cm)
    - With/without tension
- Personal experience
  - Open BPD-DS (10cm with ruler)
    - N=120
    - 600cm (350 – 1300cm)
  - LRYGB, LBPD-DS etc.
    - Laparoscopy: 5cm steps  
= best reproducibility



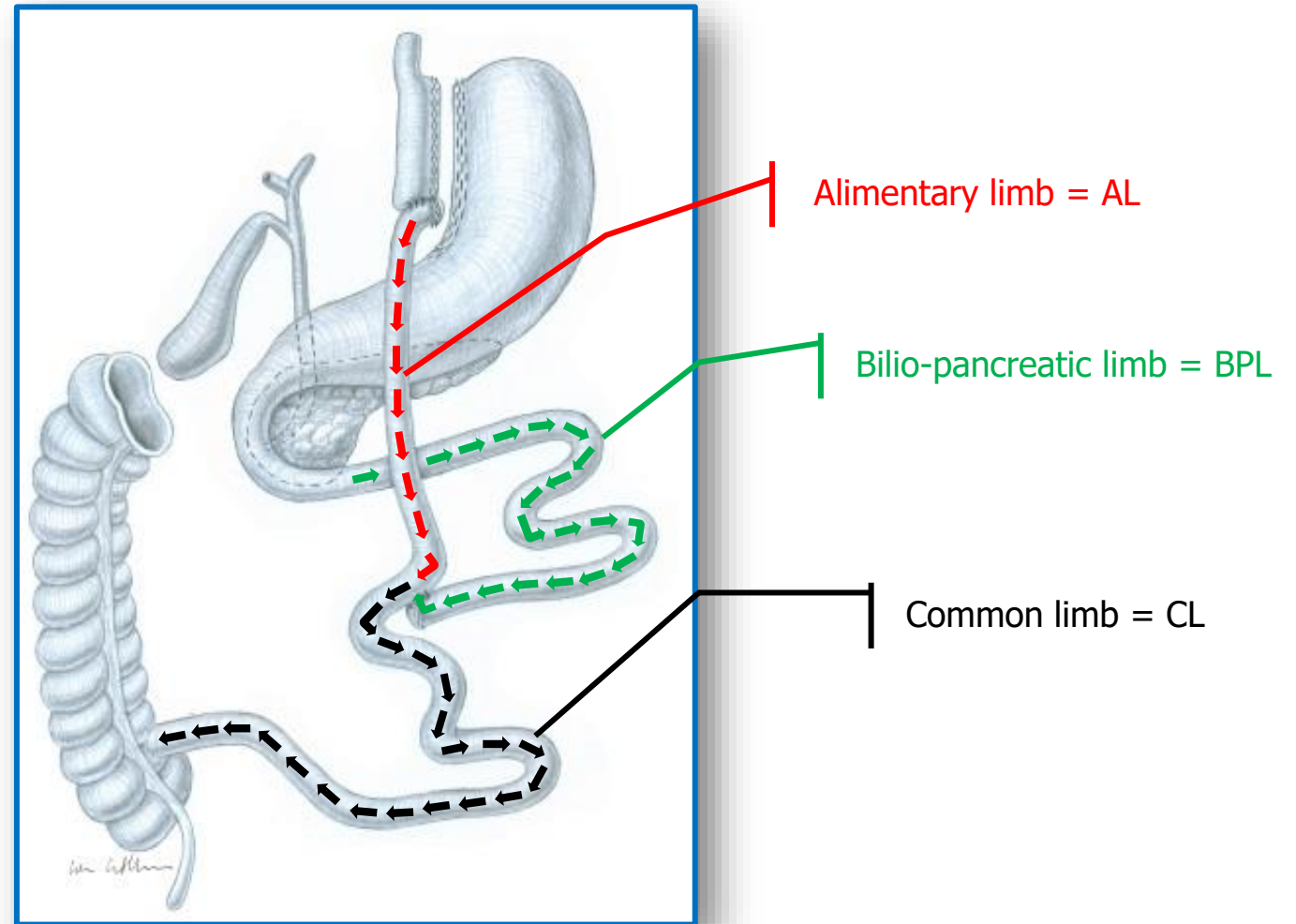
# Possibilities to increase effectivity in RYGB

1. Lengthening of **alimentary limb (AL)**
2. Shortening of common limb (CL)
3. Lengthening of **bilio-pancreatic limb (BPL)**

## The length of one limb:

- Influences the length of the other(s)
- Its effect cannot be analysed without knowledge of the other two
- Consequence: Total bowel length has to be known

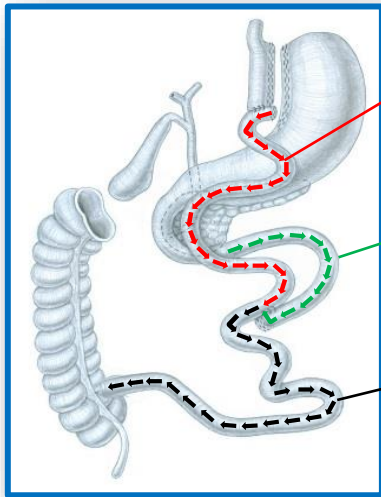
**AL** & **CL** = total alimentary limb (TAL)



# 1. Increasing the length of the **alimentary limb (AL)** in RYGB

DUCATI Trial: RCT, N=444

Standard-LRYGB

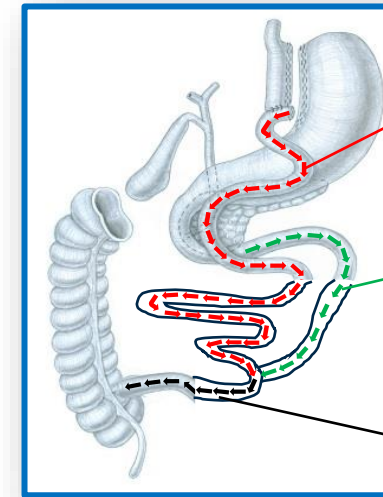


AL = 150 cm

BPL = 60 cm

CL = 383 (145-775) cm

VLRL-LRYGB



AL = 422 (210-730) cm

BPL = 60 cm

CL = 100 cm

- % EWL 3y 77%
- T2DM remission 49%
- Complications 9%
  - Malabsorption 0.9%

85% ( $p=0.04$ )

72% ( $p=0.04$ )

16%

3.6% ( $p=0.056$ )



bowel adjustment

- Conclusion: Lengthening of **AL** does (not) work  
Risk of liver damage ↑ *Moolenaar L, J Clin Gastroenterol 2022*

# 1. Total alimentary limb (TAL = AL & CL)

- Metaanalysis
  - N = 21 trials (12 primary RYGB, 2 RCT)
  - >4760 pts
- Results:
  - Better weight loss if TAL leads to longer BPL
  - Shorter CL:
    - More deficiencies
    - Lengthening in 3 – 64% due to malabsorption
- Conclusion:
  - In primary RYGB:
    - TAL = 400cm and CL 200cm = safe & effective
  - In revisional RYGB:
    - TAL may be shorter (min 300cm?)

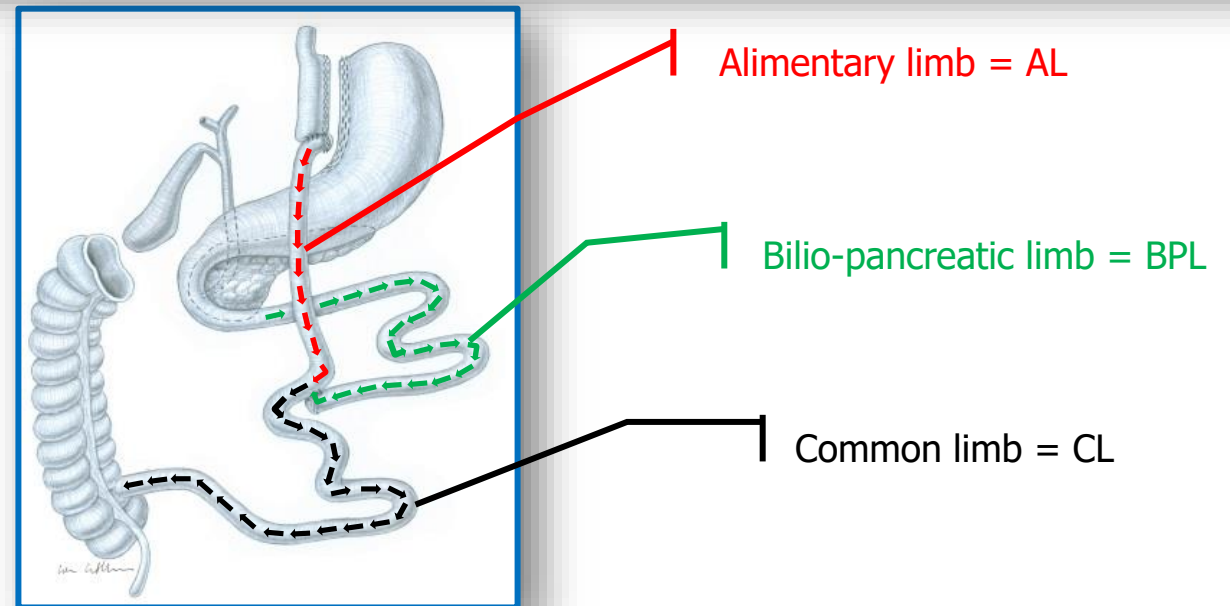
Surgery for Obesity and Related Diseases 18 (2022) 555–564

## The role of total alimentary limb length in Roux-en-Y gastric bypass: a systematic review

Alice Wang, M.D., M.H.S.<sup>a</sup>, Lauren Poliakin, M.D.<sup>a</sup>, Naresh Sundaresan, M.D.<sup>a</sup>, Vilok Vijayanagar, D.O.<sup>b</sup>, Alexander Abdurakhmanov, M.D.<sup>a</sup>, Kyle J. Thompson, Ph.D.<sup>b</sup>, Iain H. Mckillop, Ph.D.<sup>b</sup>, Selwan Barbat, M.D.<sup>a</sup>, Roc Bauman, M.D.<sup>a</sup>, Keith S. Gersin, M.D.<sup>a</sup>, Timothy S. Kuwada, M.D.<sup>a</sup>, Abdelrahman Nimeri, M.D., F.A.C.S., F.A.S.M.B.S.<sup>a,\*</sup>

<sup>a</sup>Atrium Health Weight Management, Section of Bariatric & Metabolic Surgery, Department of Surgery, Carolinas Medical Center, Atrium Health, Charlotte, North Carolina

<sup>b</sup>Division of Research, Department of Surgery, Carolinas Medical Center, Atrium Health, Charlotte, North Carolina



## 2. Changing Common limb length

- Metaanalysis (N = 13 trials, 1934 pts)
- CL 75cm – 600cm
- Results:
  - $\Delta$  in CL does not change weight loss
  - Shorter CL: better metabolic effect
  - But more deficiencies
    - Up to 48% protein deficiency in distal bypass
- Conclusion:
  - Common limb > 400cm = safe & effective
    - Reasonable weight loss
    - Positive impacts on metabolic outcomes
    - Without severe nutritional deficiencies
  - Surgeons must consider
    - Measuring TBL in all/selected patients
    - CL in revisional cases

### REVIEW ARTICLE

Accepted for publication 27 November 2022.

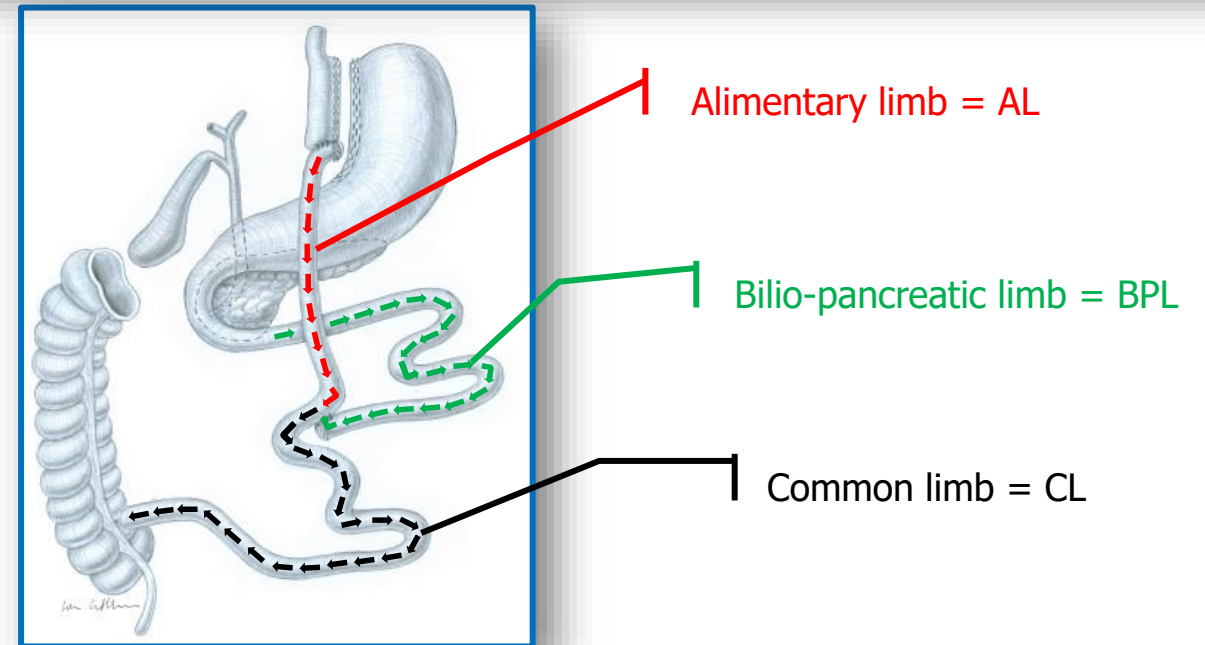
### Optimal common limb length in Roux-en-Y gastric bypass surgery: is it important for an ideal outcome? – a systematic review

Amy Hort<sup>1</sup>,<sup>2</sup> Qiyue Cheng,<sup>2</sup> Tia Morosin<sup>1</sup>,<sup>3</sup> Peter Yoon<sup>1</sup> and Michael Talbot<sup>2</sup>

<sup>1</sup>Department of Surgery, Westmead Hospital, Sydney, New South Wales, Australia

<sup>2</sup>Department of Surgery, The School of Medicine, The University of Sydney, Sydney, New South Wales, Australia and

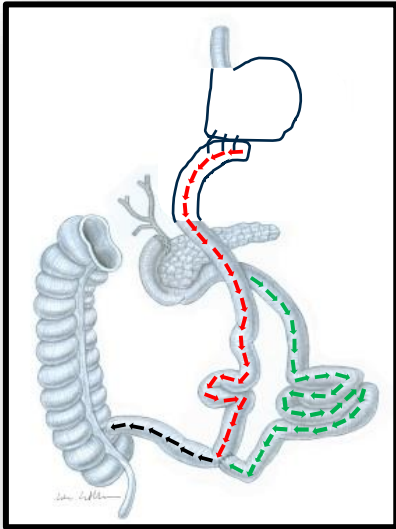
<sup>3</sup>UNSW St George and Sutherland Clinical School, Sydney, New South Wales, Australia



# 3. Increasing the BPL

## Bilio-pancreatic Diversion

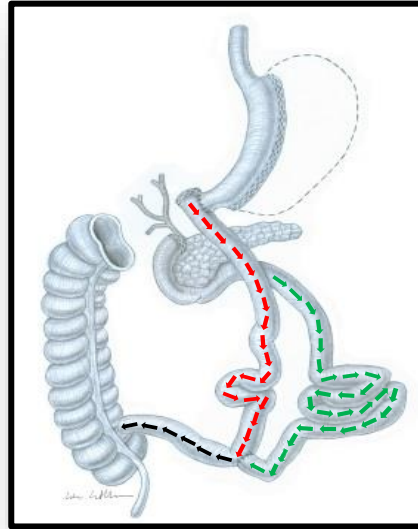
- Maximum weight loss (78% excess BMI loss >10 y) \*
- Highest rate of diabetes remission (95%) \*



### Scopinaro

- $BPL = TBL - AL (250cm)$
- CL: 50-75cm

*Scopinaro, Obes Surg & WJS 1991-2017*



### Marceau

- $BPL = TBL - 250cm$  (age >50: 350)
- CL: 100cm

*Marceau, Obes Surg 1995-2015, Peterli Obes Surg 2007*

### Hess

- $BPL = 50\% TBL$
- $AL = 40\%$ ; CL 10% (75-100cm)

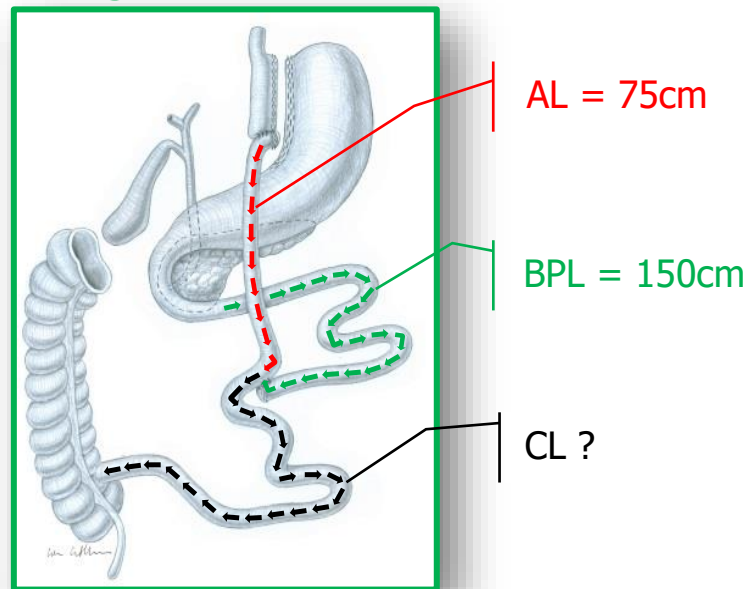
*Hess Obes Surg 2005*

# RCT #1: Long BPL vs Short BPL

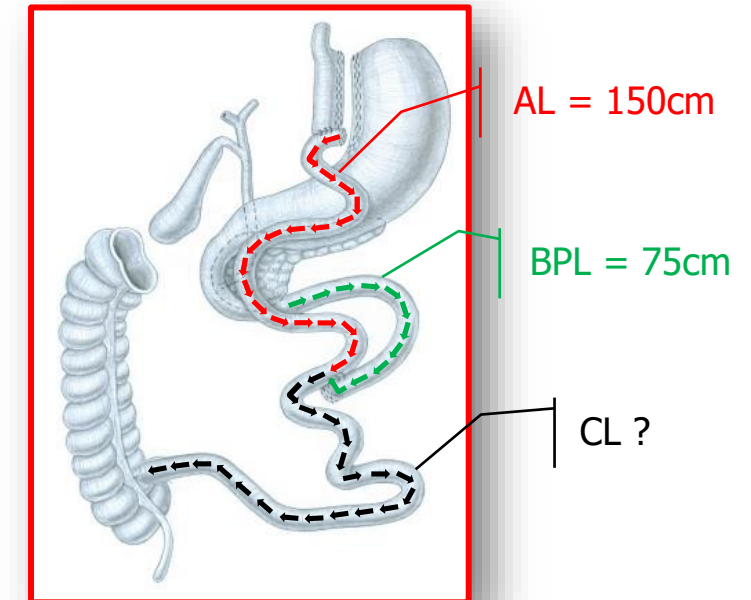
## Elegance Trial

- BMI 43 / 45
- FU 91% at 4y
- %TWL (=primary endpoint)
  - 1y 33 / 31 (p=0.042)
  - 4y 30 / 27 (p=0.15)
- %EWL:
  - 1y 81 / 71 (p=0.007)
  - 4y 72 / 64 (p<0.05)
- Co-morbidities
  - T2DM, HAT no difference
  - Dyslipidemia: 95 / 83 % (p=0.02)
- Complications
  - early: 10 / 5 % (n.s.)
  - late: 28 / 30 % (deficiencies not mentioned!)

Long BPL: n = 67



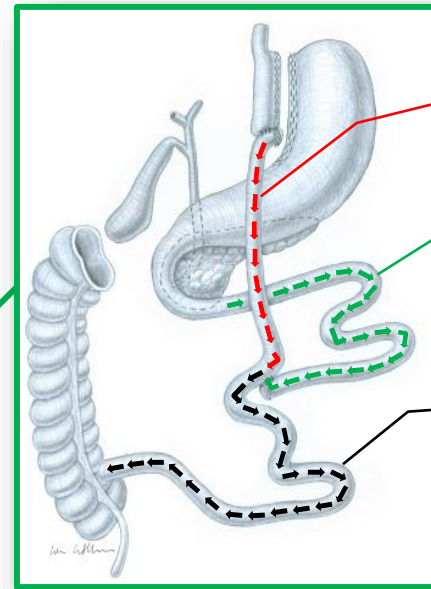
Short BPL: n = 74



# RCT #2: Long BPL vs Short BPL

- BMI 44
- FU 85% at 5y

Long BPL: n = 94

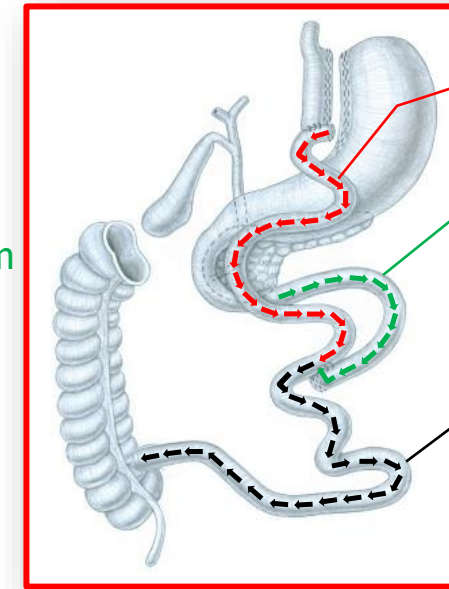


AL = 60cm

BPL = 200cm

CL ?  
+ 50cm

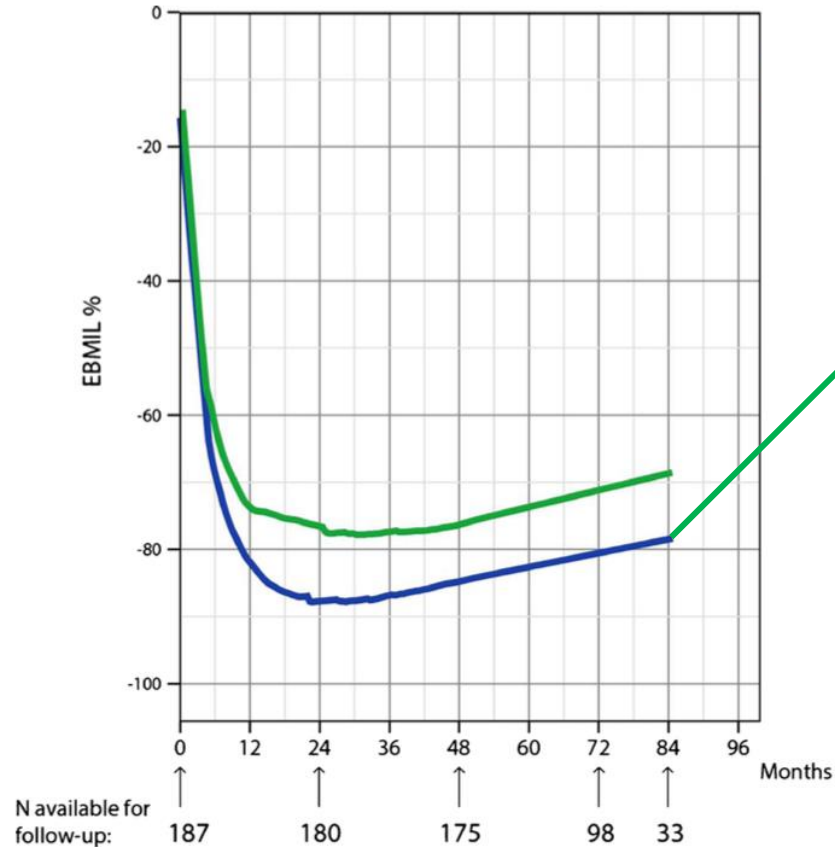
Short BPL: n = 93



AL = 150cm

BPL = 60cm

CL ?



# RCT #2: Long BPL vs Short BPL

- Co-morbidities: no difference
- Deficiencies:

**Table 4** Nutritional parameters outside reference values, number of patients (%)

	Before surgery	3 to 9 years after surgery ( <i>n</i> = 177), median follow-up 71.8 months (36–93)		<i>p</i> Value
	All patients ( <i>n</i> = 187)	Long BP-limb ( <i>n</i> = 87)	Long A-limb ( <i>n</i> = 86)	
Albumin	7 (3.7 %)	23 (26.4 %)	18 (20.9 %)	0.394
Vitamin B-12	12 (6.4 %)	24 (26.4 %)	16 (18.6 %)	0.161
Vitamin D	57 (30.5 %)	39 (44.8 %)	18 (20.9 %)	<0.001
PTH	1 (0.5 %)	15 (17.2 %)	3 (3.5 %)	0.003
Iron	2 (6.4 %)	32 (36.8 %)	13 (15.1 %)	<0.001
Ferritin	11 (5.9 %)	58 (66.7 %)	45 (52.3 %)	0.055
Haemoglobin	2 (1.1 %)	53 (60.9 %)	37 (43.0 %)	0.019
Iron and ferritin	0 (0 %)	20 (23.0 %)	12 (14.0 %)	0.126
Iron and ferritin and haemoglobin	0 (0 %)	15 (17.2 %)	10 (11.6 %)	0.185

Values given are number of patients and %; *p* values indicate difference in prevalence between the two arms of the study; *p* < 0.05 is taken to indicate statistical significance

# 3. Modification of BPL in RYGB

- Metaanalysis



Surgery for Obesity and Related Diseases xxx (xxxx) xxx

SURGERY FOR OBESITY  
AND RELATED DISEASES

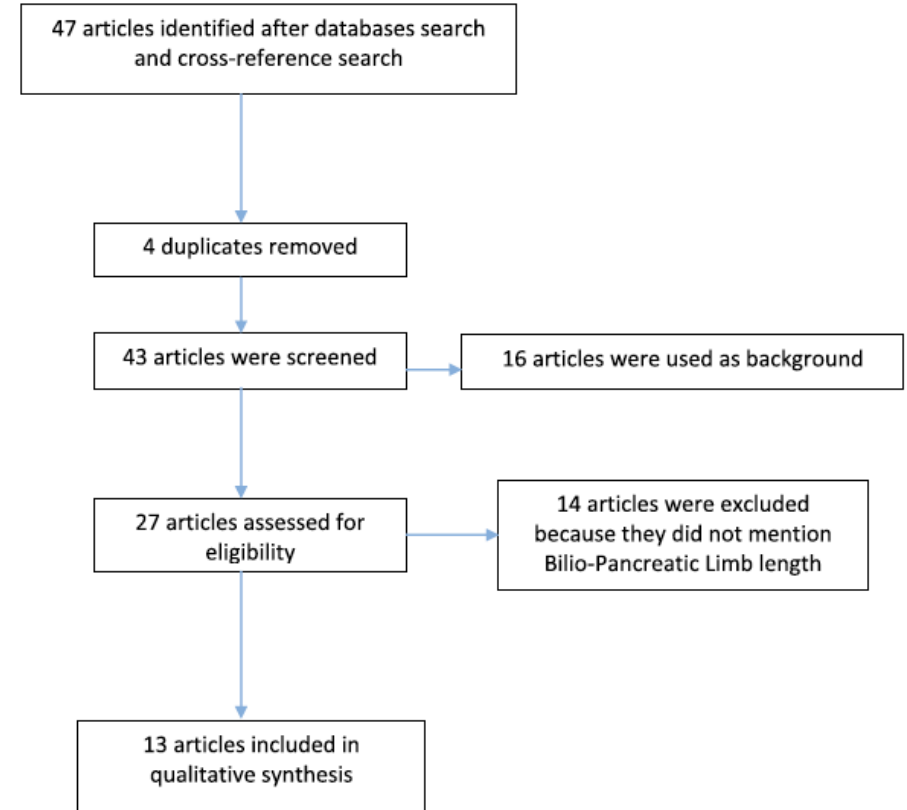
Original article

## The importance of the biliopancreatic limb length in gastric bypass: A systematic review

Luis F. Zorrilla-Nunez, M.D., Anthony Campbell, M.S., Giulio Giambartolomei, M.D., Emanuele Lo Menzo, M.D., Ph.D., F.A.C.S., F.A.S.M.B.S., Samuel Szomstein, M.D., F.A.C.S., F.A.S.M.B.S., Raul J. Rosenthal, M.D., F.A.C.S., F.A.S.M.B.S.\*

*The Bariatric & Metabolic Institute, Section of Minimally Invasive Surgery, Cleveland Clinic Florida, Weston, Florida*

Received 30 May 2018; received in revised form 26 September 2018; accepted 15 October 2018; Available online xxx



### 3. Modification of BPL in RYGB

- Weight loss and diabetes remission

Authors	Weight Loss Short Limb	Weight Loss Long Limb	Diabetes Short Limb	Diabetes Long Limb	Follow-Up, mo
Brolin et al. [14]	BMI 63.4 to >43	BMI 61.6 to >37	43% resolved/47% improved	43% resolved/47% improved	48
Maclean et al. [15]	BMI 65.1 to >39.8	BMI 63.1 to >33-36	N/A	N/A	75
Feng et al. [16]	66.3% EWL	58.2% EWL	N/A	N/A	12
Inabnet et al. [17]	83% EWL	65% EWL	N/A	N/A	24
Leifsson and Gislason [18]	N/A	93% EWL	N/A	N/A	18
Pinheiro et al. [22]	70% EWL	74% EWL	98% improved	95.50% improved	48
Nora et al. [19]	N/A	69.6 EB MIL	N/A	92.6% resolved	12
<b>K. Dogan</b>	52.2% EWL	61.7% EWL	N/A	N/A	6
Nergaard et al. [20]	67.1% EB MIL	78.4% EB MIL	74% resolved No difference	74% resolved No difference	7 yr
Homan et al. [23]	33.3%-34.1% TWL	34% TWL	N/A	N/A	12
Kaska et al. [24]	Loss of BMI -27.7%	Loss of BMI -38.4%	74.5% Hb <6	95.2% Hb <6	24
Ramos et al. [25]	79.9 ± 19.4% EWL	77.9 ± 21.6% EWL	83% controlled	84% controlled	25
Guimarães et al. [21]	87.6 ± 1.21% EWL	90.7 ± 3.2% EWL	6.1 ± .1%	5.92 ± 0.2%	26

EBMIL = excess body mass index loss; EWL = excess weight loss; BMI = body mass index; TWL = total weight loss; Hb = hemoglobin A1C; N/A = not applicable.

### 3. Modification of BPL in RYGB

- Weight loss and diabetes remission

Authors	Weight Loss Short Limb	Weight Loss Long Limb	Diabetes Short Limb	Diabetes Long Limb	Follow-Up, mo
Brolin et al. [14]	BMI 63.4 to >43	BMI 61.6 to >37	43% resolved	55% resolved/47% improved	48
Maclean et al. [15]	BMI 65.1 to >39.8	BMI 63.1 to >33-36	N/A	N/A	75
Feng et al. [16]	66.3% EWL	58.2% EWL	N/A	N/A	12
Inabnet et al. [17]	83% EWL	65% EWL	N/A	N/A	24
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<b>K. Dogan</b>	52.2% EWL	52.2% EWL	N/A	N/A	6
Nergaard et al. [20]	67% EWL	78.4% EB MIL	74% resolved	No difference	7 yr
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No trial measured total bowel length

EBMIL = excess body mass index loss; EWL = excess weight loss; BMI = body mass index; TWL = total weight loss; Hb = hemoglobin A1C; N/A = not applicable.

# Dutch registry Trial

## Modification of **BPL** in RYGB

- N > 5000
- PS matching:
  - Age
  - BMI
  - Sex
  - ASA-score
  - Comorbidities

- Results 5y:

\* 1y: GERD better with long AL

- No information on:
  - Nutritional issues

**Table 2** Primary and secondary outcomes for long and short BPL at 5 years in matched patients

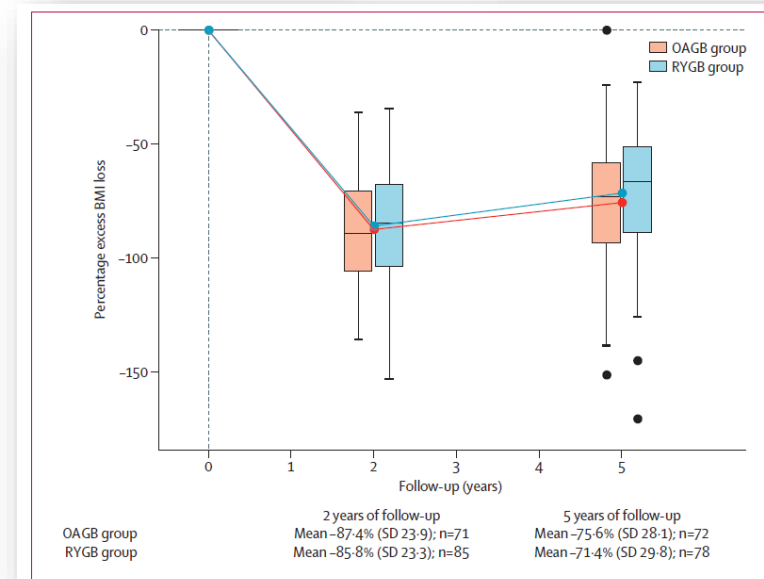
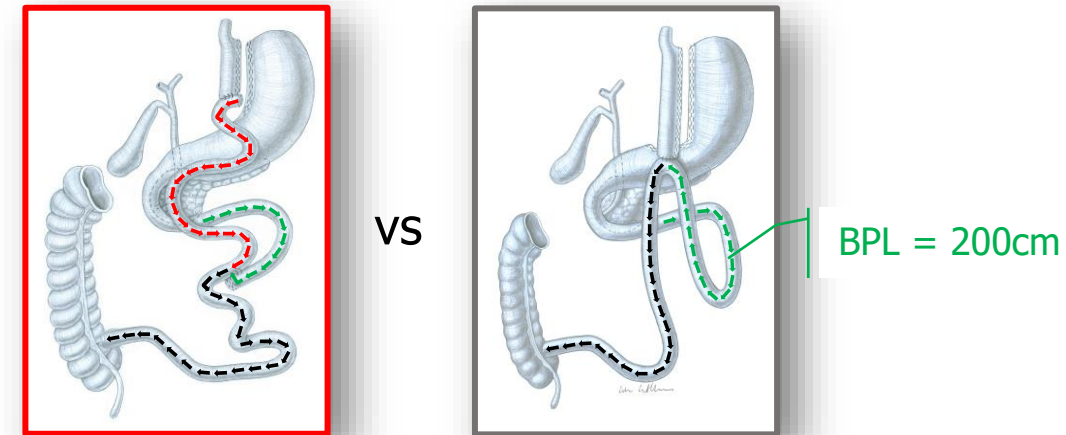
Weight loss outcomes	Weight loss at 5 years N= 2,528		OR (95% CI)	$\beta$ (95% CI)	P-value
	Short BPL (< 100 cm) N= 1,264	Long BPL ( $\geq$ 100 cm) N= 1,264			
$\geq$ 25% TWL (yes/ no, %)	63.9	67.9	1.19 (1.01 – 1.41)		0.04
%TWL (%)	28.4	29.7		1.26 (0.53 – 1.99)	<0.001
%EWL (%)	69.9	73.2		3.29 (1.45 – 5.13)	<0.001
$\Delta$ BMI (kg/m <sup>2</sup> )	12.5	13.1		0.55 (0.19 – 0.91)	0.003
Comorbidity	Improvement at 5 years (%)				
	n	Short BPL (< 100 cm)	Long BPL ( $\geq$ 100 cm)		
Diabetes mellitus	659	81.8	90.4	2.17 (1.31 – 3.60)	0.002
Hypertension	1,059	72.5	79.3	1.45 (1.06 – 1.99)	0.02
Dyslipidemia	578	73.6	74.2	1.02 (0.66 – 1.56)	0.94
OSAS	423	85.4	92.1	2.00 (0.94 – 4.26)	0.07
GERD	315	90.0	78.6	0.37 (0.13 – 1.12)	0.08
Musculoskeletal pain	1,425	60.3	58.1	0.92 (0.66 – 1.27)	0.60

# Bilio-pancreatic limb length in OAGB

## Efficacy and safety of one anastomosis gastric bypass versus Roux-en-Y gastric bypass at 5 years (YOMEGA): a prospective, open-label, non-inferiority, randomised extension study

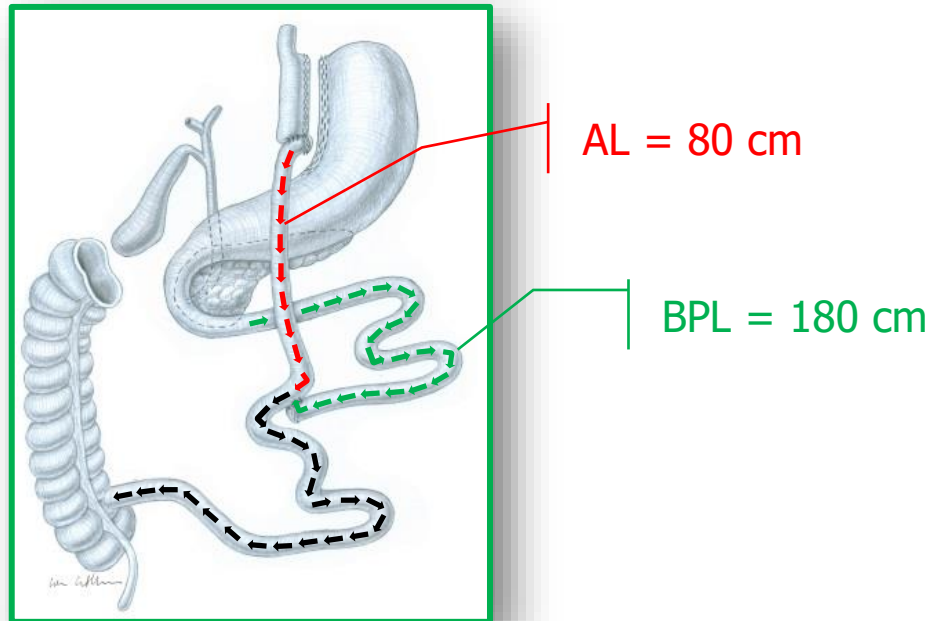
Maud Robert, Tigran Poghosyan, Delphine Maucort-Boulch, Alexandre Filippello, Robert Caiazzo, Adrien Sterkers, Lita Khamphommala, Fabian Reche, Vincent Malherbe, Adriana Torcivia, Toufic Saber, Dominique Delaunay, Carole Langlois-Jacques, Augustin Suffisseau, Sylvie Bin, Emmanuel Disse, François Pattou

- Design:
  - Multicentre RCT, non inferiority
  - Primary endpoint: % excess BMI loss
  - 127 OAGB (200cm BPL) vs 121 RYGB (150cm AL, 50cm BPL)
- Results: (pp population)
  - FU rate 68%
  - % excess BMI loss: 75.6 vs 71.4
  - GERD: 41% vs 18% (6/127 conversion to RYGB)
  - Co-morbidities: no difference
  - Nutritional status no difference (at 2y FU: OAGB more SAE)

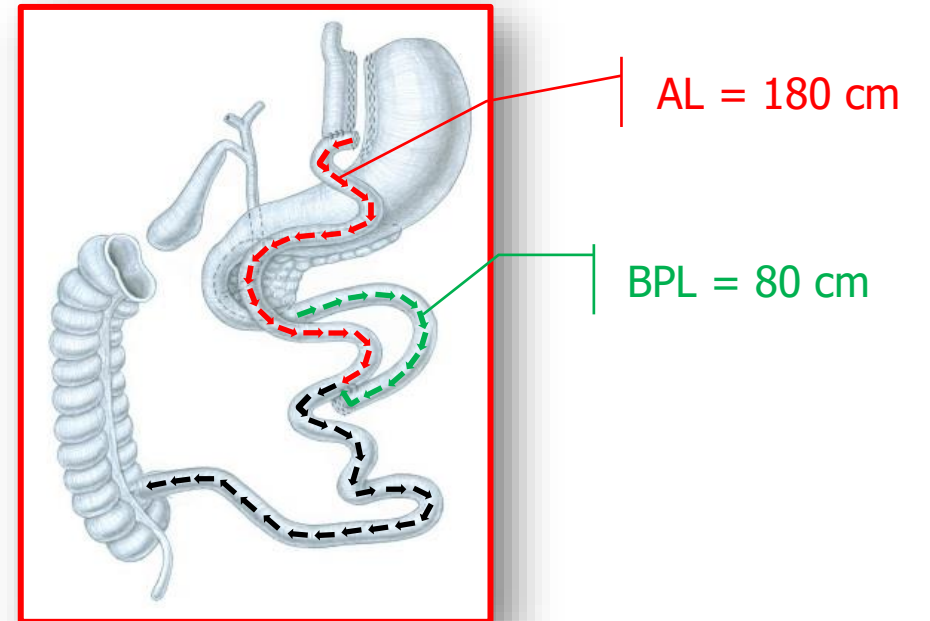


# Swiss Multicenter RCT on Different Limb Lengths in Gastric Bypass Surgery (SLIM)

Long BPL RYGB



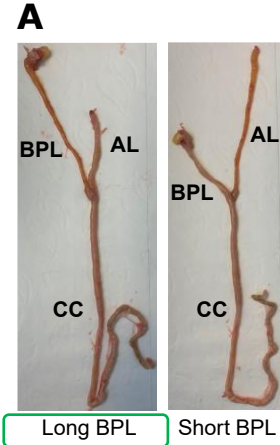
Short BPL RYGB



# Mouse Model:

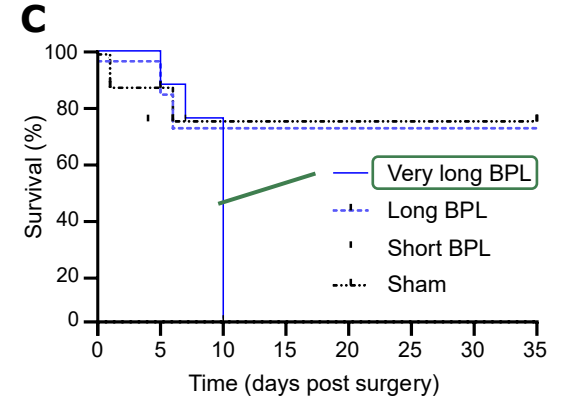
- Groups

- Sham
- Short BPL
- Long BPL
- Very long BPL

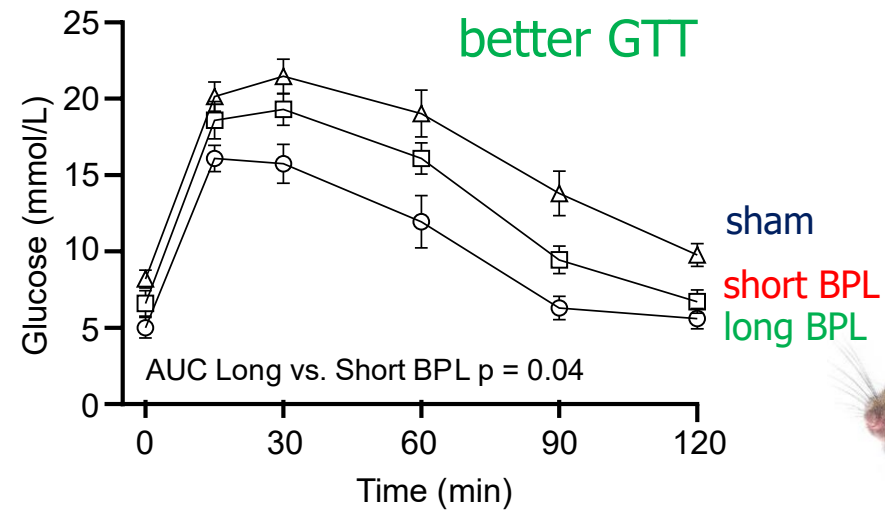
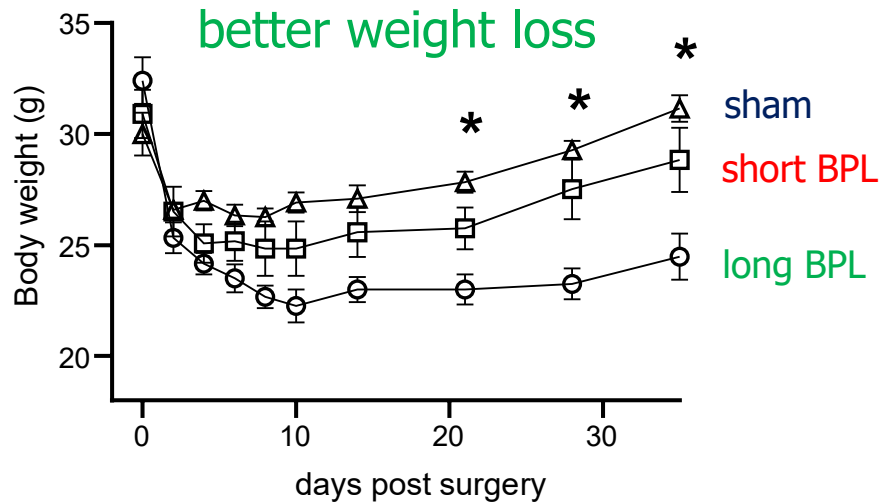


## longer BPL

- Very long BPL:
- Starvation



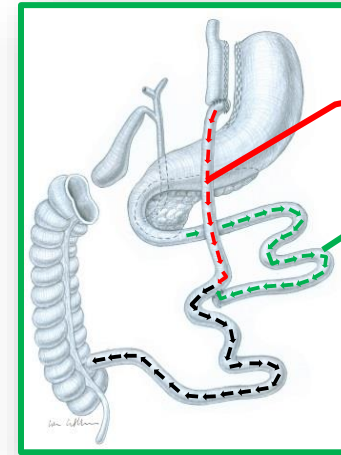
- Long BPL:



# Swiss Multicenter RCT on Different Limb Lengths in Gastric Bypass Surgery (SLIM)

- RCT
  - 15 Swiss centers & Turku University, Finland
  - N = 800
  - Double blinded (patient & observer)
  - Total bowel length measured
  - Recruitment of main trial closed Jan.15, 2024
- Outcomes:
  - Composite primary outcome:
    - % weight loss (superiority) & deficiency rate (non-inferiority) at 5 y
  - Secondary outcomes:
    - Effectivity (Remission of comorbidities, QoL)
    - Safety
    - Influence of all limbs on all outcomes in subgroup analysis
    - Part II (Clarunis) impact on body composition and bone metabolism
    - Part III (Clarunis, Zürich) mechanistic studies
    - .....

## Long BPL RYGB

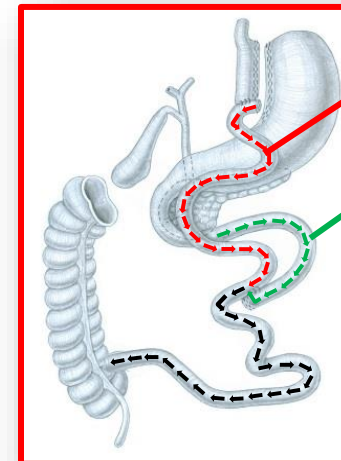


AL = 80 cm

BPL = 180 cm

mean CL = CL

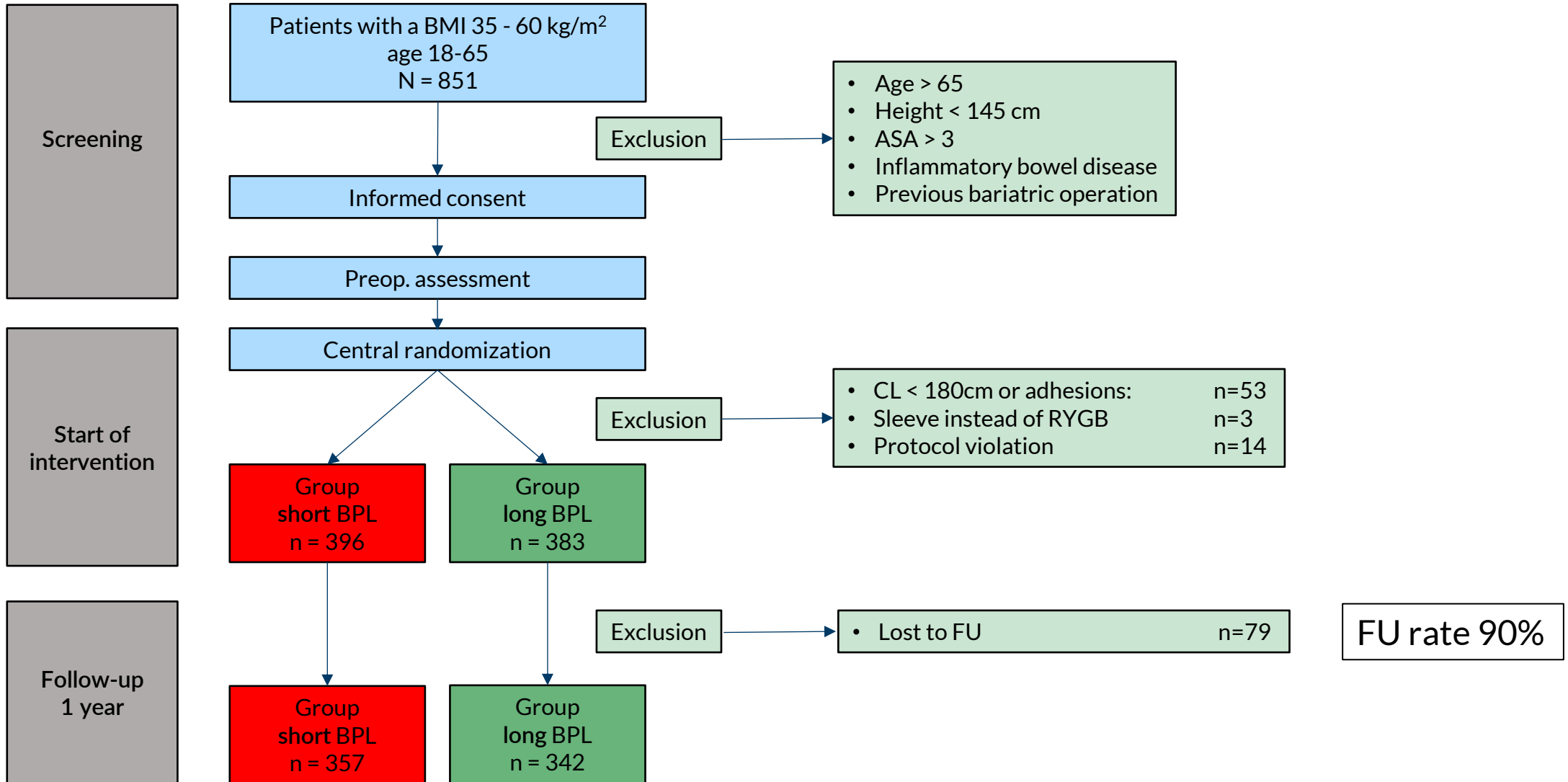
## Short BPL RYGB



AL = 180 cm

BPL = 80 cm

# Study Flow Chart



# SLIM Trial

## Baseline Characteristics

	Short BPL (n=396)	Long BPL (n=383)
Female (%)	74	70
Age (y)	41.4 ± 11.6	41.3 ± 10.5
Weight	120.3 ± 20.0	119.5 ± 18.2
BMI (kg/m <sup>2</sup> )	42.7 ± 5.1	42.3 ± 5.0
Waist circumference (cm)	123.3 ± 15.4	123.8 ± 14.5
T2 Diabetes (n, %)	57 (14.4)	77 (22.8)
• Insulin dependent	(3.6)	(3.9)
Dyslipidemia	228 (58.3)	224 (58.8)
Hypertension	168 (42.2)	153 (39.9)
OSAS	145 (37.0)	142 (37.3)
GERD	178 (44.9)	173 (45.2)

# SLIM Trial

## Intraoperative Parameters

	Short BPL (n=396)	Long BPL (n=383)	p
Access (%)			ns
• Open	0	0	
• Laparoscopic	93.1	93.7	
• Robotic	6.9	6.3	
• Conversion	0	0.3	
Gastroenterostomy (%)			ns
• Hand sewn	14.2	15.5	
• Linear	46.3	44.3	
• Circular	39.5	40.2	
Roux limb (%)			ns
• Antecolic	73	73	
• Retrocolic	27	27	

# SLIM Trial

## Intraoperative Parameters

	Short BPL (n=396)	Long BPL (n=383)	p
Duration (min.)			ns
• Total	125.1 ± 34.9	130.1 ± 38.9	
• Additional operation (CE, HH repair...)	20.8 ± 19.6	20.3 ± 16.7	
• Small bowel measurement	13.8 ± 10.6	13.4 ± 8.0	
Surgeon experience (%)			ns
• Experienced	47.2	42.5	
• 51 – 100 cases	34.9	37.5	
• 0 – 50 cases	17.9	20.1	
• > 50% = teaching operations			

# SLIM Trial

## Intraoperative Parameters

- Total bowel length measurement
  - Technique:
    - Measure band: 30%
    - Marked forceps 10cm: 10%
    - Marked forceps 5cm: 60%
  - Duration: <14 min
  - Associated complications: 19/779 (2.4%)
    - 2 perforations, 17 serosal lesions
    - 12/19 (63.2%) with measure band!
  - Complete measurement:
    - Complete: 93.4%
    - Incomplete: 6.6%
  - Total small bowel length:  $653 \pm 113$  cm
    - Min 300 cm
    - Max 1050 cm



# SLIM Trial

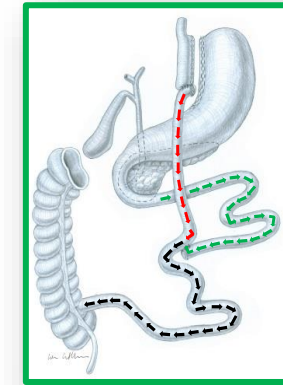
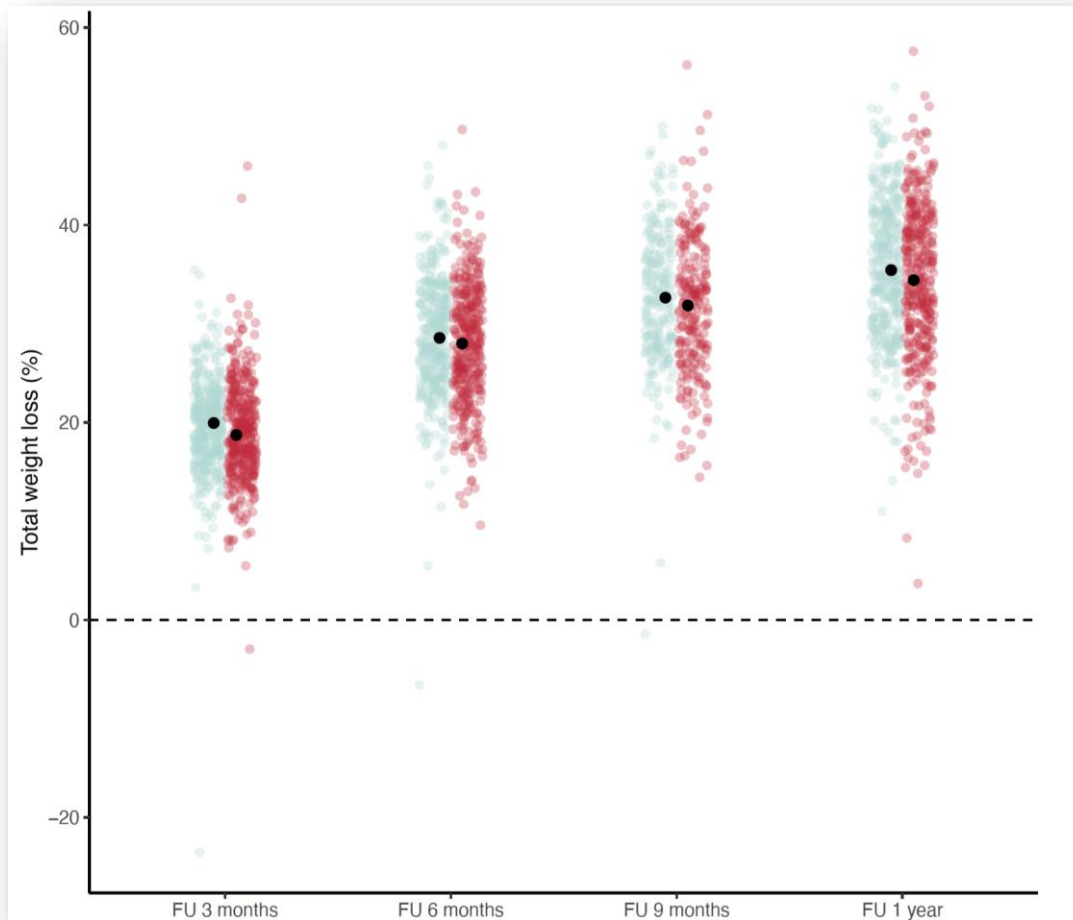
## Early Morbidity

Complications	Short BPL (n=396)	Long BPL (n=383)
• Clavien-Dindo III (n, %)	9 (2.2)	10 (2.6)
• Clavien-Dindo IV (n, %)	1 (0.2)	1 (0.2)
• Clavien-Dindo V (n, %)	0	0

# 1 Year Results

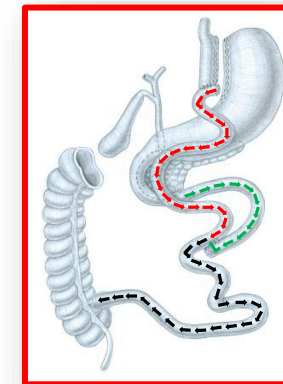
## Weight loss

- % WL



Long BPL RYGB

35.4 %  
(30.7, 41.0)



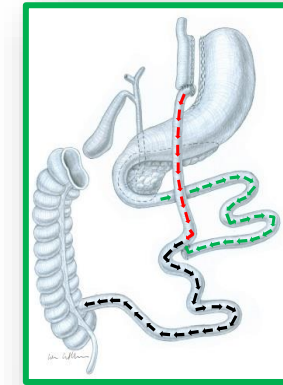
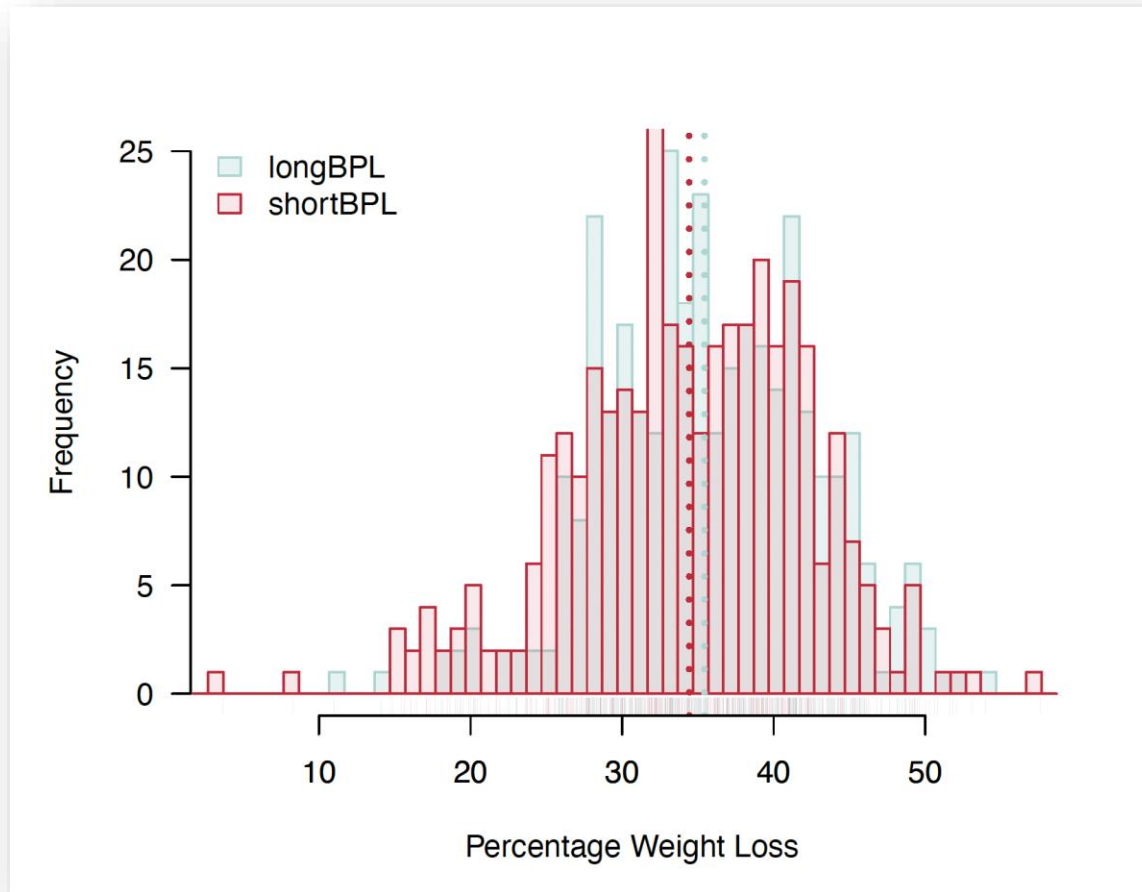
Short BPL RYGB

34.4 %  
(29.4, 39.9)

# 1 Year Results

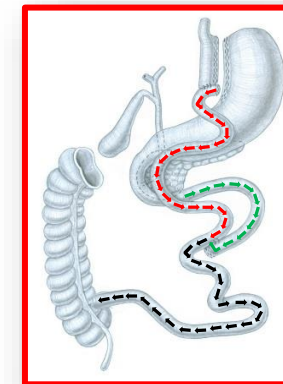
## Weight loss

- % WL



Long BPL RYGB

35.4 %  
(30.7, 41.0)



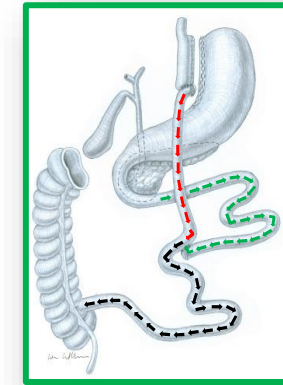
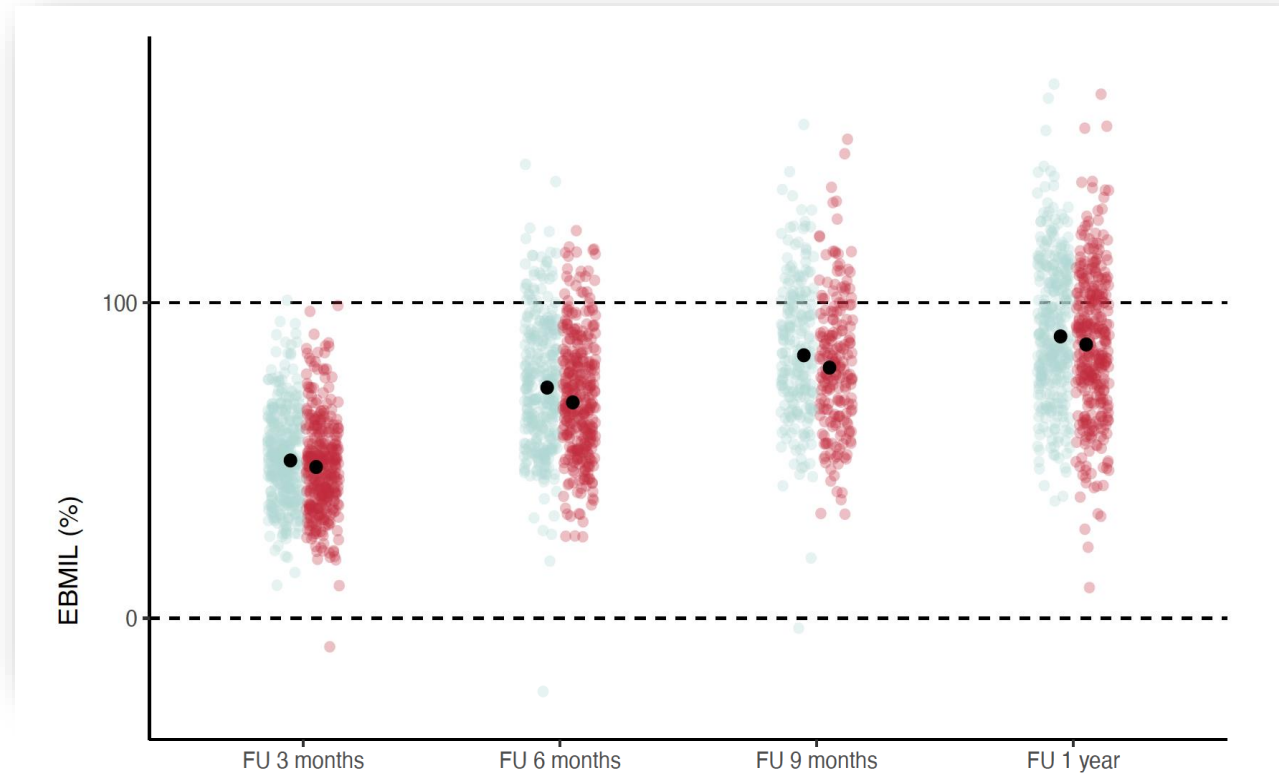
Short BPL RYGB

34.4 %  
(29.4, 39.9)

# 1 Year Results

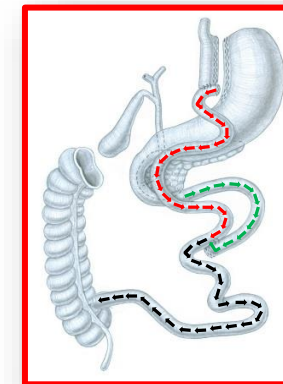
## Weight loss

- % EBMI loss



Long BPL RYGB

~ 88 %



Short BPL RYGB

~ 84 %

# 1 Year Results

## Nutritional Deficiencies

Deficiencies (%)	Short BPL (n=368)	Long BPL (n=349)
• 3 months	49.0	52.2
• 6 months	48.6	54.3
• 9 months	38.7	47.5
• 12 months	42.9	47.5
Any patient with event up to 12 months	69.8	72.0

Non-inferiority margin of 0.1 (10%)

# 1 Year Results

## Nutritional Deficiencies

Type of deficiency (%)	Short BPL (n=368)	Long BPL (n=349)
• Anemia	11.1	14.8
• Iron	17.8	20.9
• Folate	13.2	19.2
• Zinc	23.5	30.8
• Albumin	2.6	4.4
• Vit. A	16.3	22
• Vit. B1	0.8	0.8
• Vit. B6	2.6	3.8
• Vit. B12	20.2	18.1
• Vit. D	48.8	50.5

Non-inferiority margin of 0.1 (10%)

# 1 Year Results

## Morbidity

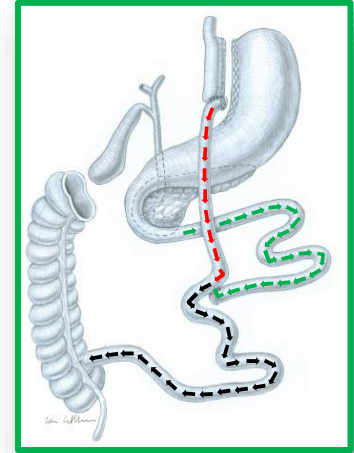
Reoperations	Short BPL (n=396)	Long BPL (n=383)
Early (<30d)	10 (2.5)	11 (2.9)
6 months	3 (0.8)	13 (3.4)
9 months	11 (2.8)	6 (1.6)
1 year	14 (3.5)	13 (3.4)
Total	38 (9.6)	43 (11)

# Summary

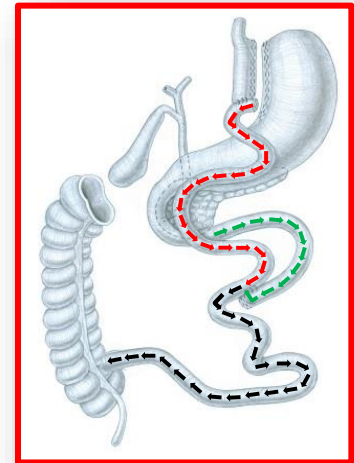
## 1-Year Results of SLIM Trial

- Total small bowel length varies
  - SLIM:  $653 \pm 113$  cm (min 300 cm, max 1050 cm)
- Small bowel measurement:
  - >93 % possible
  - Takes < 14 min.
  - 1 additional trocar
  - Low risk (2/779 perforations)
- % WL similar (35.4 % vs 34.4 %)
- Nutritional deficiencies similar (72.0 % vs 69.8 %)

Long BPL RYGB



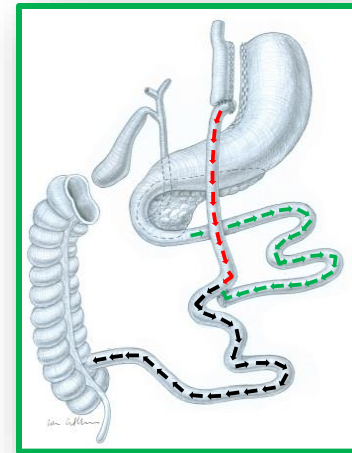
Short BPL RYGB



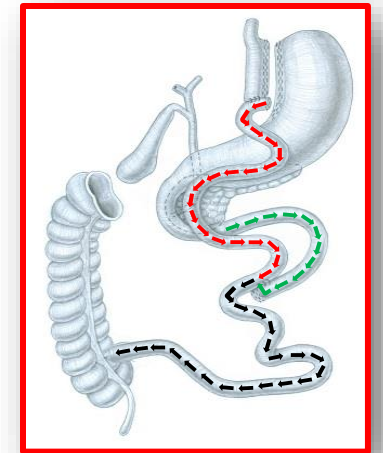
# Conclusion

## 1-Year Results of SLIM Trial

- Today: ideal length of **AL** / **BPL** and CL not known
  - Tailored to the total bowel length?
  - Tailored to initial BMI, other parameters?
  - **BPL** always 150-200 cm?
  - SLIM trial will be able to analyse all segments involved
- **Longer BPL** may lead to:
  - Improved weight loss
  - Better metabolic effect (T2DM, dyslipidemia) ?
  - **BUT: more deficiencies ?**
    - up to 1 year no



VS



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