Study	Time	Sample	Groups	Exercise Definition	Instrument of physical activity measurement	Main Results
Shada et al.,	36	n = 120	1: 0-59 min/week	Active: at least 150	Interview	EWL: 33% (group 1); 46.4% (group 2).
2013	months	years = 45.8	2: 60-149 min/week	min/week of aerobic exercise		54.1% (group 3).
		BMI = 45.9 kg⋅m ⁻²	3: >150 min/week			↑ volume = ↑ loss
		∂ =15.8%; ♀=84.2%				
		Surgery: LAGB				
Bond et al.,	12	n = 199	1: Inactive/Inactive	Inactive: <200	IPAQ-short	EWL: 63.1% (group 1). 69.8% (group
2009	months	years = 43.8	2: Active/Active	min/week of M/V PA		2). 71.5% (group 3).
		BMI = 49.8 kg·m ⁻²	3: Active/Inactive	Active: >200 min/week		Physically active = ↑ loss
		ঐ= 17%; ♀ = 83%		of M/V PA		
		Surgery: RYGB				
Livhits et al.,	30 months	n = 149	1: Low	Active: at least 150 min/week of aerobic exercise	IPAQ-short	66.7% of high activity = EWL succes
2010		years = 45.9	2: Medium			18% of medium activity = EWL succes
		BMI = $46.2 \text{ kg} \cdot \text{m}^{-2}$	3: High			15.4% of low activity = EWL succes
		ঐ= 16%; ♀ = 84%				Activity as a predictor of weight loss
		Surgery: LRYGB				succes
Larsen et al.,	34	n = 157		Not specified in the text	BAQ	Activity does not have correlation with
2006	months	years = 40				BMI reduction
		BMI = 45.5 kg·m ⁻²				
		ঐ=8%; ♀=92%				
		Surgery: LAGB				
Welch et al.,	30	n = 75		Active: at least 150	Bariatric surgery self- management	Activity as a predictor of %EWL
2011	months	years = 39		min/week of aerobic exercise		(R ² =.08)
		BMI = 49.8 kg·m ⁻²			Questionnaire PA subscale	

TABLE 1 Catalogue of Observational Study Design.

		∂= 14.7%; ♀= 85.3%			Interview	
Wolfe & Terry, 2006	12-36 months	n = 93 vears = 44.3		Not specified in the text	Interview	Activity correlate with BMI reduction (r = .36)
		BMI = 52.5 kg·m ⁻² ♂= 12.9%; ♀ = 87.1%				No differences between active and inactive (<i>p</i> > .6)
		Surgery: RYGB				
Latner et al.,	16 months	n = 65		Active: at least 150 min/week of MPA	Interview	Activity frequency correlate with %EWL (r = .345)
2004		years = 39.5			Prime-MD	
		BMI = 54.1 kg·m ⁻²			Eating Disorder Examination	
		♀ = 100%				
		Surgery: ?				
Colles et al.,	12 months	n = 129		Not specified in the text	Baecke Physical Activity Questionnaire	Activity as a predictor of %EWL (r ² = .213)
2008		years = 42.5				
		BMI = 44.3 kg·m ⁻²			Pedometer	
		ể= 20.2%; ♀ = 79.8%				
		Surgery: LAGB				
Bond et al.,	24	n = 1585	1: BMI 35-49 kg·m ²	Not specified in the text	Self-reporting	1.1 = 72.1 %EWL; 1.2 = 68.3%EWL
2004	months	years = 40.4	1.1 = active; 1.2 =			2.1 = 63.2 %EWL; 2.2 = 57.9 %EWL
		BMI = 49.8 kg·m ⁻²	inactive			Activity = increased %EWL
		ể= 17.3%; ♀ = 82.6%	2: BMI 40-70 kg·m ²			
		Surgery: ?	2.1 = active; 2.2 = inactive			
Forbush et al.,	36	n = 265	EC: Low = 0-300	Not specified in the text	Arizona Activity Frequency Questionnaire	EC: low = 79.32 %EWL. medium = 81.5
2011	months	years = 48.3	kj/day; medium = 301-3000 kj/day; high = >3000 kj/day	-		%EWL. high = 91.93 %EWL Activity: low = 78.1 %EWL. medium = 85.28 %EWL. high = 93.48 %EWL
		BMI = 61.1 kg⋅m ⁻²	Activity volume: low			More EC = more %EWL (low vs high)

		♂= 14%; ♀ = 86% Surgery: RYGB	= 0-30 min/day; medium = 30-60 min/day; high = >60 min/day			More activity volume = more %EWL (low vs high and low vs medium)
Mundi et al., 2013	12 months	n = 118	1: EWL < 50%	1: 68 min/week MPA; 40 min/week VPA 2: 150 min/week MPA; 120 min/week VPA	IPAQ-Short	Physical activity does correlate with %EWL (r = .24)
		years = 51.2	2: EWL > 50%		Baecke Physical Activity Questionnaire	
		BMI = 44.9 kg·m ⁻²				
		ể= 19.2%; ♀ = 80.8%				
		Surgery: ?				
Boddu et al.,	6	n = 125	1: High	1: 1500 MET-	GPAQ	Activity does not have correlation with
2012	months	years = ?	2: Medium 3: Low	minutes/week of VPA or 3000 MET- minutes/week of MPA		%EWL
		BMI = ?		2: at least 600 MET- minutes/week		
		্ৰ= 20%; ♀ = 80%		3: Not meet criteria for groups 1 or 2		
		Surgery: RYGB. LAGB. SG				
Livhits et al., 2011	12-72 months	n = 119	1: Weight regain	IPAQ categories: low- medium-high	IPAQ-short	Low = 18.5% no weight regain
		years = 49.7	2: Weight loss			Medium = 27.2% no weight regain
		BMI = 48.7 kg·m ⁻²				High = 54.2% no weight regain
		∂ =15.1%; ♀=84.9%				Low levels of PA predict weight regain
		Surgery: LRYGB				
Josbeno et al., 2011	24-60 months	n = 40		1: <150 min/week MVPA	Body Media Sense Wear Pro	Group 1: 52.5%EWL
		years = 50.6		2: >150 min/week MVPA		Group 2: 68.2 %EWL
		BMI = $48.8 \text{ kg} \cdot \text{m}^{-2}$				MVPA correlate with greater %EWL
		∛= 10%; ♀ = 90%				

		Surgery: RYGB				
Rosenberger et al., 2011	12 months	n = 131		Not specified in the text	GLTQ	Moderate/strenuous PA correlated with 0 /6WI ($r^{2} = 24$)
		years = 42.9				
		BMI = 51.6 kg⋅m ⁻²				
		∂ = 12%; ♀ = 88%				
		Surgery: ?				
Welch et al.,	14	n = 200		5 times/week 30-60 min	Bariatric Surgery Self- management Behaviors Questionnaire	PA as a predictor of grater weight loss $(-2 - 00)$
2008	monuns	vears = 44.9				$(r^{-} = .09)$
		$BMI = 53.5 \text{ kg} \cdot \text{m}^{-2}$				
		♂= 15%; ♀ = 85%				
		Surgery: RYGB				
Colleen &	84	n = 100		Not specified in the text	Interview	Active = 77% no weight remain
Edwards 1999	months	years = ?				
		BMI = ?				PA correlated with maintained weigth loss
		∂ = 5%; ♀ = 95%				
		Surgery: ?				
Hernández-	24-60	n = 67		At least walking 30 min every days		Active subjects greater weigth loss (<i>p</i> = .001)
Estefanía et al.,	months	years = 20-60				
2000		BMI = 47.5 kg·m ⁻²				
		∛= 15%; ♀ = 85%				
		Surgery: VBG				
Metcalf et al., 2005	6 months	n = 100	1: Active	Active: ≥3 times/week 30 min during previous	Self-reporting	No differences in body weigth between groups
		years =27-63	2: Inactive	6 months		Actives = 28% higher loss of fat mass (<i>p</i> < .05)
		BMI = ?				Actives = 8% higher gain in lean body mass $(p < .05)$

	∂ =14%; ♀ =86%			Inactive: who don't meet				
		Surgery: DS		the above criteria				
Silver et al., 2006	24 months	n = 140		Intensity:	BRFSS + exercise \uparrow PA = \downarrow IMC (r =25)	\uparrow PA = \downarrow IMC (r =25)		
		years = 45.2		Light: < 3 METs	frequency and duration			
		BMI = 49.8 kg·m ⁻² ♂= 11.4%; ♀ = 88.6%		Moderate: 3-6 METs				
				Vigorous: >6 METs				
		Surgery: RYGB						
				Frecuency:				
				2 or less times/month				
				2 times/week				
				7 times/week				
Bueter et al., 2007	27 months	n = 85	1: EWL < 50%	Active subjects: ≥3 times/week >30 min of aerobic exercise	Interview	Activity as a predictor of weight loss succes (RR 4.2; <i>p</i> = .007)		
		years = 40	2: EWL ≥ 50%					
		BMI = 49 kg·m ⁻²						
		ঐ= 19%; ♀ = 81%						
		Surgery: LAGB						
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BAQ: Baecke Activity Questionnaire; BMI: Body mass index; BRFSS: Behavioral Risk Factor Surveillance System; DS: Duodenal switch; EC: Energy consumption; GLTQ: The Godin Leisure Time Questionnaire: GPAQ: Organization's global physical activity questionnaire; IPAQ-short: Short International physical activity questionnaire; LAGB: Laparoscopic adjustable gastric banding; LRYGB: Laparoscopic Roux-en-Y gastric bypass; MET: Metabolic equivalent; MPA: Moderate physical activity; MVPA: Moderate-vigorous physical activity; PA: Physical activity; Prime-MD: Primary Care Evaluation of Mental Disorders; RYGB: Roux-en-Y gastric bypass; VPA: Vigorous physical activity; VBG: Vertical banded gastroplasty; $\diamond:$ Male; $\heartsuit:$ Female.

Study	Time	Sample	Groups	Physical Activity Volume and Intensity	Instrument of physical activity measurement	Main Results
Sha et al., 2011	12 weeks	n = 33	1. Exercise 2. Control	Energy consumption of 2000 kcal/week with aerobic exercise 60-70% VO _{2max}	Maximal exercise test on treadmill	1 weight↓4.8%
		years = 49.7			Anthropometry	2 weight↓4.6%
		BMI = 41.89 kg⋅m ⁻²			Dual-energy X-ray absorptiometry	No difference in weight loss
		∂ =9%; ♀=91%			Blood sample	
		Surgery: RYGB, LAGB				
Stegen et al., 2011	12 weeks	n = 15	1. Exercise 2. Control	3 days/week: 30' of aerobic exercise 60-75% HRR 3 days/week: strength training 60-75% RM	Maximal exercise test on bicycle	No difference in↓BMI
		years = 40.5			Sit-to-stand test	Strength:↑ group 1;↓ group 2
		BMI = 42.5 kg·m ⁻²			Dynamic muscle strength	Group 1 ↑ in sit-to-stand test
		ঐ= 27%; ♀ = 73%			Handgrip dynamometer	Both↓handgrip strength
		Surgery: RYGB				
Castello et al.,	12 weeks	n = 21	1. Exercise	3 days/week 40' of aerobic exercise 50-70% HRP	Not specified in the text	1 Weight↓22.7 kg
2011		years = 37	2. Control			2 Weight↓26.6 kg
		BMI = 45 kg·m ⁻²				No difference in weight loss
		♀ = 100%				
		Surgery: RYGB				

TABLE 2Catalogue of Interventional Study Design.

LAGB: Laparoscopic adjustable gastric banding; RYGB: Roux-en-Y gastric bypass; LRYGB: Laparoscopic Roux-en-Y gastric bypass; DS: Duodenal switch; VBG: Vertical banded gastroplasty; VO_{2max}: Maximal oxygen uptake; HRR: Heart rate reserve; HR_{peak}; Heart rate peak.