

Bilaga till rapport

Lipödem — diagnostik, behandling, upplevelser och erfarenheter, rapport nr 327 (2021)

Appendix 4 Summary of studies reporting adverse effects of treatments for lipedema / Bilaga 4 Sammanfattning av studier som studerat negativa effekter av en behandlingsmetod

Sammanfattning av studier som registrerat eventuella negativa effekter av en behandlingsmetod

Author, year Country Ref # Study design	Population	Intervention	Adverse events	Risk of bias (for effect outcomes)	Notes
Dadras, 2017 Germany [1] NCT	33 women with lipedema	Tumescent liposuction	Number of procedures: 72 (41 with classical vibrating microcannula, 31 water jet-assisted) 1 person had an infection (erysipelas) requiring antibiotic treatment	High (risk of selection bias, information bias, attrition bias, detection bias and reporting bias)	
Schmeller et al., 2011, Baumgartner et al., 2016, Baumgartner et al., 2021 NCT Germany [2-4]	255 women with lipedema	Tumescent liposuction	Common: Bruising, post-op swelling, orthostatic dizziness. 5x wound infections, 4x skin infection (erysipelas), 1 x low haemoglobin levels due to post-op bleeding, 1x Lower leg abscess	High (risk of selection bias, information bias, attrition bias, detection bias and reporting bias)	
Wollina, 2019 Germany [5] NCT	111 women with lipedema	Liposuction under tumescent local anesthesia with blunt microcannulas, classical and laser assisted (2007 to 2018)	Number of procedures: 334 Common: Bruising, temporary burning sensations. 1x minor burn, 2x phlebitis in arm, 1x trauma induced inflammation of subcutaneous fat at the knee (non-infectious panniculitis), 1x acute oedema in lower leg, 1x fall due to a post-op epileptic seizure, bruising, 1x post op anaemia, 1x microscopic pulmonary fat embolism, 1x acute pulmonary oedema requiring emergency care and hospitalization (see case study for details [6])	High (risk of selection bias, information bias, attrition bias, detection bias and reporting bias)	
Rapprich, 2015 Germany [7] NCT	105 women with lipedema	Liposuction under tumescent local anesthesia with blunt vibrating microcannula	Number of procedures: approximately 220. Bruising, 2x hematoma, 1x seroma, 1x thrombophlebitis,	High (risk of selection bias, information bias, detection bias, reporting bias and conflict of interest)	
Witte, 2020 Germany [8] NCT	130 women with lipedema	Water jet assisted liposuction under tumescent local anaesthesia	Number of procedures: 168 No Serious adverse events reported No significant complications occurred in any of the patients.	High (risk of selection bias, information bias, detection bias and reporting bias)	
Sandhofer, 2021 Austria [9] Case series or NCT	N= 27 women	Ambulatory high-volume liposuction under tumescent anaesthesia	Number of procedures: 40 Side effects of treatment reported at follow up: temporary poor circulation (n=9), mild systemic inflammatory response syndrome (SIRS, n=5.	Only studied adverse events	

Author, year Country Ref # Study design	Population	Intervention	Adverse events	Risk of bias (for effect outcomes)	Notes
(retrospective)			After procedure: 2 patients developed minor eyelid edema directly after procedure that persisted less than 28 hrs, 1 person had an infection (erysipelas) requiring antibiotic treatment		
Wollina, 2012 Germany [10] NCT	26 women with lipedema	Liposuction with microcannula (MTL) and / or laser assisted (LATL)	Number of procedures: 65 (43 MTL, 22 LATL) Bruising (MTL 23/29 sessions; LATL 6/22 sessions); 4x post-op pain, 2x headaches, 1x. nausea, 6x transient leukocytosis, no burns, varicose vein bleeding, 2x raised body temp	High (risk of selection bias, information bias, detection bias)	
Paling, 2020 UK [11] NCT	279 with lipedema	Reported experiences with pressure garments	Reported impact on life (n=269) Scale: 1=not at all, 2=slightly, 3=moderately, 4=badly, 5=severely Dimension: mean Reduces self-confidence: 4.2 Affects ability to exercise: 3.55 Limits mobility: 3.3 Affects ability to attend social events: 3.2 Affects ability to work: 2.6 Scale: 1= little or no impact, 5=life changing Overall: 73% rated impact 4 to 5, 8% rated impact as 1 or 2	Primarily studied adverse effects	Outcomes measured with a 41-item structured online questionnaire, most questions used a 5-point Likert scale with space for comments, measurement s or additional information

LATL = laser-assisted tumescent liposuction MTL = microcannular tumescent liposuction; N = number; NCT = non-controlled trial; SIRS = systemic inflammatory response syndrome

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