

## AB155. 90. Therapeutic mammoplasty: a systemic review

Afiq Rafidzy Anwar Samhari<sup>1</sup>, Manvydas Varzgalis<sup>2</sup>, Alison Jonston<sup>3</sup>

<sup>1</sup>College of Medicine, Nursing, & Health Sciences, School of Medicine, (NUI) Galway National University of Ireland Galway, Galway, Ireland; <sup>2</sup>Department of Surgery, Letterkenny University Hospital Department of Surgery, <sup>3</sup>Donegal Clinical Research Academy, Letterkenny University Hospital, Letterkenny, Co. Donegal, Ireland

**Background:** Therapeutic mammoplasty (TM) is a procedure which combines with a wide local excision with a breast reduction technique resulting in a tumour free, smaller and better breast shape. TM technique extent role of breast conserving surgery allowing to remove large tumours. TM has been reported for a number of years but there has been insufficient data publishing the oncological and aesthetic outcomes.

**Methods:** A systematic review was done using the PubMed, Google Scholar, Scopus and Cochrane database to identify studies regarding TM. Selected studies on the oncological, aesthetic and complications was used in this systemic review.

**Results:** Most of the studies were retrospective, and no randomized controlled trials were found in the search. Out of the 24 studies that reported the oncological outcomes, the mean tumor size was 29.31 mm. Mean specimen mass which was 355 g. Other than that, only 6 reported the mean breast size/volume or the bra size of the patients preoperatively. The range of median follow-up was between 13 to 55 months. Rates of local recurrence and metastasis were both 60/1,795 and 136/1,795 respectively. Aesthetic outcome was reported in 17 studies. PROMs and aesthetic outcomes were mostly using non-validated tools with only 6 out 17 using validated.

**Conclusions:** Most studies suggest that the majority of woman undergoing TM successfully achieved breast preservation without undergoing a second procedure or a mastectomy. Prospective data and randomized controlled trials are required to identify the quality assurances, and support development of specific assessment tools for this technique in the future.

**Keywords:** Aesthetic outcome; oncological outcomes; patient reported outcome; therapeutic mammoplasty (TM)

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