

## Can we predict that extended latissimus dorsi musculocutaneous flap provide sufficient volume on breast reconstruction?

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**Purpose:** The pedicled latissimus dorsi (LD) flap have known as the secondary option of breast reconstruction only for small to medium breast because of inadequate volume. However, the volume of back tissue varies depending on each patient. The authors determined the volume discrepancy between LD flap and breast tissue according to the body mass index (BMI) of patients.

**Methods:** A retrospective study was performed of 46 patients (46 breasts) who underwent breast reconstruction with extended LD flap between March 2014 and April 2017. The authors analyzed the correlation between BMI, flap volume, breast volume and volume discrepancy [breast volume – flap volume],

**Results:** Mean BMI, flap volume, breast volume and volume discrepancy were  $24 \pm 3.2$ ,  $211.6 \pm 100$ ,  $247 \pm 113$  and


$35.3 \pm 31.6$ . The Pearson correlation coefficient showed a correlation between BMI and LD flap volume, BMI and breast volume. There was no significant correlation between BMI and volume discrepancy. All patients have sufficient LD flap volume for coverage of large breast regardless of BMI.

**Conclusion:** In this study, BMI would not affect the volume discrepancy. Further study would be warranted to demonstrate multiple factors influence on volume discrepancy.

### Speaker Biography

Gyeol Yoo has completed his PhD from The Catholic University of Korea. He is the professor of The Catholic University of Korea since 1996.

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