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Donor to recipient sizing in thoracic organ transplantation

Michael Eberlein, Robert M Reed

**Abstract**

Donor-to-recipient organ size matching is a critical aspect of thoracic transplantation. In the United States potential recipients for lung transplant (LTx) and heart transplant (HTx) are listed with limitations on donor height and weight ranges, respectively. Height is used as a surrogate for lung size and weight is used as a surrogate for heart size. While these measures are important predictors of organ size, they are crude surrogates that fail to incorporate the influence of sex on organ size. Independent of other measures, a man's thoracic organs are approximately 20% larger than a woman's. Lung size can be better estimated using the predicted total lung capacity (pTLC), which is derived from regression equations correcting for height, sex and age. Similarly, heart size can be better estimated using the predicted heart mass (pHM), which adjusts for sex, age, height, and weight. These refined organ sizing measures perform better than current sizing practice for the prediction of outcomes after transplantation, and largely explain the outcome differences observed after sex-mismatch transplantation. An

**Match Overview**

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## Sizing strategies in heart and lung transplantation: you ...

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... of **recipient to donor organ size** matching in heart **transplantation** has long been ... of **thoracic organ** allocation to incorporate better estimates of **organ size**.

## Organ Type and Waiting Time - Transplant Living

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Please see the OPTN/UNOS Allocation of **Thoracic Organs** Policy for details. ... whether the potential **organ** candidate is a child; body **size** of both **donor** and ... For local pancreas allocation, **recipients** may be selected from candidates awaiting ...

## Lung Transplant Process - Cleveland Clinic

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