

## Overview of anesthetic risk factors in patients with MPS<sup>1</sup>

- MPS type
- Age
- Previous anesthetics
- Disease-targeting therapies (ERT, HSCT)

### Oral cavity

- Large tongue
- Limited mouth opening

### Neck pathology

- Cervical cord compression
- Atlant-axial instability

### Hypopharynx

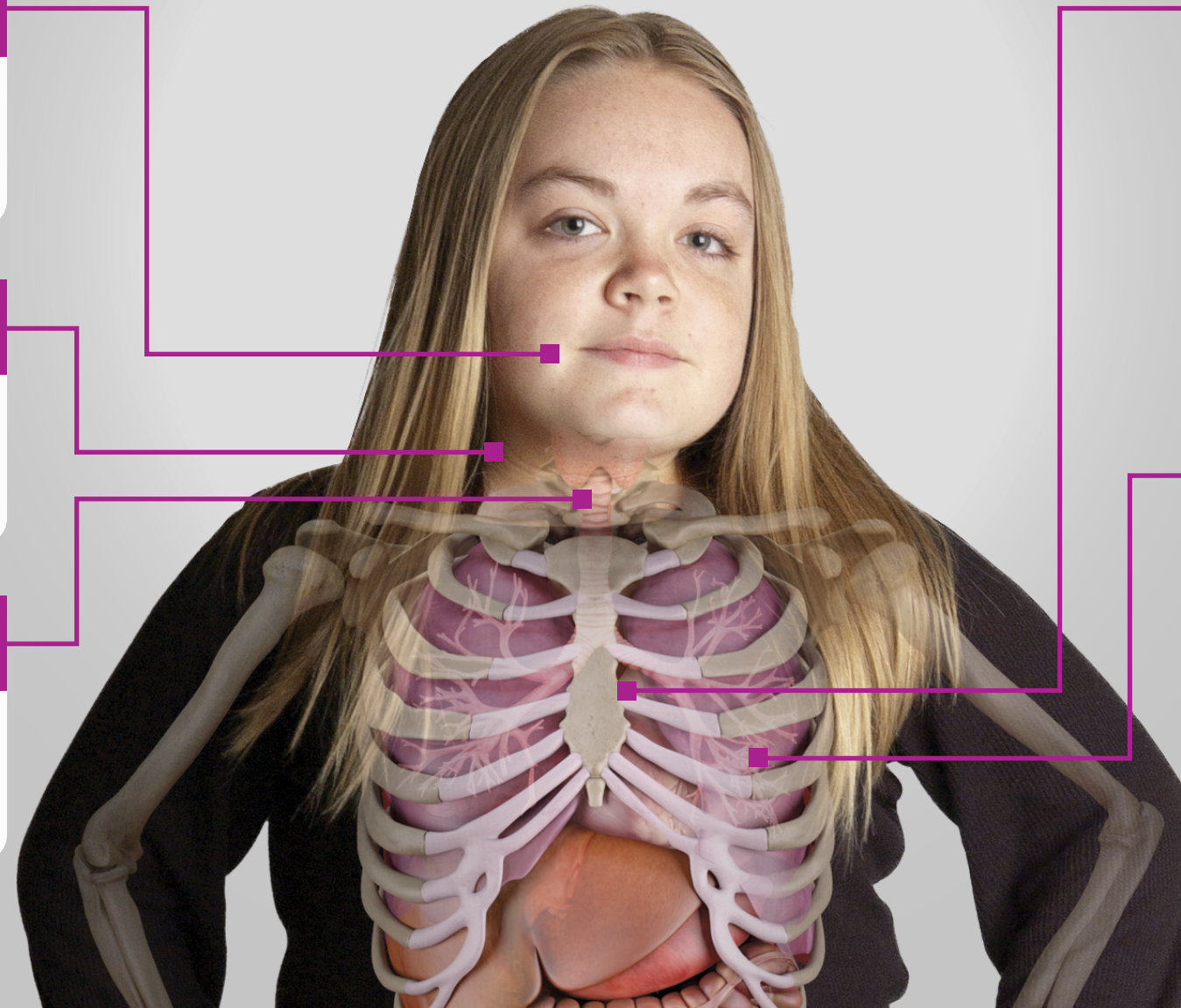
- Narrow due to redundant tissue
- Large tonsils/adenoids

### Cardiac

- Coronary disease
- Valve disease
- Heart failure
- Significant arrhythmias
- Pulmonary hypertension

### Respiratory

- Restrictive lung disease
- Obstructive lung disease
- Breathing at closing capacity
- Narrow trachea



Adapted from Walker, *J Inherit Metab Dis*, 2013.

Abbreviations: ERT, enzyme-replacement therapy; HSCT, hematopoietic stem cell transplant; MPS, mucopolysaccharidoses.

**Reference: 1.** Walker R, Belani KG, Braunlin EA, et al. Anaesthesia and airway management in mucopolysaccharidosis. *J Inherit Metab Dis*. 2013;36(2):211-219. doi:10.1007/s10545-012-9563-1.