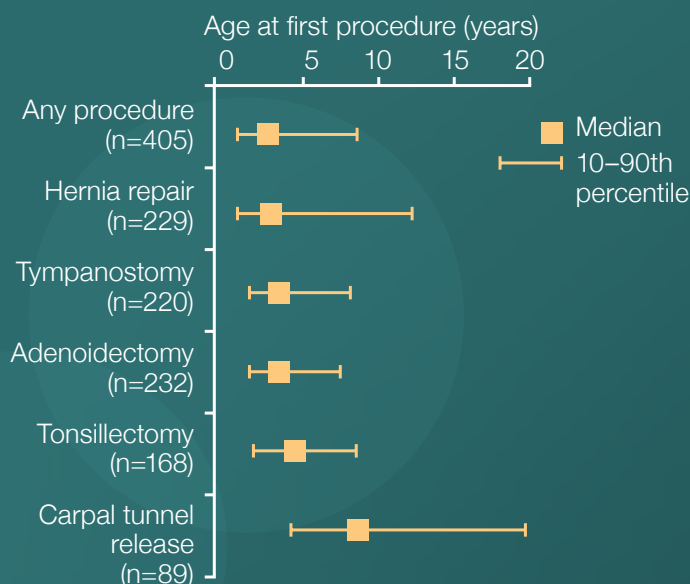


CONNECT THE DOTS: THINK HUNTER SYNDROME

As a pediatric surgeon, you may be one of the first to suspect Hunter syndrome (mucopolysaccharidosis II [MPS II]), a progressive genetic disease which affects almost exclusively males.¹ A history of early and frequent surgeries is a defining feature of Hunter syndrome.² By recognizing key clinical features, you can help identify and refer patients who may be at risk from this disease.



Figure 1. Age at first surgical procedure³



Adapted from Mendelsohn NJ, et al. *Genet Med.* 2010;12(12):816-822



Silas, age 6

- Broad nose⁴
- Flared nostrils⁴
- Prominent supraorbital ridges⁴
- Thick lips⁴
- Large jowls⁴
- Large head circumference⁴



ACT EARLY If you suspect Hunter syndrome, refer your patient to a medical geneticist for an accurate diagnosis.

Visit hunterpatients.com/healthcare-professionals for more information about Hunter syndrome

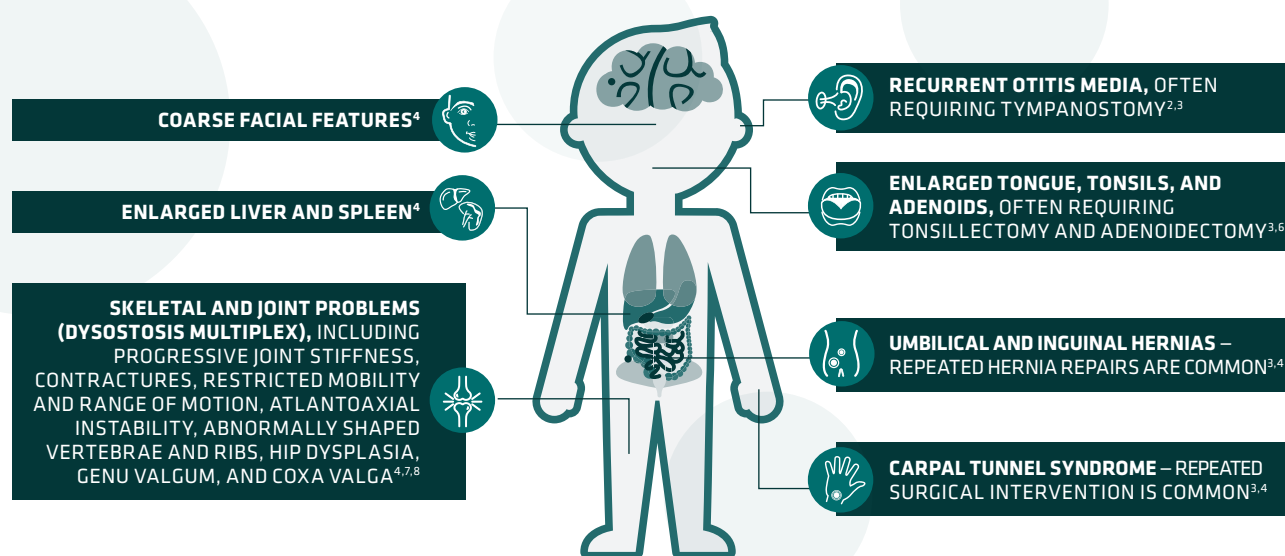


OVERVIEW OF HUNTER SYNDROME

Hunter syndrome is a progressive genetic disease

- X-linked recessive genetic disorder¹ affecting approximately 1 in 162,000 live births⁵, almost exclusively males¹
- Lysosomal storage disorder caused by the deficiency or absence of iduronate-2-sulfatase (I2S).^{1,4} The widespread pathological lysosomal storage of glycosaminoglycans (GAGs) leads to progressive damage and dysfunction in cells, tissues, and organs throughout the body^{2,4}
- A newborn infant who has Hunter syndrome may appear unaffected in the first months and years of life, but between the ages of 2 and 4, physical abnormalities begin to emerge and, in some cases, cognitive impairment may develop⁴
- Difficult to diagnose before irreversible damage occurs due to insidious onset and symptom overlap with common childhood complaints²

NOTABLE FEATURES FOR PEDIATRICIANS



1. Neufeld EF, et al. *The mucopolysaccharidoses*. In: Scriver CR, Beaudet AL, Sly WS, et al, eds. *The Metabolic and Molecular Bases of Inherited Disease*. 8th ed. New York, NY: McGraw-Hill; 2001:3421-3452. 2. Burton B, et al. *Eur J Pediatr*. 2012;171(4):631-639. 3. Mendelsohn NJ, et al. *Genet Med*. 2010;12(12):816-822. 4. Martin R, et al. *Pediatrics*. 2008;121(2):e377-e386. 5. Meikle PJ, et al. *JAMA*. 1999;281(3):249-254. 6. Muenzer JM, et al. *Pediatrics*. 2009;124(6):e1-e12. 7. Morishita K, et al. *Rheumatology (Oxford)*. 2011;50(suppl 5):v19-v25. 8. White KK. *Rheumatology (Oxford)*. 2011;50(suppl 5):v26-v33.

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