

**Recommended schedule of assessments for patients with MPS VI<sup>1</sup>**

<b>Imaging study</b>	<b>Initial assessments</b>	<b>Every 3 months</b>	<b>Every 12 months</b>	<b>As clinically indicated <sup>a</sup></b>
<b>Confirmation of MPS VI</b>	●			
<b>Medical history<sup>b</sup></b>	●		●	
<b>Physical examination</b>	●		●	
<b>Neurologic examination</b>	●		●	
<b>Height, weight</b>	●		●	
<b>Head circumference</b>	●		● <sup>c</sup>	
<b>Tanner stage</b>	●		● <sup>d</sup>	
<b>Photographs</b>	●			●
<b>Endurance<sup>e</sup></b>				
12-minute walk test	●		●	
3-minute stair climb	●		●	
<b>Ophthalmology</b>				
Visual acuity	●		●	
Corneal examination	●		●	
Fundoscopy examination	●		●	
Intraocular pressure	●		●	
Refraction	●		●	
<b>Audiometry</b>	●		●	
<b>Cardiology</b>				
Echocardiogram	●		●	
Electrocardiogram	●		●	
Blood pressure	●		●	
<b>Electrophysiology</b>				
Nerve conduction <sup>f</sup>	●			●
<b>Pulmonary function</b>				
Forced vital capacity, forced expiratory volume in 1 second, maximum voluntary ventilation <sup>g</sup>	●		●	
Sleep study	●			●
<b>Imaging studies</b>				
Hip films <sup>h</sup>	●			●
Skeletal survey	●			●
Flex/ext radiograph of cervical spine	●			●
MRI of brain and spine <sup>i</sup>	●			●
<b>Laboratory assessments</b>				
uGAG levels	●		●	
<b>Supplemental assessments for patients on ERT<sup>j</sup></b>				
Total anti-ASB antibody <sup>k</sup>	●	●	Yearly after 24 months	

Adapted from Giugliani, *Pediatrics*, 2007.

Abbreviations: MPS VI, mucopolysaccharidosis VI; MRI, magnetic resonance imaging; uGAG, urinary glycosaminoglycan.

<sup>a</sup> “As clinically indicated” generally means every 2 to 3 years depending on the rate of disease progression and clinical symptoms.

<sup>b</sup> For infants, more frequent examinations are necessary.

<sup>c</sup> Monitored until head growth has stopped.

<sup>d</sup> Continue assessments until pubertal maturation is completed.

<sup>e</sup> Endurance-testing paradigm before and after Enzyme replacement therapy (ERT): distance walked in 12 minutes (or 6-minute walk test per American Thoracic Society guidelines, but preferably same minute length as completed in previous test); number of stairs climbed in 3 minutes.

<sup>f</sup> Median nerve conduction measured to evaluate carpal tunnel syndrome.

<sup>g</sup> Pulmonary-function tests are to include forced vital capacity, forced expiratory volume in 1 second, and maximum voluntary ventilation.

<sup>h</sup> Anteroposterior and “frog-leg” lateral views of pelvis.

<sup>i</sup> MRI of brain and spinal cord may require sedation or general anesthesia depending on patient age and cooperation. General anesthesia carries substantial risk for patients with MPS VI.

<sup>j</sup> For patients on ERT, results should be obtained at baseline, then at months 3, 6, 12, 18, and 24, and then yearly.

<sup>k</sup> Anti-ASB antibody testing is only available for US patients enrolled in the clinical surveillance program.

**Reference: 1.** Giugliani R, Harmatz P, Wraith JE. Management guidelines for mucopolysaccharidosis VI. *Pediatrics*. 2007;120:405-418. doi:10.1542/peds.2006-2184.