

Manifestations of MPS that may affect respiratory function⁵

<i>Manifestations</i>	<i>% of patients (N=21)</i>
<i>Airway narrowing</i>	
Hypertrophy of tonsils/adenoids	67
Macroglossia	57
Nasopharyngeal obstruction	86
Supraglottic narrowing	92
Infraglottic narrowing	62
<i>Pulmonary disease</i>	
Obstructive defect	71
Focal atelectasis	35
Recurrent pneumonia	40
Interstitial markings	24
Arterial hypoxemia awake	57
Arterial hypoxemia asleep	100
<i>Sleep apnea</i>	
Central	0
Obstructive	89
<i>Thoracolumbar spine deformity</i>	
Scoliosis	67
Thoracic hyperkyphosis	62
Lumbar hyperlordosis	38
Thoracolumbar gibbus	57
<i>Cervical spine involvement</i>	
Cervical spine subluxation	68
Odontoid hypoplasia	69
Cord compression	63

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