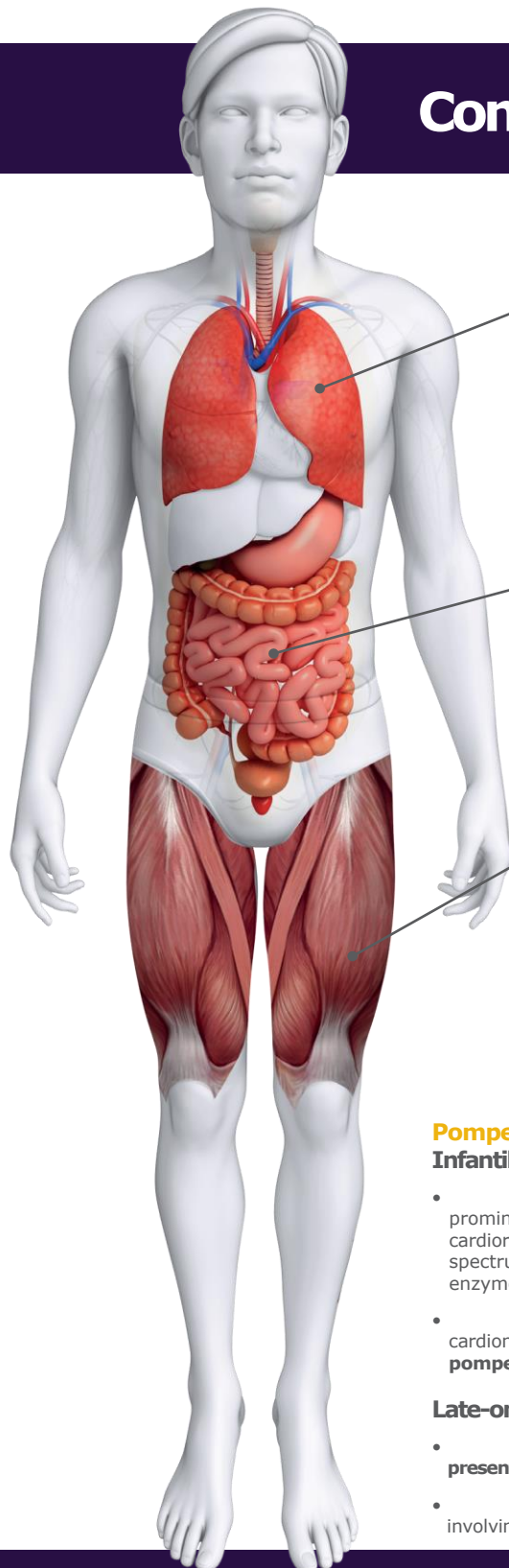


THINK OF **LATE ONSET POMPE DISEASE (LOPD)** IN YOUR **DIFFERENTIAL DIAGNOSIS**

It is a treatable disease



Common signs and symptoms^{1,2,3}

LUNG

- Respiratory failure/insufficiency
- Diaphragm weakness
- Sleep-disordered breathing
- Orthopnea
- Dyspnea

GASTROINTESTINAL

- Feeding and swallowing difficulties
- Poor weight gain/maintenance
- Gastroesophageal reflux

MUSCOSKELETAL

- Limb-girdle weakness
- Persistent, mild-to-moderate raised CK* level
- Scoliosis/scapular wings
- Gait abnormalities
- Elevated liver enzymes: aspartate aminotransferase (AST) and alanine aminotransferase (ALT)

Pompe disease is classified as follows³:

Infantile Pompe disease (IOPD):

- Patients who exhibit **rapidly progressive disease** characterized by prominent **cardiomegaly**, hepatomegaly, weakness and hypotonia and death due to cardiorespiratory failure in the first year. This represents the most severe end of the disease spectrum and is often referred to as **classic infantile Pompe disease**. Little to no detectable enzyme activity (<1%)¹.
- Patients with the infantile variant form with slower progression and less severe cardiomyopathy but still presenting in the first year of life are classified as **nonclassic infantile pompe disease**.

Late-onset Pompe disease (LOPD)

- **presenting later** Childhood, juvenile or muscular variant that is a heterogeneous group usually than infancy and typically not including severe cardiomyopathy.
- Adult-onset form characterized by a **slowly progressive myopathy** predominantly involving skeletal muscle that can present as late as the second to sixth decade of life.

1. AANEM. Muscle Nerve. 2009;40(1):149-160. 2. Hirschhorn et al. OMMBID New York, NY: McGraw-Hill; 2001. <http://ommbid.mhmedical.com/content.aspx?bookid=971§ionid=62641992>. Accessed July 28, 2017. 3. Kishnani et al. Genet Med 2006;8:267-88, *CK = creatine kinase

SUSPECT **LATE ONSET POMPE DISEASE** IN CASE OF...

1. Proximal/ axial weakness (LGMD*-like)¹
- AND /OR
2. Restrictive respiratory insufficiency¹
- AND /OR
3. Asymptomatic hyperCKemia¹

*Limb-Girdle Muscular Dystrophy

10 EARLY WARNING SIGNS OF POMPE DISEASE²



- Trouble climbing stairs
- Leg weakness
- Abnormal walk
- Difficulty getting out of a chair
- Difficulty reaching overhead
- Fall easily
- Morning headaches
- Daytime sleepiness
- Trouble breathing
- Excessive fatigue

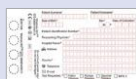
TEST THE PATIENT & THEIR **SIBLINGS**, TREAT EARLY



When you have **diagnosed one patient**, it is quite possible that their **brother(s) and/or sister(s)** may have Pompe disease as well. They may or may not present with signs or symptoms or may present signs and symptoms differently to the diagnosed patient. However, **Pompe disease is progressive in nature** and can lead to significant and irreversible muscle damage.¹ **Early diagnosis and intervention are critical.**¹

1

ENZYME ACTIVITY TESTING

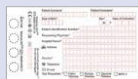


DBS

GAA

2

GENOTYPING



DBS

or



Whole blood sample (EDTA)

3

CONFIRMATION OF ENZYME ACTIVITY ON CULTIVATED FIBROBLASTS



Cultivated fibroblasts

Confirmation of a deficiency of acid α -glucosidase on a culture of skin fibroblasts is required for refund in Belgium.

To confirm Pompe disease and subsequently initiate therapy, refer the patient to specialized centers for neuromuscular or metabolic disorders.



Please contact your Sanofi Product Specialist



Contact person in your lab:.....

Tel.:.....

¹ A lysosomal glycogen accumulation is to be detected in a muscle biopsy (vacuolar myopathy) if only one GAA-PATHOLOGICAL MUTATION of the gene is found.

¹. Toscano et al. Acta Myol. 2013; 32(2): 78-81, 2. AANEM. Muscle Nerve. 2009;40(1):149-160.

A rare commitment to the Pompe community

Sanofi focuses on developing specialty treatments for debilitating diseases that are often difficult to diagnose and treat, providing hope to patients and their families.

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