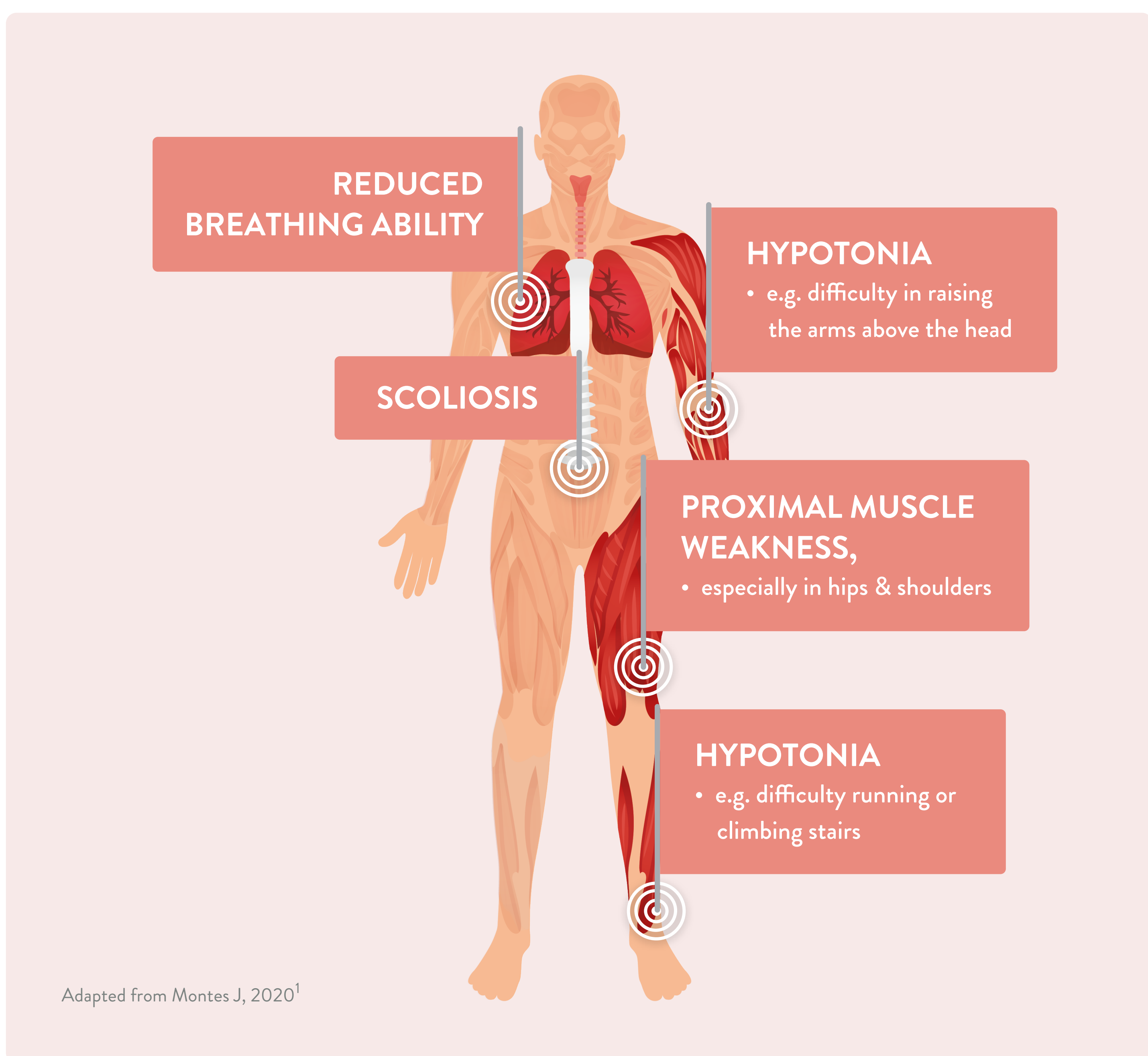


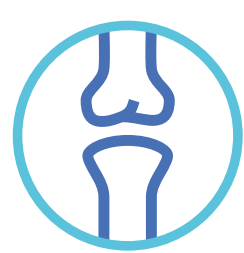
THIS IS THE CHECKLIST OF THE SIGNS AND SYMPTOMS ORGANISED AROUND THE DOMAIN THEY AFFECT:

In the image below, you can explore the signs and symptoms that are typically appearing in people living with SMA.



CARDINAL MOTOR SYMPTOMS^{1,2}

- Symmetrical muscle weakness, usually proximal, especially of hip and shoulders
- Muscle wasting and muscle cramps
- Functional impairment, including: inability to run, gait alteration, difficulty getting up from the ground and climbing stairs
- Difficulty raising arms above head
- Hand tremors
- Tongue fasciculations (muscle twitches)



BONE SYMPTOMS^{1,2}

- Skeletal deformities (scoliosis and hip dislocation)
- Joint contractures



RESPIRATORY SYMPTOMS^{1,3}

- Reduced breathing ability



GENERAL SYMPTOMS^{1,3}

- Fatigue
- Episodic weakness

References: **1.** Montes J. Spinal Muscular Atrophy in Adults. [online] [cited 2020 Nov 30]. Available from: URL: https://neuopt.org/docs/degenerative-diseases-sig/spinal-muscular-atrophy-in-adults.pdf?sfvrsn=8d2aae96_2 **2.** Arnold WD, et al. Muscle Nerve. 2015;**51**(2):157-67. **3.** Wijngaarde CA, et al. Orphanet J Rare Dis. 2020;**15**(1):88.