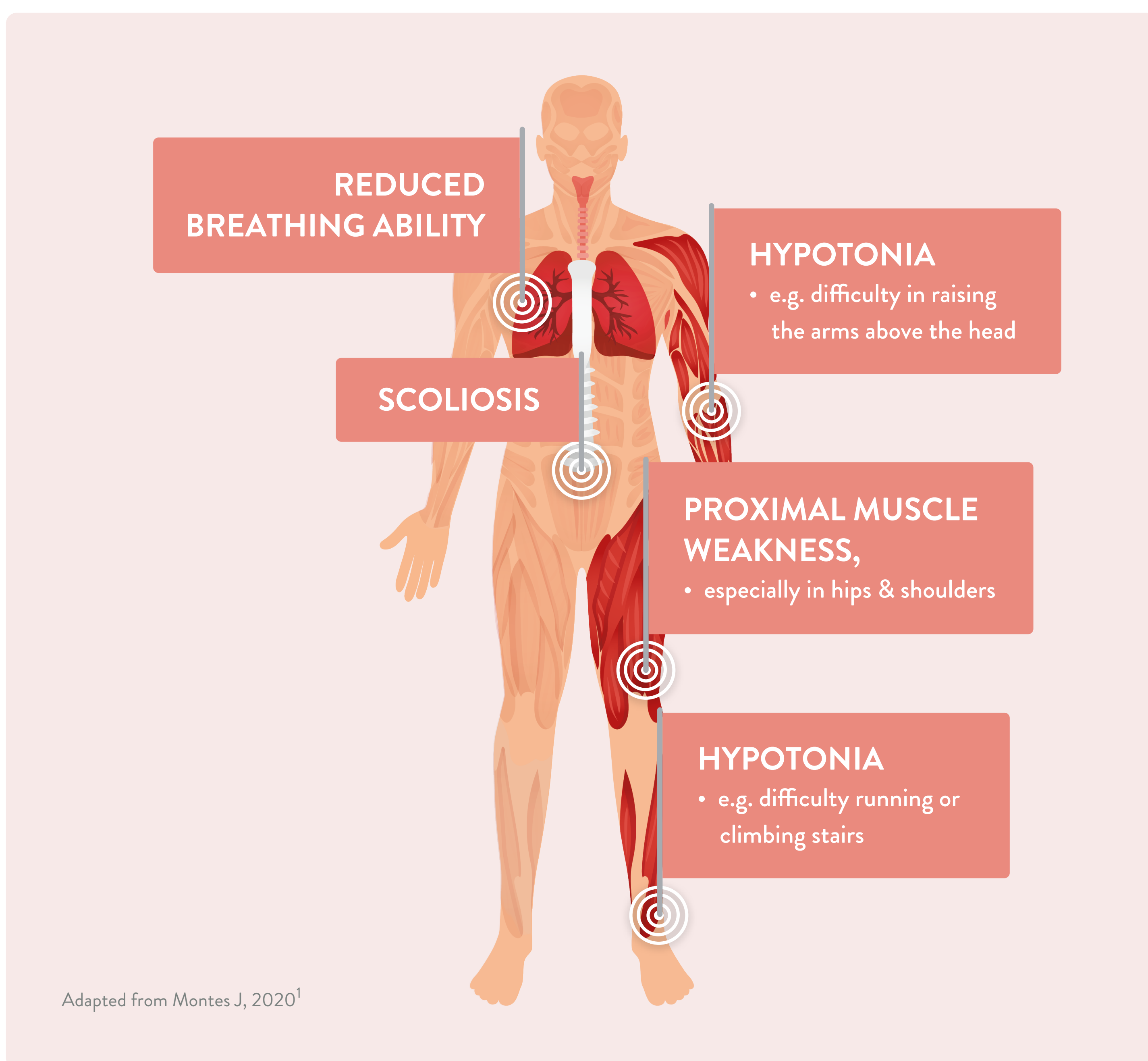


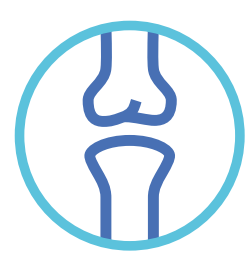
## THIS IS THE CHECKLIST OF THE SIGNS AND SYMPTOMS ORGANISED AROUND THE DOMAIN THEY AFFECT:

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



### CARDINAL MOTOR SYMPTOMS<sup>1,2</sup>

- 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)



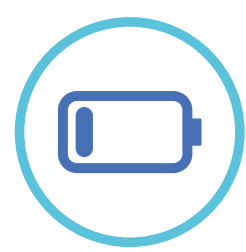
### BONE SYMPTOMS<sup>1,2</sup>

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



### RESPIRATORY SYMPTOMS<sup>1,3</sup>

- Reduced breathing ability



### GENERAL SYMPTOMS<sup>1,3</sup>

- Fatigue
- Episodic weakness

**References:** **1.** Montes J. Spinal Muscular Atrophy in Adults. [online] [cited 2020 Nov 30]. Available from: URL: [https://neuropt.org/docs/degenerative-diseases-sig/spinal-muscular-atrophy-in-adults.pdf?sfvrsn=8d2aae96\\_2](https://neuropt.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.