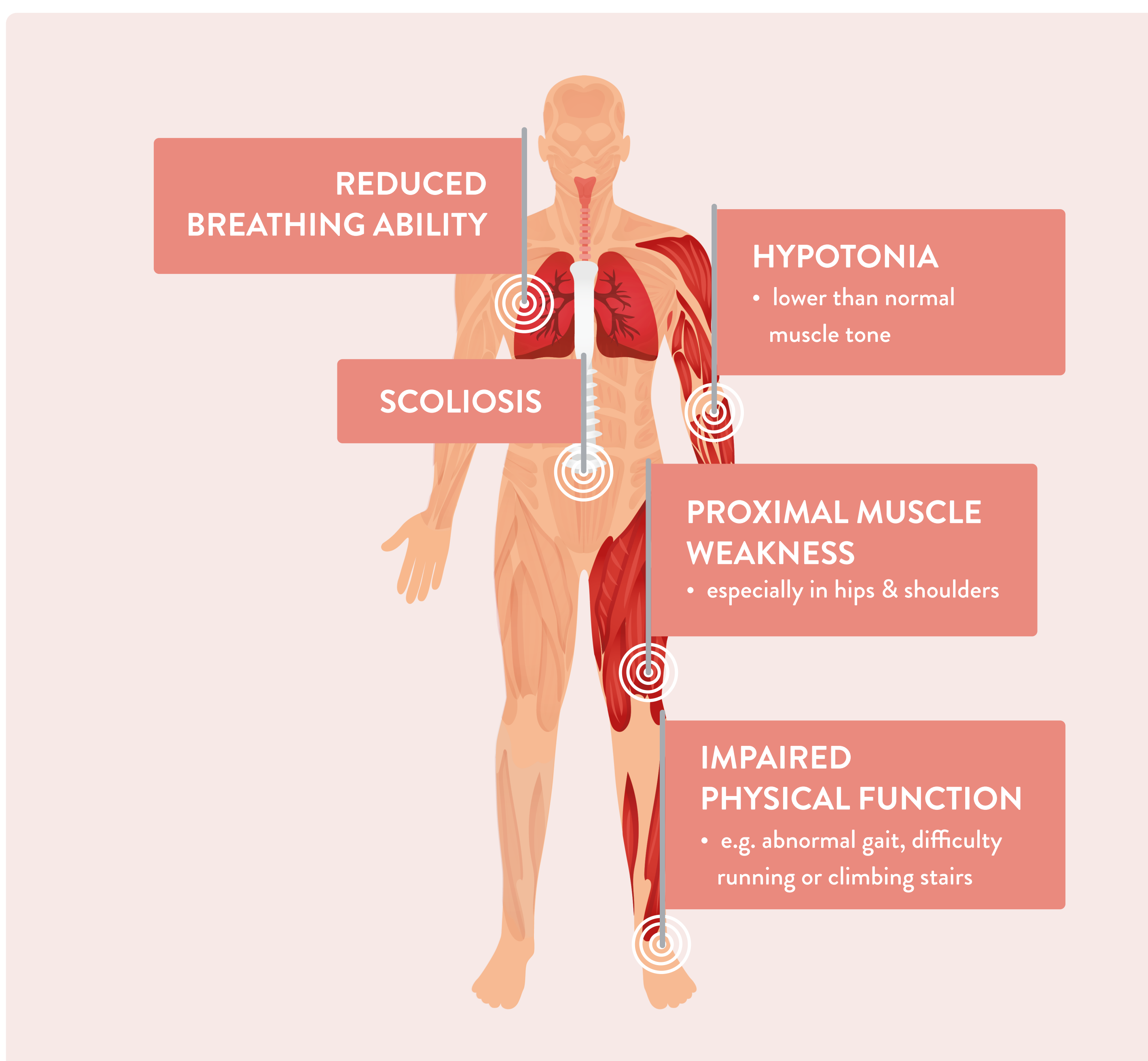


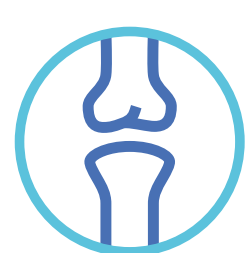
## THIS IS THE CHECKLIST OF THE SIGNS AND SYMPTOMS ORGANISED AROUND THE DOMAIN THEY AFFECT:

In the image below, you can explore the signs and symptoms that are typically appearing in people living with SMA.<sup>1,2</sup>



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

- Symmetrical muscle weakness, usually proximal, especially of the hips 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</sup>

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



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

- Reduced breathing ability



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

- Fatigue
- Episodic weakness

**References:** **1.** Montes J. Spinal Muscular Atrophy in Adults. [online] [cited 2020 Nov 30]. Available from: URL: [https://www.neuropt.org/docs/degenerative-diseases-sig/spinal-muscular-atrophy-in-adults.pdf?sfvrsn=8d2aae96\\_2](https://www.neuropt.org/docs/degenerative-diseases-sig/spinal-muscular-atrophy-in-adults.pdf?sfvrsn=8d2aae96_2). **2.** Arnold WD, Kassar D, Kissel JT. Spinal Muscular Atrophy: diagnosis and Management in a New Therapeutic Era. Muscle Nerve. 2015;51(2):157-167. **3.** Wijngaarde CA, Veldhoen ES, van Eijk RPA, et al. Natural history of lung function in spinal muscular atrophy. Orphanet J Rare Dis. 2020;15(1):88.