WHY MAINTAINING MUSCLE MATTERS

MUSCLE IS ESSENTIAL FOR STRUCTURAL AND METABOLIC FUNCTIONS¹

STRUCTURAL

Strength and power Mobility Posture and balance



METABOLIC

Regulates blood glucose Synthesizes and stores glutamine Stores protein and glycogen

CONSEQUENCES OF MUSCLE AND STRENGTH LOSS²

INCREASED

- Morbidity
- · Length of hospital stay
- Complications

DECREASED

- Mobility
- Independence

- Recovery
- Quality of life
- Discharge to home

INTERVENTION WITH NUTRITION AND EXERCISE CAN IMPROVE MUSCLE MASS, STRENGTH, PHYSICAL FUNCTION, AND OUTCOMES³

SCREEN NUTRITIONAL STATUS



- (CNST)

ASSESS NUTRITIONAL STATUS; MEASURE MUSCLE MASS, STRENGTH, AND FUNCTION



- Muscle functional tests, eg, gait speed, short-performance physical battery (SPPB),
- bioelectrical impedance analysis (BIA), dual energy X-ray absorptiometry (DXA), computerized tomography (CT)

IMPLEMENT INTERVENTION STRATEGIES



NUTRITIONAL SUPPORT4: adequate energy and high protein

ORAL NUTRITIONAL **SUPPLEMENT (ONS)**⁴ with specialized ingredients: eg, HMB, omega-3, vitamin D

EXERCISE: resistance training, adaptation needed

MONITOR/INTERVENE

Adapted from Figure 1, page 25 of Deutz NEP, et al: Algorithm depicting the management pathway for identifying, assessing, and managing low muscle mass.3

The steps of the pathway are represented as Find Assess Confirm Severity or FACS.

* SARC-F is an acronym for the dimensions screened with the tool: Strength, Assistance with walking, Rise from a chair, Climb stairs, and Falls.

References: 1. Argilés JM, et al. JAm Med Dir Assoc 2016;17(9):789-796. 2. Norman K, et al. Clin Nutr 2019;38(4):1489-95.

3. Deutz NEP, et al. J Am Med Dir Assoc 2019;20(1):22-27. 4. Gomes F. et al. Clin Nutr 2018;37(1):336-53.



