Agreement between Patient-Generated Subjective Global Assessment (PG-SGA) and Mini Nutritional Assessment (MNA) in long-stay nursing home residents

João Pinho^{*1}, Faith D. Ottery^{2,3}, Paula Pinto^{1,4}, Isabel Santoalha^{5,6}, Daniela Moreira⁷, Carla Gondar⁷, Antónia Vigário⁵, Harriët Jager-Wittenaar^{2,8}

- 1. Nutrition Services, Centro Hospitalar Médio Ave, EPE, V.N. Famalicão, Portugal
- 2. Research Group Healthy Ageing, Allied Health Care and Nursing, Hanze University of Applied Sciences, Groningen, The Netherlands
- 3. Ottery & Associates, LLC, Vernon Hills (Chicago), United States of America
- 4. Nutrition Science, University Institute of Health Sciences, Paredes, Portugal
- 5. Nutrition Services, Centro Hospitalar Médio Ave, EPE, Sto. Tirso, Portugal
- 6. Faculty of Nutrition and Food Science, University of Porto, Porto, Portugal
- 7. Nutrition and Food Services, Irmandade e Santa Casa da Misericórdia de Santo Tirso, Sto. Tirso, Portugal
- 8. Oral and Maxillofacial Surgery, University of Groningen, University Medical Center Groningen, Groningen, The Netherlands

Aim

We aimed to assess agreement between Patient-Generated Subjective Global Assessment (PG-SGA) and Mini Nutritional Assessment (MNA) in long-stay nursing home residents.

Background

The PG-SGA is a validated instrument to assess malnutrition and its risk factors.^{1,2}

References

Results

By PG-SGA, 43%, 45%, and 12% were rated well nourished, suspected/moderate malnutrition, and severely malnourished, respectively.

By MNA, 29%, 54% and 18% were well nourished, at risk of malnutrition, and malnourished, respectively.

Agreement between PG-SGA and MNA was moderate (κ=0.530, p<0.001) (Table 1).

46% and 39% were characterized as needing intervention by PG-SGA and MNA, respectively (κ =0.488, p<0.001).

Conclusion

For the study population there is moderate agreement between the PG-SGA and MNA. However, the PG-SGA identified more elderly needing intervention.

Lack of agreement mainly relates to differences in weighting of malnutrition risk factors including recent weight change.

Methods

123 elderly (aged 82.7±8.96) years; 76.4% female) 5 Portuguese nursing homes Portuguese PG-SGA (15-003) v07.17.15, based on the original English PG-SGA ©FD Ottery, 2005, 2006, 2015) was completed first, then MNA PG-SGA categories are: well nourished, suspected/moderate malnutrition, or severely malnourished MNA categories are: normal nutritional status, at risk of malnutrition, or malnourished Agreement between PG-SGA and MNA was tested by weighted kappa (к)

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- 3. Marshall S et al. J Acad Nutr Diet 2016;116(5):785-94

Table 1. Agreement between PG-SGA and MNA

		MNA			
		Well nourished	Risk of malnutrition	Malnourished	Total
PG-SGA	Well nourished	26	27	0	53
	Suspected/ moderate malnutrition	9	33	13	55
	Severely malnourished	0	6	9	15
	Total	35	66	22	123

Need for intervention was

defined by PG-SGA as \geq 7 points^{1,2}, and by MNA 'at risk for malnutrition and weight loss' or 'malnourished'³





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