

SUPPLEMENTARY MATERIAL

Community-level pharmaceutical interventions to reduce the risks of polypharmacy in the elderly: overview of systematic reviews and economic evaluations

Orenzio Soler*¹, Jorge Otávio Maia Barreto².

¹ School of Pharmacy, Health Science Institute, Federal University of Pará, Belém, Pará, Brazil.

² Fiocruz School of Government, Fiocruz Brasília, Oswaldo Cruz Foundation, Brasília, Federal District, Brazil.

* E-mail: orenziosoler@ufpa.br

Supplementary Material 4 | Methodological assessment of systematic reviews

SUPPLEMENTARY MATERIAL 4 | Methodological assessment of included systematic reviews

	AMSTAR*											Rating
	1	2	3	4	5	6	7	8	9	10	11	
Khalil et al. 2017 (20)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	11/11
Babar et al. 2017 (21)	Yes	No	Yes	N/A	No	Yes	Yes	Yes	Yes	Yes	Yes	9/10
Loh et al. 2016 (22)	Yes	Yes	Yes	N/A	N/A	Yes	Yes	Yes	Yes	Yes	No	8/9
Cooper et al. 2015 (23)	Yes	Yes	Yes	N/A	No	Yes	Yes	Yes	Yes	Yes	Yes	9/10
Jokanovic et al. 2015 (24)	Yes	Yes	Yes	N/A	No	Yes	Yes	Yes	Yes	Yes	No	8/10
Olaniyan et al. 2015 (26)	Yes	N/A	Yes	No	No	Yes	No	No	N/A	No	Yes	4/9
Alldred et al. 2013 (27)	Yes	Yes	Yes	N/A	No	Yes	Yes	Yes	Yes	Yes	Yes	9/10
Lee et al. 2013 (28)	Yes	Yes	Yes	N/A	No	Yes	Yes	Yes	Yes	Yes	Yes	9/10
Sáez-Benito et al (29)	Yes	Yes	Yes	N/A	No	Yes	Yes	Yes	Yes	Yes	Yes	9/10
Patterson et al. 2012 (30)	Yes	Yes	Yes	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	10/10
Mathumalar et al. 2011 (32)	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	No	Yes	8/11
Kaur et al. 2009 (34)	Yes	N/A	Yes	No	No	Yes	Yes	Yes	Yes	Yes	No	7/11
Hajjar et al. 2007 (35)	Yes	No	Yes	No	No	Yes	Yes	Yes	No	No	No	5/11

AMSTAR contains 11-items to appraise the methodological aspects of the systematic reviews. All 11-items were scored as “Yes”, “No”, “Can’t Answer” or “Not Applicable”. AMSTAR comprises the following items: 1. ‘a priori’ design provided; 2. duplicate study selection/data extraction; 3. comprehensive literature search; 4. status of publication as inclusion criteria (i.e., grey or unpublished literature); 5. list of studies included/excluded provided; 6. characteristics of included studies documented; 7. scientific quality assessed and documented; 8. appropriate formulation of conclusions (based on methodological rigor and scientific quality of the studies); 9. appropriate methods of combining studies (homogeneity test, effect model used and sensitivity analysis); 10. assessment of publication bias (graphic and/or statistical test); and 11. conflict of interest statement.

*Adapted from: Shea BJ, Grimshaw JM, Wells GA, Boers M, Andersson N, Hamel C, Porter AC, Tugwell P, Moher D, Bouter LM. Development of AMSTAR: a measurement tool to assess the methodological quality of systematic reviews. *BMC Medical Research Methodology* (2007) 7(10). <https://doi.org/10.1186/1471-2288-7-10>