

Supplement 5. Overlapping among systematic reviews

	Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti (2021)	Ude-Okeke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Elmståhl and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)
Abegaz 2018	x										x								
Yedesa 2017	x																		
Sada 2017	x																		
Teka 2016	x																		
Getachew 2015	x																		
Mekonnen and Bhagavathula 2014	x																		
Teni and Gedif 2014	x																		
Anjum 2017		x																	
Benjamin 2018		x																	
Bhatt 2019		x																	
Borah 2017		x																	
Burfa 2016		x																	
Chandrasekhar 2019		x																	
Chowta 2016		x																	
Devarapalli 2017		x																	
Dhikav 2014		x																	
Harugeri 2010		x																	
Karandikar 2013		x																	
Kashyapa 2015		x																	
Kumar 2017		x																	
Mandavi 2011		x																	
Momin 2013		x																	
Motallebzadeh 2019		x																	
Narvekar 2017		x									x								
Pattani 2015		x																	
Pradhan 2017		x																	
Pradhan 2018		x																	
Rakesh 2017		x									x								
Salve 2016		x																	
Shah 2011		x																	
Umar 2015		x																	
Undela 2013		x																	
Vishwas 2012		x																	
Zaveri 2010		x															x		
Bitter 2019			x																
Kolar 2018			x																
Fog 2017			x																
Alves-Conceicao 2017			x																

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Supplement 5. Continued

	Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti (2021)	Ude-Okeleke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Elmstähl and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)
Lao CK 2013			x																
Xavier-Pito 2013			x																
Bakken 2012 (nursing home)			x																
Varallo 2012			x																
Haasum 2012 (nursing home)			x																
Halvorsen 2011 (nursing home)			x																
Hosia-Randell 2008			x																
Nygaard 2003			x																
Giron 2001 (Normal)			x																
Stuhec M 2019			x																
Bazargan 2018			x								x								
Allegrí 2017			x																
Pasina 2016			x																
Hanlon 2015			x																
Hanlon 2011			x																
Giron 2001 (Mental disease)			x																
Bobrova 2019			x																
Vatcharavongvan 2019			x				x	x											
Toivo 2019			x																
Stuhec 2019			x																
Patel 2018			x																
Novaes 2017 (Int J Clin Pharm)			x																
Hanlon JT 2017			x																
Marin-Gorricho 2017			x																
Bazargan 2016			x																
Popović 2014			x											x					
Tora 2014			x																
Steinman 2014			x																
Lund 2013			x				x												
Koper 2013			x					x											
Haasum 2012 (community)			x																
Halvorsen 2011 (community)			x																
Ghadimi 2011			x															x	

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Supplement 5. Continued

	Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti (2021)	Ude-Okeke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Ernststahl and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)
Pozi 2010			x																
Johnell 2009			x																
Chrischilles 2009			x																
Haider 2009			x												x				
Lapi 2009			x											x					
Johnell 2008			x																
Johnell 2007			x											x					
Bregnhøj 2007			x											x					
Cannon 2006			x																
Zhan 2005			x																
Azoulay 2003			x																
Tamblyn 2003			x																
Schmader 1994			x																
Courlet 2019			x																
Lund 2017			x																
Oesterhus 2017			x																
Wucherer 2017 (Int. Psychogeriatr)			x																
Yazdaniestenas 2016			x																
Suehs 2016 (J. Am. Geriatr. Soc)			x																
Dionne 2013			x																
Gallagher 2001			x																
Al-Azayzih 2019			x																
Ertuna 2019			x																
De Oliveira 2018			x																
Colombo 2018			x																
Ruiz-Millo 2018			x																
Saqib 2018			x																
Gutiérrez-Valencia 2017			x								x								
Franchi 2016			x																
De Melo 2016			x																
Grion 2016			x																
Matanovic 2014			x																
Franchi 2014			x																
Ghibelli 2013			x																
Bakken 2012 (hospital)			x																
Siqueira 2012			x																
Trivalle 2010			x																

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Supplement 5. Continued

	Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti (2021)	Ude-Okeke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Elmståhl and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)
Schuler 2008			x												x				
Nixdorff 2008			x																
Radosevic 2008			x																
Saltvedt 2005			x																
Fillenbaum 2004			x																
Frank 2001			x																
Jørgensen 2020			x																
Hong 2020			x																
Lavan 2019			x																
Graf 2018			x																
Leger 2018			x																
Alkan 2017			x																
Rouge Bugat 2017			x																
Vrijkorte 2017			x																
Parian 2015			x																
Jarchow & Mangoni 2013			x																
Akkawi 2020				x															
Akkawi 2019				x															
Al-Aqqad 2014				x															
Chen 2012				x									x						
Hasan 2017				x						x									
Kumar 2019 (Malaysia)				x															
Liew 2019				x															
Lim 2017				x															
Lim 2015				x															
Ramachandran 2020				x															
Shim 2018				x															
Fick 2008					x														
Akazawa 2010					x														
Cahir 2010					x		x							x					
Leikola 2011					x									x					
Bradley 2012					x		x	x						x					
Al-Omar 2013					x														
Morgan 2016					x														
Shah 2016					x														
Heider 2017					x														
Grina 2017					x						x								
Harrison 2018					x						x								

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Supplement 5. Continued

	Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti et al. (2021)	Ude-Okeke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Elmståhl and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)
Pages 2019					x														
Caucat 2020					x														
Barnett 2011						x		x				x							
Lau 2005						x			x			x							
Budnitz 2011						x													
Endres 2016						x			x										
Van der Steit 2015						x													
Beer 2011						x						x							
Cahir 2014 a						x		x					x						
Henschel 2015						x													
Gallagher 2011 b						x			x							x			
Fialová 2005							x												
Castillo-Páramo 2014						x	x												
Núñez-Montenegro 2019						x													
Wang 2019						x													
Ble 2015						x	x												
Moriarty 2015 b						x		x											
Lopez-Rodriguez 2020						x													
Cahir 2014 BMC						x	x						x						
Bradley 2014						x	x							x					
Buck 2009 a						x	x												
Kovačević 2014						x	x												
Lin 2011						x													
Simões 2019						x	x												
Howard 2004						x	x											x	
Zeenny 2017						x													
Awad 2019						x	x												
Gorup 2017						x													
Mand 2014						x													
Tommelein 2016						x													
Sakr 2018						x													
Hamano 2014						x													
Zhang 2020						x													
Liu 2020						x													
Rogero-Blanco 2020						x													
Bala 2019						x													
Alhmoud 2015						x													
Sayin 2020						x													

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Supplement 5. Continued

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Imai 2007							X	X												
Brekke 2008							X	X												
le 2017 (J Am Board Farm Med)							X		X		X									
Amos 2015							X	X												
Pugh 2011							X													
Rieckert 2018							X													
Clyne 2016							X													
Heser 2018							X													
Straßne 2017							X													
Pohontsch 2017							X													
Heyworth 2013							X													
Anderson 2017							X													
Schuling 2012							X													
Hansen 2018							X													
Wallis 2017							X													
Weir 2019							X													
Magin 2015							X													
AlRasheed 2018							X													
Frich 2010							X													
Al Odhayani 2016								X												
Barry 2016							X													
Berger 2009							X													
Blanco-Reina 2014							X							X						
Blanco-Reina 2016							X				X									
Bruin-Huisman 2017							X													
Cano 2017							X													
Carey 2008							X						X							
Cojutti 2016							X													
Conejos Miquel 2010							X						X			X				
Cruz-Esteve 2016							X				X									
Dalleur 2015							X													
De Wilde 2007							X							X			X			
Fiss 2011							X							X						
Fiss 2013							X													
Hazra 2016							X													
Holguin-Hernandez 2010							X													

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Supplement 5. Continued

	Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti (2021)	Ude-Okeke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Elmståhl and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)
Lin 2013								X				X							
Pugh 2013								X				X							
Chu 2012								X											
Albert 2010								X											
Dedhiya 2010								X											
Fick 2008								X									X		
Lin 2008								X				X				X			
Raivio 2006								X				X							
Klarin 2005								X				X		X					
Zhang 2010									X										
Woelfel 2011								X											
Blackwell 2012								X											
Holmes 2013								X											
Jiron 2016								X											
Kester 2016 a								X											
Kester 2016 b								X											
Hu 2012								X											
Prithvira 2012								X											
Nightingale 2015								X											
DiNapoli 2016								X											
Zhang 2011								X											
Kachru 2015								X											
Extavour 2016								X											
Miller 2016								X											
Swanosi 2017								X											
Weston 2010								X											
Koyama 2013								X											
Mattos 2016								X											
Shade 2017								X											
Cossette 2017											X								
Martin P 2018											X								
Kimura 2017											X								
Martin JH 2018											X								
Najjar 2018											X								
Almeida 2018											X								
Bahat 2016											X								
Cho 2018											X								
Diaz-Gonzalez 2017											X								
Hansen 2017											X								

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	Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti (2021)	Ude-Okeleke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Ernstáhl and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)
Meid 2018											X								
Nicieza-Garcia 2017											X								
O'Riordan 2017											X								
Trenaman 2018											X								
Unutmaz 2018											X								
Argoullon 2018											X								
Blane 2017											X								
Bo 2018											X								
Counter 2018											X								
Getachew 2016											X								
Hudhra 2016											X								
Millar 2017											X								
Mucalo 2017											X								
Pardo-Cabello 2018											X								
Ranković 2016											X								
Rodriguez del Rio 2017											X								
Sevilla-Sánchez 2017											X								
Bala 2017											X								
Fulone 2017											X								
Park 2017											X								
Ramsey 2017											X								
Reis 2017											X								
Skaar 2017											X								
Suehs 2017 (Drugs Aging)											X								
Akande-Sholabi 2018											X								
Komagamine 2017											X								
Kose 2017											X								
Parker 2016											X								
Sheikh-Taha 2017											X								
Zhang 2017											X								
Fabbietti 2017											X								
Novaes 2017 (Geriatr Gerontol Int)											X								
Secora 2018											X								
Anrys 2018											X								
Juliano 2017											X								
Mazhar 2018											X								
Nieves- Pérez 2018											X								
Epsino 2006																			X

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	Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti et al. (2021)	Ude-Okeke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Elmstähl and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)
Chin 1999												x							x
Hanlon 2002												x							x
Pasina 2014												x							
Vegesna 2015												x							
Galvin 2014													x						
Mairoquin 2012													x						
Ryan 2013 Clinic													x						
Borges 2012													x						
Dalleur 2012													x						
Fernandez-Regueiro 2011													x						
Frankenthal 2014													x						
Gallagher 2011 a													x						
Gallagher 2008 a													x						
Hamilton 2011													x						
Liu 2012													x						
Onatade 2013													x						
Sevilla-Sanchez 2012													x						
Siebert 2013													x						
Wahab 2012													x						
Garcia-Gollarte 2012													x						
O'Sullivan 2013													x						
Parsons 2012													x						
Ryan 2013 Nursing home													x						
Vlahović-Palčevski 2004														x					
Pitkala 2002														x					
Bell 2013														x					
Lechevallier-Michel 2005														x					
Berdot 2009														x					
Bongue 2009														x					
Bongue 2011														x					
Jardin 2012														x					
Amann 2012														x					
Goltz 2012														x					
Schubert 2013														x					
Linder 2014														x					
Ryan 2008														x					

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Supplement 5. Continued

	Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti et al. (2021)	Ude-Okeke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Elmstähi and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)
Maio 2006 Italy													X			X		X	
Landi 2007													X						
Maio 2010													X				X		
Nyborg 2012													X						
Rajska-Neumann 2007													X						
De Oliveira-Martins 2006													X				X		
Primejdie 2012													X						
Parodi López 2014													X						
Blozik 2013													X						
Reich 2014													X						
Denneboom 2006													X						
Ay 2005													X						
Wawruch 2008														X					
Gallagher 2008 b														X					
Simon 2005														X				X	
Helka 2008														X					
Barry 2007																X			
Gallagher & O'Mahony 2008																X			
Pyszka 2010																X			
Byrne 2011																X			
Lai 2009																X		X	
Bierman 2007																X		X	
Pugh 2006																X		X	
Pugh 2005																X		X	
Curtis 2004																X		X	
Aparasu 1999																X			
Straand 1999																X			
Aparasu 1997																X			
Pugh 2008																X			
Roughead 2007																X			
Barnett 2006																X			
Zuckerman 2006																X			
Rigler 2005																X			
Rigler 2004																X			
Fick 2001																X		X	
Mott & Meek 2000																X		X	
Plecoro 2000																X		X	
Futterman 1997																X		X	

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Bhagavathula et al. (2021) Ethiopia	Bhagavathula et al. (2021)	Bories et al. (2021)	Chang et al. (2021)	Malakouti (2021)	Ude-Okeke et al. (2021)	Xu (2021)	Liew et al. (2020)	Weeda et al. (2020)	Nothelle et al. (2019)	Thomas and Thomas (2019)	Muhlack et al. (2016)	Thomas (2016)	Tommelein et al. (2015)	Elmstähl and Linder (2013)	Hill-Taylor et al. (2013)	Opondo et al. (2012)	Guaraldo et al. (2011)	Liu and Christensen (2002)		
Golden 1999																			x	
Hanlon 2000																				x
Meredith 2001																				x
Mort and Aparasu 2000																				x
Spiker 2001																				x
Zhan 2001																				x

$$CCA = \frac{(N-r)}{(r \times c) - r}$$

N (number of included publications)=548

r (number of index publications)=413

c (number of included reviews)=19

CCA (corrected covered area)=0.0181598063