

Additional tables for: Cross AJ, Elliott RA, Petrie K, Kuruvilla L, George J. Interventions for improving medication-taking ability and adherence in older adults prescribed multiple medications. Cochrane Database of Systematic Reviews 2020.

Intervention features of included studies

Study ID	Type of intervention								Provider of intervention				Location or delivery mode of intervention	Duration/ Frequency of intervention
	Educational		Behavioural											
	Education	Medication review	Regimen simplification	Follow up/ Monitoring	Motivational interviewing	DAA	Patient medication card/list	Other	Pharmacist	Nurse	Physician	Other		
Al-Rashed 2002	X						X		X				Hospital	One-off
Begley 1997	X		X					X (G2)	X				Home	12 months (5 times)
Bernsten 2001	X	X	X	X					X				Pharmacy	18 months continuous
Blalock 2010	X	X							X		*		Pharmacy/ Health centre	One-off
Bond 2007		X							X		*		Pharmacy	One-off + As needed
Cargill 1992	X	X		X (G3)		*				X			Home + Phone	One-off (+1 to 2 weeks for group 3)
Chrischilles 2014	X							X				X	Online	12 months continuous
Cohen 2011	X			X					X	X		X	Medical centre	6 months (weekly for 4

														weeks, then monthly)
Cossette 2015	X			X						X			Hospital + Phone	At discharge + 2 to 4 days and 7 to 10 days post discharge
George 2016	X											X	Online	1 month continuous
Grymonpre 2001		X							X		*		Home/Clinic	One-off + As needed
Haag 2016		X							X	*			Phone	One-off
Hale 2016				X		X						X	Home	90 days continuous
Hanlon 1996	X	X							X				General medicine clinic	12 months (before/after GP visits)
Holland 2007	X	X		X					X		*		Home	2 weeks & 6 to 8 weeks post discharge
Khdour 2009	X	X			X				X				Outpatient clinic + Phone	9 months (4 times)
Krska 2001		X							X		*		Medical centre or home	One-off + As needed
Lee 2006	X	X		X		X			X				Outpatient pharmacy clinic	6 months (every 2 months)
Lim 2004	X	X	X						X		*		Outpatient clinic	One-off

Lingler 2016	X			X						*		*	Home + Phone	16 weeks (2 to 3 visits + 2 to 3 calls)
Lipton 1994	X	X	X	X					X		*		Hospital + Home or phone	3 months (5 times)
Lopez Cabezas 2006	X			X					X				Hospital + Phone	12 months (9 times)
Manning 2007	X						X	X		X			Hospital	One-off
Marek 2013	X			X		X				X			Home	12 months
Marusic 2013	X										X		Hospital	One-off
Messerli 2016	X	X							X				Pharmacy	Twice (0 & 28 weeks)
Moral 2015				X	X					*	*		Home + Health centre	6 months (4 times)
Morales Suarez-Vurela 2009				X		X				X			Unclear	2 months (3 times)
Murray 1993			X			X			X				Home or clinic	6 months (monthly)
Muth 2016		X									X	*	GP clinic	One-off
Nascimento 2016	X	X							?				Home	One-off
Naunton 2003	X	X				*			X				Home	One-off
Nazareth 2001	X	X		X					X		*		Hospital + Home	Twice (0 + 7 to 14 days)

Olesen 2014	X	X	X	X	X			X	X				Home + Phone	9 months (4 times)
Pandey 2017								X		*		X	Text message	12 months continuous
Pereles 1996	X			X				X	X	X			Hospital	Continuous (mean 21.6 days)
Rich 1996	X	X	X	X						X	X	X	Hospital + Home	Unclear
Saez de la Fuente 2011	X						?		?				Hospital	One-off
Shimp 2012	X	X							X				University	Twice
Shively 2013	X			X	X					X			Phone + ? Clinic	6 months (6 times)
Taylor 2003	X	X		X					X		*		Medical clinic	12 months (at GP visits)
Truelove 2015								X			X		GP clinic or Aboriginal medical centre	18 months continuous
Vinluan 2015	X	X		X					X				Hospital + Phone	90 days (5 times)
Volume 2001	*	X							X				Pharmacy	One-off + As needed
Willeboordse 2017	*	X							X		X		GP clinic	One-off
Williams 2012	X	X		X	X					X			Home + Phone	One-off + 12 weeks of follow-up
Winland-Brown 2000						X				X			Independent living facility	6 months (continuous)

Wood 1992	X			X				X	X	X			Hospital	Up to 3 weeks
Wu 2006	X			X					X				Phone	2 years (6 to 8 times)
Young 2016	X			X				X		?			Hospital + Phone	12 weeks (10 times)

Abbreviations:

**Indicates an intervention (e.g. provision of DAA) or a healthcare provider that contributed to the intervention for some participants only.*

? : intervention provider or location unclear.

DAA: dose administration aid (a multi-compartment pillbox/calendar pack/compliance aid).

G2: group 2 only.

G3: group 3 only.

Type and timing of outcome assessment

Study ID	Primary outcomes				Longest follow-up time point measured (~months)	Secondary outcomes						
	<u>Medication-taking ability</u>		<u>Adherence</u>			Knowledge	Satisfaction	HRQoL	Adverse event	Condition outcome	Cost effectiveness	Other
	Objective	Subjective	Objective	Subjective								
Al-Rashed 2002			x		3	x			x			
Begley 1997	x		x		12	x						
Bernsten 2001			*	x	18	x	x	x	x		x	
Blalock 2010				x	12					x		
Bond 2007				x	12	x	x	x		x	x	
Cargill 1992	x		x		1 to 1.5							
Chrischilles 2014				x	6				x			x
Cohen 2011			x		6			x		x		
Cossette 2015				x	1				x			
George 2016				x	1		x					
Grymonpre 2001			x		6	x						
Haag 2016				x	1				x			
Hale 2016				x	3			x	x			
Hanlon 1996				x	12	x	x	x	x			
Holland 2007				x	6		x	x	x			
Khdour 2009				x	12	x		x	x			

Krska 2001				x	3			x				
Lee 2006			x		6					x		
Lim 2004				x	2	x			x			
Lingler 2016	x				2		x					x
Lipton 1994				x	3				x		x	
Lopez Cabezas 2006			x		12		x	x	x		x	
Manning 2007		x			0.5	x	x					
Marek 2013			x		12			x				
Marusic 2013			x		1				x			
Messerli 2016			x		6.5	x			x			
Moral 2015			x		6							x
Morales Suarez-Vurela 2009				x	2							
Murray 1993			x		6				x			
Muth 2016				x	3			x	x			
Nascimento 2016				x	6					x		
Naunton 2003				x	3		x		x			
Nazareth 2001				x	6	x	x		x			
Olesen 2014			x		12				x			
Pandey 2017				x	12							
Pereles 1996	x		x		1	x						
Rich 1996			x		1				x			

Saez de la Fuente 2011			x	1.5				x			
Shimp 2012		x		12							
Shively 2013			x	6				x			
Taylor 2003			x	12	x	x	x	x	x		x
Truelove 2015			x	18							
Vinluan 2015		x		3				x			
Volume 2001			x	12		x	x				
Willeboordse 2017			x	6		x	x	x			
Williams, 2012		x		9					x		
Winland-Brown 2000		x		6				x			
Wood 1992		x		3							
Wu 2006			x	2				x			
Young 2016			x	6				x			

**Indicates outcome was assessed for subgroup only*