

## Reasons for study exclusion

Exclusion category	Study	Quantity
<b>Study requested, but not available</b>	(1) Fick et al. 2015	1
<b>Single intervention</b>	(2) Goldberg et al. 2014	1
<b>Exclusively education programm/measurement</b>	(3) Cooley et al. 2016 (4) Palmer et al. 2014 (5) Pizzacalla et al. 2015 (6) Tabet et al. 2005 (7) Van der Steeg et al. 2014 (8) Wilkerson et al. 2014 (9) Yevchak et al. 2012	7
<b>Language</b> (Englisch/German not available)	(10) Bonaventura et al. 2007 (Italian language) (11) Chi et al. 2015 (Chinese language) (12) Hwang et al. 2015 (Korean language) (13) Navarrete et al. 2016 (Spanish language)	4
<b>Exclusively volunteer-based approaches</b>	(14) Caplan et al. 2007 (15) Gorski et al. 2017 (16) Sandhaus et al. 2010 (17) Steunenberget al. 2016	4
<b>Exclusively family-based approaches</b>	(18) Martinez et al. 2012 (19) Paulen et al. 2016 (20) Rosenbloom-Brunton et al. 2010	3
<b>Not delirium-specific</b>	(21) Rubin et al. 2006 (22) Stenvall et al. 2012	2
<b>Inappropriate to research question</b>	(23) Borgardus et al. 2003 (long-term-effects) (24) Pretto et al. 2009 (workload nurses) (25) Van Velthuisen et al. 2017 (Retrospective data collection of provided interventions, not based on a program) (26) Yevchak et al. 2017 (qualitatively derived themes)	4
<b>Repeated data use of original study</b>	(27) Pitkälä et al. 2008	1
<b>External expert team</b> Intervention approaches that were not provided by health care professionals of a ward team: consultation, liaison, co-treatment, cross-department cooperation, cross-sectoral cooperation provided by external experts (with or without the combination of voluntary support)	(28) Angel et al. 2016 (29) Bakker et al. 2014 (30) Baldwin et al. 2004 (31) Björkelund et al. 2010 (32) Booth et al. 2019 (33) Cole et al. 1994 (34) Cole et al. 2002 (35) Deschodt et al. 2012 (36) Inouye et al. 1999 (37) Inouye et al. 2000 (38) Marcantonio et al. 2001 (39) Mouchoux et al. 2011 (40) Naughton et al. 2005 (41) Yoo et al. 2014 (42) Zaubler et al. 2013	15
<b>Specialized geriatrician wards/areas</b> with unique architecture or surroundings, special fittings, e.g. "delirium room"	(43) Chong et al. 2014 (44) Goldberg et al. 2013 (45) Mudge et al. 2012	3
<b>Other specialized wards/areas</b> (Day clinics, rehabilitation facilities, psychiatric hospital, long-term care, home care, oncology, palliative care, hospice, emergency, intensive care, maternity/child care)	(46) Balas et al. 2014 (47) Bergmann et al. 2005 (48) Ferguson et al. 2018 (mixed Setting) (49) Kolanowski et al. 2016Ka	4
<b>No original studies</b> (study report/surveys/summeries)	(50) Hasemann et al. 2010 (51) Hasemann et al. 2013 (52) Menzies et al. 2012 (53) Inouye et al. 1993 (54) Inouye et al. 2004	5
<b>Different target groups</b> (e.g. people with cancer)	(55) Chen et al. 2011 (56) Chen et al. 2017	2
<b>Summary</b>		<b>56</b>