Additional File 4: Risk of Bias and GRADE assessments

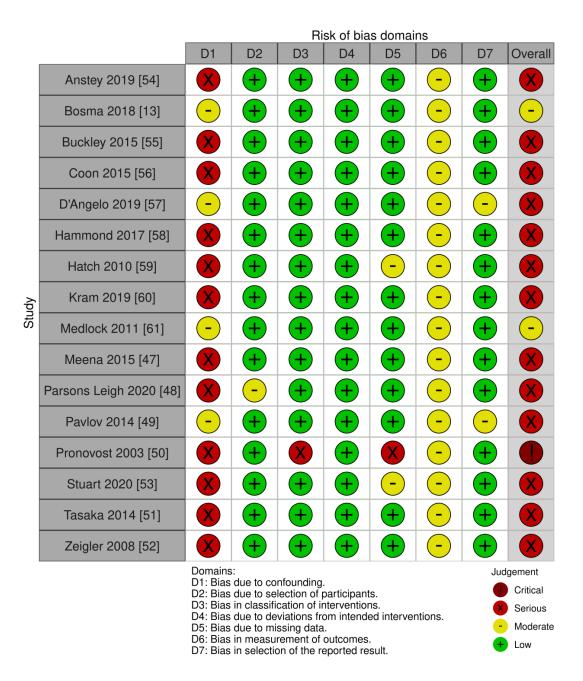


Figure S1. Robvis representation of ROBINS-I risk of bias assessments of non-randomised controlled trial studies

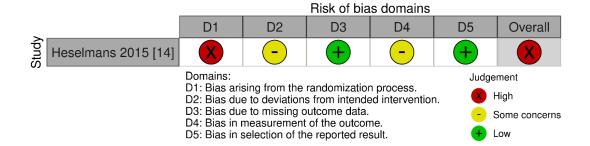


Figure S2. Robvis representation of ROB2.0 risk of bias assessments of the randomised controlled trial study

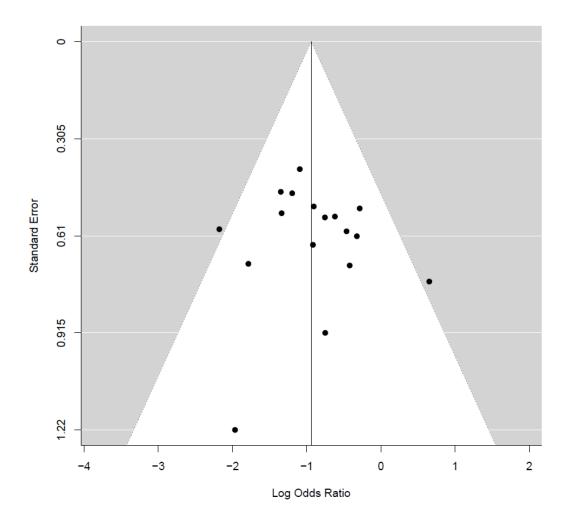


Figure S3. Funnel plot of the treatment effect estimates from individual studies included in the meta-analysis

Certainty assessment							Effect	Certainty
Nº of	Study	Risk of	Inconsisten	Indirectne	Imprecisi	Other	Odds Ratio	
studi	design	bias	су	SS	on	considerati	(OR)	
es						ons	(95% CI)	
Main meta-analysis. All de-escalation studies - ICU discharge inappropriate medication therapy								
9	observatio	very	not serious	serious ^b	not	strong	OR 0.45	$\Theta\ThetaOO$
	nal studies	seriou			serious	association ^c	(0.31 to	LOW
		s ^a					0.63)	
Main meta-analysis. All de-escalation studies - Hospital discharge inappropriate medication therapy								
9	observatio	very	serious ^d	serious ^b	not	strong	OR 0.39	\oplus
	nal studies	seriou			serious	association ^c	(0.2 to	0
		s ^a					0.76)	VERY
								LOW
Sub-group meta-analysis. Multicomponent de-escalation studies - ICU discharge inappropriate medication								
therapy								
3	observatio	very	not serious	not	not	strong	OR 0.37	$\Theta\Theta\Theta\Theta$
	nal studies	seriou		serious	serious	association ^c	(0.23 to	MODERA
		s ^a					0.59)	TE
Subgroup meta-analysis. Multicomponent de-escalation studies - Hospital discharge inappropriate medication								
therapy								
6	observatio	very	not serious	not	not	strong	OR 0.26	$\Theta\Theta\Theta\Theta$
	nal studies	seriou		serious	serious	association ^c	(0.13 to	MODERA
		s ^a					0.55)	TE
Subgroup meta-analysis. Single component de-escalation studies - ICU discharge inappropriate medication								
therapy								
5	observatio	very	not serious	serious ^b	not	strong	OR 0.42	$\oplus \oplus \bigcirc \bigcirc$
	nal studies	seriou			serious	associationc	(0.24 to	LOW
		s ^a					0.74)	
Subgroup meta-analysis. Single component de-escalation studies - Hospital discharge inappropriate								
medication therapy								
3	observatio	very	not serious	serious ^b	not	None	OR 0.77	\oplus
	nal studies	seriou			serious		(0.16 to 3.7	0
		s ^a					4)	VERY
								LOW

Table S3: Meta-analysis GRADE assessments

Explanations

^aHigh-risk of bias on ROBINS-I (downgraded 2 levels)

^bSignificant variability in intervention components and timing of delivery (downgraded 1 level)

^cLarge effect – OR <0.5 (upgraded 1 level)

^dHeterogeneity (I² ≥75%) (downgraded 1 level)