

Supplementary Online Content

Doupnik SK, Rudd B, Schmutte T, et al. Association of suicide prevention interventions with subsequent suicide attempts, linkage to follow-up care, and depression symptoms for acute care settings. *JAMA Psychiatry*. Published online June 17, 2020.
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eTable 1. Complete search strategy for Ovid/Medline

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This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1. Complete search strategy for Ovid/Medline

#	Searches	Results
1	preven*.mp. or exp primary prevention/ or exp secondary prevention/	2193468
2	suicide/ or suicidal ideation/ or suicide, attempted/	55929
3	exp Self-Injurious Behavior/	68697
4	(behaviors self-destructive or behaviors self-injurious or deliberate self harm or suicide or suicides).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]	75656
5	2 or 3 or 4	84078
6	1 and 5	19544
7	exp clinical trial/	846661
8	clinical trial.ti,ab.	112871
9	7 or 8	895792
10	6 and 9	664
11	limit 10 to yr="2000 -Current"	563
12	limit 11 to english language	539

(preven*.mp. or exp primary prevention/ or exp secondary prevention/) AND (suicide/ or suicidal ideation/ or suicide, attempted/) OR (exp Self-Injurious Behavior/) OR (behaviors self-destructive or behaviors self-injurious or deliberate self harm or suicide or suicides).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, organism supplementary concept word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms] AND (exp clinical trial/) OR (clinical trial.ti,ab.) AND (limit 10 to yr="2000 -Current") AND (limit to english language)

Note: Search completed on December 31, 2019

eTable 2. Risk of Bias Assessment

Author and Year	Random sequence generation	Allocation concealment	Selective reporting	Other bias	Blinding of participants and personnel	Blinding of outcome assessment	Incomplete outcome data
Armitage 2016 ¹	low	low	low	low	high	low	medium
Asarnow 2011 ²	low	low	low	low	high	low	medium
Bryan 2017 ³	low	medium	medium	low	medium	low	high
Comtois 2019 ⁴	low	low	low	medium ^a	medium	low	medium
Currier 2010 ⁵	medium	low	low	low	medium	low	medium
Grupp-Phelan 2019 ⁶	low	low	low	low	medium	low	high
Grupp-Phelan 2012 ⁷	low	low	low	medium ^b	medium	low	high
King 2015 ⁸	low	low	low	low	medium	medium	high
Miller 2017 ⁹	high	high	low	low	medium	low	high
O'Connor 2018 ¹⁰	medium	high	low	high ^c	medium	medium	medium
Ougrin 2011 ¹¹	low	low	low	low	high	low	medium
Spirito 2002 ¹²	medium	medium	medium	low	medium	medium	high
Stanley 2015 ¹³	high	high	low	high ^d	medium	low	low
Stanley 2018 ¹⁴	medium	medium	low	high ^e	medium	low	low

a. Source of other bias for Comtois 2019: analysis plan and protocol changed during the study

b. Source of other bias for Grupp-Phelan 2012: High nonparticipation rate

c. Source of other bias for O'Connor 2018: Limited information was provided about inclusion criteria therefore other bias may have been introduced, even if the sample was randomized.

d. Source of other bias for Stanley 2015: A patients' ED visit in the 3 months before the intervention visit served as a comparison for the intervention visit.

e. Source of other bias for Stanley 2018: Comparison sites matched to intervention sites were identified after the intervention was integrated into clinical workflow at intervention sites.

eTable 3. Values used to calculate estimates of effect size

Author and Year						
Depression at follow-up	Intervention <i>n</i>	Intervention group depression score at follow-up (Standard Deviation)	Control <i>n</i>	Control group depression score at follow-up (Standard Deviation)	Hedges' G (95% CI)	Study methods for obtaining outcome data
Armitage 2016 ¹	75	BDI: 16.65 (5.92)	73	BDI: 17.78 (6.51)	.18 (-.14-.50)	Patient self-report
Asarnow 2011 ²	89	CESD: 24.6 (14.3)	92	CESD: 22.7 (14.2)	-.13 (-.42-.16)	Patient self-report
Currier 2010 ⁵	58	HRSD: 37.49 (9.4)	64	HRSD: 40.44 (10.34)	.30 (-.06-.65)	Patient self-report
Grupp-Phelan 2019 ⁶	80	CESD: 16.1 (10.6)	79	CESD: 16.7 (11.4)	.33 (.03-3.23)	Patient self-report
Grupp-Phelan 2012 ⁷	13	CESD: 18.16 (6.5)	11	CESD: 24.18 (13.2)	.57 (-.25-1.40)	Patient and caregiver self-report
King 2015 ⁸	27	RADS-2 SF: 25.38 (4.7)	22	RADS-2 SF: 30.87 (4.0)	1.23 (.61-1.84)	Patient self-report
Linkage to follow-up care	Intervention <i>n</i>	Intervention <i>n</i> with linkage to follow-up care	Control <i>n</i>	Control <i>n</i> with linkage to follow-up care	OR (95% CI)	Study methods for obtaining outcome data
Asarnow 2011 ²	76	70	84	64	3.65 (1.38-9.65)	Caregiver (or patient if caregiver unavailable) report
Currier 2010 ⁵	56	39	64	19	5.43 (2.48-11.88)	Medical record review
Grupp-Phelan 2019 ⁶	80	29	79	22	1.47 (.75-2.88)	Caregiver report
Grupp-Phelan 2012 ⁷	11	7	13	2	9.63 (1.38-67.25)	Patient, caregiver and mental health agency report
Ougrin 2011 ¹¹	35	29	35	17	5.12 (1.70-15.39)	Medical record review (and service manager report if medical record unavailable)
O'Connor 2018 ¹⁰	23	15	25	8	3.98 (1.20-13.24)	Patient self-report

Linkage to follow-up care	Intervention <i>n</i>	Intervention <i>n</i> with linkage to follow-up care	Control <i>n</i>	Control <i>n</i> with linkage to follow-up care	OR (95% CI)	Study methods for obtaining outcome data
Spirito 2002 ¹²	29	27	34	31	1.30 (.20-8.41)	Patient, caregiver and treatment provider report.
Stanley 2015 ¹³	96	81	96	66	2.45 (1.22-4.94)	Medical record review
Stanley 2018 ¹⁴	1186	1008	454	354	1.6 (1.22-2.10)	Medical record review
Subsequent suicide attempt	Intervention <i>n</i>	Intervention <i>n</i> without subsequent SA	Control <i>n</i>	Control <i>n</i> without subsequent SA	OR (95%) CI	Study methods for obtaining outcome data
Asarnow 2011 ²	89	85	92	87	1.22 (.32-4.70)	Patient (or caregiver if patient unavailable) self-report
Bryan 2017 ³	33	31	32	27	2.87 (.51-16.01)	Patient self-report
Comtois 2019 ⁴	329	308	328	294	1.70 (.96-2.99)	Patient self-report
Grupp-Phelan 2019 ⁶	80	77	79	78	.33 (.03-3.23)	Patient self-report
Miller 2017 ⁹	501	410	497	383	1.33 (.97-1.80)	Both patient self-report and medical record review
O'Connor 2018 ¹⁰	23	21	25	23	.91 (.12-7.07)	Patient self-report
Stanley 2018 ¹⁴	1186	1150	454	430	1.78 (1.05-3.02)	Medical record review

Abbreviations:

BDI – Beck Depression Inventory

CESD – Center for Epidemiologic Studies – Depression Scale

CI – Confidence interval

HRSD – Hamilton Rating Scale for Depression

n – sample size

RADS-2 SF – Reynolds Adolescent Depression Scale, version 2, short form

SA – Suicide Attempt

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