

The Columbia Lighthouse Project/Center for Suicide Risk Assessment

The Columbia Suicide Severity Rating Scale (C-SSRS)

Supporting Evidence

Last Revised
12-12-2019

Contents

THE COLUMBIA SUICIDE SEVERITY RATING SCALE (C-SSRS): PSYCHOMETRIC EVIDENCE	3
TABLE 1: STUDIES SUPPORTING SPECIFIC PSYCHOMETRIC PROPERTIES	3
TABLE 2: PSYCHOMETRIC PROPERTIES OF THE C-SSRS IDEATION AND BEHAVIOR WITH COEFFICIENTS	4
REFERENCES FOR PSYCHOMETRIC EVIDENCE	8
LINGUISTIC AND PSYCHOMETRIC VALIDATION OF THE C-SSRS TRANSLATIONS	10
COLUMBIA SUICIDE SEVERITY RATING SCALE VERSIONS - FEASIBILITY	10
<i>C-SSRS Clinical Practice Screener</i>	10
<i>C-SSRS Self-Report</i>	11
THE COLUMBIA SUICIDE SEVERITY RATING SCALE (C-SSRS): DIAGNOSTIC AND TREATMENT-MONITORING EFFECTIVENESS	12
C-SSRS TRAINING PROGRAM EVALUATIONS	12
C-SSRS REPRESENTATIVE PUBLICATIONS: DEMOGRAPHIC AND CLINICAL POPULATIONS, SETTINGS, TREATMENT EFFICACY AND ASSESSMENT GUIDELINES	13
<i>Pediatric Populations by Age Group</i>	13
<i>Studies with Adolescents and Young Adults</i>	16
DEMOGRAPHIC GROUPS	16
SCHOOL PROTOCOLS	16
MEDICAL SPECIALTIES	17
<i>Neurology</i>	17
<i>Oncology</i>	17
<i>Psoriasis</i>	17
PSYCHIATRIC CONDITIONS	17
<i>Alzheimer’s</i>	17
<i>ADHD</i>	17
<i>Alcohol</i>	18
<i>Autism</i>	18
<i>Bipolar Depression</i>	18
<i>Complicated Grief</i>	18
<i>Generalized Anxiety Disorder (GAD)</i>	18
<i>Perinatal/Postpartum Depression</i>	18
<i>Psychosis/Schizophrenia</i>	18
<i>PTSD</i>	19
<i>Sleep</i>	19
HEALTHCARE SYSTEMS	19

OUTPATIENT SETTINGS	19
<i>Outpatient Psychiatry</i>	19
<i>Integrated Primary Care</i>	19
<i>Veterans</i>	19
<i>Forensic Settings</i>	20
<i>Juvenile Justice</i>	20
EMERGENCY DEPARTMENTS	20
IN-PATIENT PSYCHIATRIC SETTINGS	21
MOBILE CRISIS	21
TELEMEDICINE	21
TREATMENT EFFICACY FOR SUICIDAL OUTCOMES	21
REGULATORY GUIDELINES FOR TREATMENT & ASSESSMENT OF SUICIDAL OUTCOMES	22
REVIEWS OF SUICIDE RISK ASSESSMENT TOOLS	22
CROSS-CULTURAL SETTINGS	22

The Columbia Suicide Severity Rating Scale (C-SSRS): Psychometric Evidence

Table 1: Studies Supporting Specific Psychometric Properties

Psychometric Property		Studies
Clinical Utility	Predictive and/or Incremental Validity	Brent et al., 2009 [^] ; Posner et al., 2011 ^{*^} ; Gipson et al., 2015 [^] ; Conway et al. 2016 [^] ; Horwitz et al., 2015 [^] ; Mundt et al., 2013 [*] ; Arias et al. 2013 [*] ; Greist et al. 2014 [*] ; Brown et al., 2015 [*] ; Arias et al., 2016 [*] ; Madan et al. 2016 [*]
	Sensitivity to Change	Posner et al., 2011 ^{*^} ; Ionescu et al., 2016 [*] ; Lindh et al, 2019 [*]
	Sensitivity and Specificity	Posner et al., 2011 ^{*^} ; Mundt et al., 2013 [*] ; Viguera et al. 2015 [*] ; Madan et al. 2016 [*] ; Lindh et al, 2019 [*]
	Positive and Negative Predictive Value (PPV & NPV)	Mundt et al 2013 [*] ; Viguera et al 2015 [*] ;
Reliability (internal consistency)		Posner et al., 2011 ^{*^} ; Kilincaslan et al. 2018 [^] ; Pai et al. 2015 [*] ; Madan et al. 2016 [*]
Reliability (inter-rater; multi-method agreement)		Kerr et al., 2013 [^] ; Brent et al., 2009 [^] ; Kilincaslan et al. 2018 [^] ; Hesdorffer et al., 2013 [*] ; Arias et al., 2013 [*] ; Brown et al. 2015 [*]
Internal Structure (Factor Analysis)		Al-Halabi et al., 2016b [*] ; Madan et al. 2016 [*]
Convergent Validity & Accuracy		Posner et al., 2011 ^{*^} ; Kerr et al., 2013 [^] ; Kilincaslan et al. 2018 [^] ; Pai et al. 2015 [*] ; Youngstrom et al. 2015 [*] ; Brown et al., 2015 [*] ; Madan et al.2016 [*]
Divergent & Discriminant Validity		Posner et al., 2011 ^{*^} ; Kerr et al., 2013 [^] ; Kilincaslan et al. 2018 [^]
Cross-Cultural Validation		Danish (Conway et al. 2016 [^]); Turkish (Kilincaslan et al. 2018 [^]); Korean (Pai et al. 2015 [*]); Spanish (Al-Halabi et al ., 2016ab [*])

* studies include adult samples; [^] studies include pediatric samples

Table 2: Psychometric Properties of the C-SSRS Ideation and Behavior with Coefficients

Predictive Validity - Suicidal Ideation			
	Predictor	Criterion	Coefficients
Greist et al. 2014	<i>None Reported</i>	Actual, interrupted or aborted attempts	All patients: 0.8% incidence rate, N=4975 Psychiatric patients: 1.1% incidence rate, N=3184
	<i>Wish to Be Dead</i>	Actual, interrupted or aborted attempts	OR= 6.21, 95% CI = 4.18 – 9.23, p <0.001 OR= 4.99, 95% CI = 3.29 – 7.56, p <0.001
	<i>Non-Specific Active Thoughts</i>	Actual, interrupted or aborted attempts	OR= 6.69, 95% CI = 4.16 – 10.76, p <0.001 OR= 5.53, 95% CI = 3.38-9.04, p <0.001
	<i>Active with any methods (not plan) w/o intent to act</i>	Actual, interrupted or aborted attempts	OR= 11.16, 95% CI = 7.43-16.76, p <0.001 OR= 8.36, 95% CI = 5.44-12.84, p <0.001
	<i>Active with Some Intent to Act, without specific plan</i>	Actual, interrupted or aborted attempts	OR= 19.27, 95% CI = 12.97 – 28.63, p <0.001 OR= 15.24, 95% CI = 10.07-23.09, p <0.001
	<i>Active with specific plan and intent</i>	Actual, interrupted or aborted attempts	OR= 25.53, 95% CI = 16.94 – 38.47, p <0.001 OR= 18.70, 95% CI = 12.16 – 28.76, p <0.001
Posner et al. 2011 (TASA study N=124, ages 12-18)	<i>Baseline worst-point</i>	Attempts	OR=1.45, 95% CI=1.07-1.98, p=0.02
		Actual, interrupted and aborted attempts	OR=1.34, 95% CI=1.05-1.70, p=0.02
	<i>Lifetime severity</i>	Attempts	OR=1.43, 95% CI=0.99-2.05, p=0.05
	<i>Severity 4-5 (any intent to act)</i>	Attempts	OR=3.26, 95% CI=1.02-10.45, p=0.047
Actual, interrupted and aborted attempts		OR= 3.26, 95% CI=1.07-7.12, p=0.036	
Horwitz et al. 2015 (N=473, ages 15-24)	<i>Ideation severity 1 to 5</i>	Attempt	OR= 1.51, 95% CI= 1.24-1.84, p<0.001
Arias et al. 2016	<i>Current ideation severity 4 or 5 (with intent to die)</i>	Actual attempt or suicide 6 weeks post-ED visit	OR=1.70 95% CI 1.18-2.44, p =.004
		Actual, interrupted, aborted attempts, suicide or preparatory behavior	OR =1.52 95%CI 1.23-1.86 p <. 001

Madan et al. 2016: (N=1,055 adult psych in-patients)	<i>Most severe ideation within 72 hours of hospitalization</i>	Any suicide behavior within 6 months post hospitalization	$r = .165, p < .01, N=275$
		Psychiatric re-hospitalization within 6 months	$r = .125, p < .05, N=275$
Conway et al. 2016: (N=85 adolescents, age < 18, mean age=16.2)	Severity of ideation (1-5)	Any type of suicidal behavior at follow-up	OR= 1.66, 95% CI= 1.13-2.44, $p < 0.05$
	Ideation with intent to act (4 or 5)		OR= 7.76, 95% CI= 1.66-36.23, $p < 0.01$
	Ideation intensity total score		OR= 1.27, 95% CI= 1.04-1.54, $p < 0.05$
Predictive Validity - Suicidal Behavior			
	Predictor	Criterion	Coefficients
Horwitz et al. 2015: (N=473, ages 15-24)	<i>Attempt</i>	Attempt	OR=4.80, 95% CI = 2.23-10.32, $p < 0.001$
	<i>NSSIB item</i>	Attempt	OR=3.12, 95% CI = 1.36-7.19, $p < 0.01$
Gipson et al. 2014 (N=178, ages 13-17)	<i>NSSIB item</i>	Return ER visit	OR = 1.52; 95% CI, 1.08-2.12, $p < .05$
		Attempt	$\chi^2 = 4.131, df = 1, p = 0.04$
Conway et al. 2016 (N=85, age < 18, mean age=16.2)	<i>Attempts</i>	Re-attempt [short-term]	OR= 11.50, 95% CI= 1.66-79.65, $p < 0.05$
Greist et al. 2014	<i>Attempt</i>	Actual, interrupted or aborted attempts	OR=4.57, 95% CI = 3.6-5.7, $p < 0.001$
	<i>Interrupted Attempt</i>	Actual, interrupted or aborted attempts	OR=5.55, 95% CI = 4.4-7.0, $p < 0.001$
	<i>Aborted Attempt</i>	Actual, interrupted or aborted attempts	OR=5.09, 95% CI = 4.1-6.4, $p < 0.001$
	<i>Preparatory behavior</i>	Actual, interrupted or aborted attempts	OR=5.69, 95% CI = 4.3-7.5, $p < 0.001$

Incremental Validity and Accuracy	
Brent et al., (2009): Treatment resistant, depressed adolescent suicide attempters (N=334, ages 12-18)	<ul style="list-style-type: none"> Higher rates of suicidal (20.8% vs. 8.8%, chi squared= 9.18, df=1, p<0.002) and non-suicidal self-injury (17.6% vs. 2.2%, chi squared= 23.47, df=1, p<0.001) detected with systematic monitoring
Horwitz et al. (2015): Young adult psychiatric emergency patients (N=473, ages 15-24)	<ul style="list-style-type: none"> Suicidal ideation added incremental validity to the prediction of future suicide attempts beyond the past suicide attempt, $X^2(1) = 7.54$, $p = .006$
Brown et al. (2015): psychiatric ER patients (N=250)	<ul style="list-style-type: none"> 18% (n=23) of patients with a suicide attempt in the past week misclassified or missed by clinical assessment. Agreement with clinical assessment for suicide attempts ($K=0.76$, $p<.001$) Agreement with clinical assessment of non-suicidal self-injurious behavior ($K=0.72$, $p<.001$)
Arias et al. (2013): 497 ER adult patients with suicidal thoughts or attempt(s)	<ul style="list-style-type: none"> 41% increase in the detection of suicide attempts compared to chart reviews (59% vs. 18%, difference of 41%, 95% CI= 28-55, $p<0.001$)

Reliability - Suicidal Ideation (inter-rater and multi-method agreement)		
Study	Ideation Type	Coefficients
Brent et al. (2009) (N=334, ages 12-18)	<i>suicidal ideation ranging from 0 to 5 (from no ideation to suicidal ideation with intent and a clear plan) monitored weekly</i>	ICC = .09, $p< 0.001$
Kilincaslan et al. 2018 (N=213, ages 12-18)	<i>Inter-rater reliability for the <u>most severe ideation scores</u> in the last month and lifetime were good</i>	Lifetime $\kappa = 0.92$ Recent $\kappa = 0.88$
Youngstrom et al. (2015)	<i>Accuracy calibrated against "missing gold standard" latent class-derived ideation and behavior categories</i>	$\kappa > 0.7$
Hesdorffer et al. (2013)	<i>Agreement between the MINI, C-SSRS and eC-SSRS for lifetime <u>suicidal ideation</u></i>	$\kappa = 0.80$, 95% CI = 0.72-0.89

Gwaltney et al. (2017) (N=86, ages >18)	<i>Equivalence analyses/multi-method agreement between IVR (interactive voice response) and tablet text-based eC-SSRS for <u>most severe lifetime ideation</u></i>	Correlation: 0.87, p<0.001 ICC: $\kappa = 0.89$, p<0.001
	<i>Equivalence analyses between IVR (interactive voice response) and tablet text-based eC-SSRS for <u>most severe ideation in past 6 months</u></i>	Correlation: 0.69, p<0.001 ICC: $\kappa = 0.79$, p<0.001
Reliability - Suicidal Behavior		
Gwaltney et al. (2017) (N=86, ages >18)	<i>Equivalence analyses/multi-method agreement between IVR (interactive voice response) and tablet text-based eC-SSRS for lifetime Actual attempts</i>	$\kappa = 0.81$, p<0.001
	<i>Number of lifetime actual attempts</i>	$\kappa = 0.81$, p<0.001
	<i>Actual attempts (recent-last 2 yrs)</i>	$\kappa = 0.73$, p<0.001
	<i>Interrupted attempts (lifetime)</i>	$\kappa = 0.78$, p<0.001
	<i>Interrupted attempts (recent-last 2 yrs)</i>	$\kappa = 0.762$, p<0.001
	<i>Aborted attempts (lifetime)</i>	$\kappa = 0.54$, p<0.001
	<i>Aborted attempts (recent-last 2 yrs)</i>	$\kappa = 0.74$, p<0.001
	<i>Preparatory behaviors (lifetime)</i>	$\kappa = 0.77$, p<0.001
	<i>Preparatory behaviors (recent-last 2 yrs)</i>	$\kappa = 0.89$, p<0.001
	<i>Non-suicidal, self-injurious behavior</i>	$\kappa = 0.73$, p<0.001
Brent et al. (2009) (N=334, ages 12-18)	<i>Inter-rater reliability for a rating of <u>suicidal behavior, ranging from 0 to 5</u> (no behavior to multiple attempts during the assessment period) using the Columbia Classification Algorithm of Suicide Assessment</i>	100% agreement
Kerr et al. (2014a,b) (N=155, ages 13-17)	<i>Inter-rater agreement for distinction among <u>actual, aborted, interrupted attempts, preparatory acts and any other act</u></i>	$\kappa = 0.88$; $\kappa = .91$

Brown et al. (2015)	<i>Agreement with clinical assessment for <u>attempts</u></i>	$\kappa = 0.76, P < .001$
	<i>Agreement with clinical assessment for <u>non-suicidal self-injurious behavior</u></i>	$\kappa = 0.72, P < .001$
Youngstrom et al. (2015)	<i>Accuracy of <u>attempt</u>: calibrated against latent class-derived categories</i>	$\kappa > 0.8$
Hesdorffer et al. (2013)	<i>Agreement between the MINI, C-SSRS and eC-SSRS for lifetime <u>suicidal behavior</u></i>	$\kappa = 0.67, 95\% \text{ CI} = 0.53\text{-}0.80$

References for Psychometric Evidence

- Al-Halabí, S., Sáiz, P. A., Burón, P., Garrido, M., Benabarre, A., Jiménez, E., ... & Muñiz, J. (2016a). Validación de la versión en español de la Columbia-Suicide Severity Rating Scale (Escala Columbia para Evaluar el Riesgo de Suicidio). *Revista de Psiquiatría y Salud Mental*.
- Al-Halabi, S., Fernández-Peláez, AD, Burón, P., Riesco, E., Rodríguez-Revuelta, J. Posner, K. Oquendo, M., García-Portilla, MP, Saiz, P. and Bobes, J (September, 2016b). In Search of the Internal Structure of the Columbia Suicide Severity Rating Scale (C-SSRS): A Confirmatory Factor Analysis Approach. *16th European Symposium on Suicide Suicidal Behavior*, Oviedo, Spain.
- Arias, S. A., Miller, I., Camargo Jr, C. A., Sullivan, A. F., Goldstein, A. B., Allen, M. H., ... & Boudreaux, E. D. (2016). Factors Associated with Suicide Outcomes 12 Months After Screening Positive for Suicide Risk in the Emergency Department. *Psychiatric Services*, 67 (2): 206-213.
- Arias SA, Zhang Z, Hillerns C, Sullivan AF, Boudreaux ED, Miller I, Camargo CA (2014). Using Structured Telephone Follow-up Assessments to Improve Suicide-Related Adverse Event Detection. *Suicide and Life-Threatening Behavior* 44(5): 537-47.
- Brent D, Emslie G, Clarke G, Rosenbaum Asarnow J, Spirito A, Ritz L, Vitiello B, Iyengar S, Birmaher B, Ryan N, Zelazny J, Onorato M, Kennard B, Mayes T, DeBar L, McCracken J, Strober M, Suddath R, Leonard H, Porta G, Keller M (2009) Predictors of Spontaneous and Systematically Assessed Suicidal Adverse Events in the Treatment of SSRI Resistant Depression in Adolescents (TORDIA) Study. *American Journal of Psychiatry* 166(4): 418-426.
- Brown GK, Currier GW, Jager-Hyman S, et al. (2015) Detection and classification of suicidal behavior and nonsuicidal self-injury behavior in emergency departments. *J Clin Psychiatry* 76(10):1397–1403.
- Conway, P. M., Erlangsen, A., Teasdale, T. W., Jakobsen, I. S., & Larsen, K. J. (2016). Predictive Validity of the Columbia-Suicide Severity Rating Scale for Short-Term Suicidal Behavior: a Danish study of adolescents at a high risk of suicide. *Archives of suicide research*, 1-15.
- Esposito, L. June 5, 2015. Strides in Suicide Prevention, U.S. News & World Report
- Gipson PY, Agarwala P, Opperman KJ, Horwitz A, King CA, (2015). Columbia-Suicide Severity Rating Scale: Predictive Validity with Adolescent Psychiatric Emergency Patients. *Pediatric Emergency Care* 31(2): 88-94.
- Greist, J. H., Mundt, J. C., Gwaltney, C. J., Jefferson, J. W., & Posner, K. (2014). Predictive Value of Baseline Electronic Columbia–Suicide Severity Rating Scale (eC–SSRS) Assessments for Identifying Risk of Prospective Reports of Suicidal Behavior During Research Participation. *Innovations in Clinical Neuroscience*, 11(9-10), 23–31.

11. Gwaltney, C., Mundt, J. C., Greist, J. H., Paty, J., & Tiplady, B. (2017). Interactive Voice Response and Text-based Self-report Versions of the Electronic Columbia-Suicide Severity Rating Scale Are Equivalent. *Innovations in clinical neuroscience*, 14(3-4), 17.
12. Harvey, P. D., Posner, K., Rajeevan, N., Yershova, K. V., Aslan, M., & Concato, J. (2018). Suicidal ideation and behavior in US veterans with schizophrenia or bipolar disorder. *Journal of Psychiatric Research*.
13. Hesdorffer DC, French, JA, Posner K, DiVentura B, Pollard J, Sperling MR, Harden CL, Krauss GL, Kanner AM (2013). Suicidal Ideation and behavior screening in intractable focal epilepsy eligible for drug trials. *Epilepsia* 54(5): 879-87.
14. Horwitz, A. G., Czyz, E. K., & King, C. A. (2015). Predicting future suicide attempts among adolescent and emerging adult psychiatric emergency patients. *Journal of Clinical Child & Adolescent Psychology*, 44(5), 751-761.
15. Ionescu, D. F., Swee, M. B., Pavone, K. J., Taylor, N., Akeju, O., Baer, L., ... & Brown, E. N. (2016). Rapid and sustained reductions in current suicidal ideation following repeated doses of intravenous ketamine: secondary analysis of an open-label study. *The Journal of clinical psychiatry*.
16. Kerr DCR, Gibson B, Leve LD, DeGarmo DS (2013). Young Adult Follow-up of Adolescent Girls in Juvenile Justice Using the Columbia Suicide Severity Rating Scale. *Suicide and Life Threatening Behavior* 44(2): 113-129.
17. Kerr, D. C., DeGarmo, D. S., Leve, L. D., & Chamberlain, P. (2014). Juvenile justice girls' depressive symptoms and suicidal ideation 9 years after multidimensional treatment foster care. *Journal of consulting and clinical psychology*, 82(4), 684.
18. Kilincaslan, A., Gunes, A., Eskin, M., & Madan, A. (2018). Linguistic adaptation and psychometric properties of the Columbia-Suicide Severity Rating Scale among a heterogeneous sample of adolescents in Turkey. *The International Journal of Psychiatry in Medicine*, 0091217418791454.
19. Legarreta, M., Graham, J., North, L., Bueler, C. E., McGlade, E., & Yurgelun-Todd, D. (2015). DSM-5 posttraumatic stress disorder symptoms associated with suicide behaviors in veterans. *Psychological trauma: theory, research, practice, and policy*, 7(3), 277.
20. Madan, A., Frueh, B. C., Allen, J. G., Ellis, T. E., Rufino, K. A., Oldham, J. M., & Fowler, J. C. (2016). Psychometric reevaluation of the Columbia-Suicide Severity Rating Scale: findings from a prospective, inpatient cohort of severely mentally ill adults. *Journal of clinical psychiatry*, 77(7), e867-e873.
21. Mundt JC, Greist JH, Jefferson JW, Federica M, Mann JJ, Posner K (2013). Prediction of Suicidal Behavior in Clinical research by Lifetime Suicidal ideation and Behavior Ascertained by the Electronic Columbia-Suicide Severity Rating Scale. *Journal of Clinical Psychiatry* 74(9):887-93.
22. Posner K, Brown GK, Stanley B, Brent DA, Yershova KV, Oquendo MA, Currier GW, Melvin GA, Greenhill L, Shen S, Mann JJ (2011). The Columbia-Suicide Severity Rating Scale: Initial Validity and Internal Consistency Findings from Three Multisite Studies with Adolescents and Adults. *American Journal of Psychiatry* 168(12): 1266-77.
23. Prakash, A., Lobo, E., Kratochvil, C. J., Tamura, R. N., Pangallo, B. A., Bullok, K. E., ... & March, J. S. (2012). An open-label safety and pharmacokinetics study of duloxetine in pediatric patients with major depression. *Journal of child and adolescent psychopharmacology*, 22(1), 48-55.
24. Seck, H. H. (2015, April 2). Marine suicides down 22 percent in 2014. *Marine Corps Times*. Retrieved from <https://www.marinecorpstimes.com/story/military/benefits/health-care/2015/04/02/marine-suicides-down-22-percent-2014/70790448/>
25. US. Utah Department of Human Services. Division of Substance Abuse and Mental Health. *State Suicide Prevention Programs FY 2015 Report*. By Thomas, D., & Meyers, K. (2015), pp. 1-11.
26. Viguera, A. C., Milano, N., Laurel, R., Thompson, N. R., Griffith, S. D., Baldessarini, R. J., & Katzan, I. L. (2015). Comparison of electronic screening for suicidal risk with the Patient Health Questionnaire Item 9 and the Columbia Suicide Severity Rating Scale in an outpatient psychiatric clinic. *Psychosomatics*, 56(5), 460-469.
27. Youngstrom, E. A., Hameed, A., Mitchell, M. A., Van Meter, A. R., Freeman, A. J., Algorta, G. P., ... & Meyer, R. E. (2015). Direct comparison of the psychometric properties of multiple interview and patient-rated assessments of suicidal ideation and behavior in an adult psychiatric inpatient sample. *The Journal of clinical psychiatry*, 76(12), 1676-1682.

Linguistic and Psychometric Validation of the C-SSRS Translations

- Gratalup, G., Fernander, N., Fuller, D.S. and Posner, K (2013). Translation of the Columbia Suicide Severity Rating Scale for Use in 33 Countries. ISCTM 9th Annual Scientific Meeting, Washington D.C.
- Al-Halabí, S., Sáiz, P. A., Burón, P., Garrido, M., Benabarre, A., Jiménez, E., ... & Muñoz, J. (2016). Validación de la versión en español de la Columbia-Suicide Severity Rating Scale (Escala Columbia para Evaluar el Riesgo de Suicidio). *Revista de Psiquiatría y Salud Mental*, 9(3), 134-142.
- Al-Halabi, S., Fernández-Peláez, AD, Burón, P., Riesco, E., Rodríguez-Revuelta, J. Posner, K. Oquendo, M., García-Portilla, MP, Saiz., P. and Bobes, J (September, 2016). In Search of the Internal Structure of the Columbia Suicide Severity Rating Scale (C-SSRS): A Confirmatory Factor Analysis Approach. *16th European Symposium on Suicide Suicidal Behavior*, Oviedo, Spain. **[Spanish]**
- Conway, P. M., Erlangsen, A., Teasdale, T. W., Jakobsen, I. S., & Larsen, K. J. (2016). Predictive Validity of the Columbia-Suicide Severity Rating Scale for Short-Term Suicidal Behavior: a **Danish** study of **adolescents** at a high risk of suicide. *Archives of suicide research*, 1-15.
- Gunes A, Kilincaslan A, Eskin M (2015). Psychometric Properties of the **Turkish** Version of Columbia-Suicide Severity Rating Scale Among **12-18 year-old** adolescents in Turkey. AACAP 62nd Annual Meeting, San Antonio, TX.
- Pai, D., Woo, J. M., Son, M. H., & Lee, C. (2015). The Reliability and Validity of the Korean Version of Columbia-Suicide Severity Rating Scale in Alcohol Dependent Patients. *Journal of Korean Neuropsychiatric Association*, 54(2), 222-227.

Columbia Suicide Severity Rating Scale Versions - Feasibility

(adapted versions)

C-SSRS Clinical Practice Screener

- Katz, I., Barry, C. N., Cooper, S. A., Kaspro, W. J., & Hoff, R. A. (2019). Use of the Columbia-Suicide Severity Rating Scale (C-SSRS) in a large sample of Veterans receiving mental health services in the Veterans Health Administration. *Suicide and Life-Threatening Behavior*.
- Brahmhatt, K., Kurtz, B. P., Afzal, K. I., Giles, L. L., Kowal, E. D., Johnson, K. P., ... & Workgroup, P. (2019). Suicide risk screening in pediatric hospitals: clinical pathways to address a global health crisis. *Psychosomatics*, 60(1), 1-9.
- Keaton, S. A., Madaj, Z. B., Heilman, P., Smart, L., Grit, J., Gibbons, R., ... & Brundin, L. (2019). An inflammatory profile linked to increased suicide risk. *Journal of affective disorders*, 247, 57-65.
- Imran, J. B., Richmond, R. E., Madni, T. D., Roaten, K., Clark, A. T., Huang, E., ... & Eastman, A. L. (2018). Determining Suicide Risk in Trauma Patients Using a Universal Screening Program. *The journal of trauma and acute care surgery*.
- Henderson, J. L., Cheung, A., Cleverley, K., Chaim, G., Moretti, M. E., de Oliveira, C., ... & Herzog, T. (2017). Integrated collaborative care teams to enhance service delivery to youth with mental health and substance use challenges: protocol for a pragmatic randomised controlled trial. *BMJ*, 7(2).
- Roaten, K., Johnson, C., Genzel, R., Khan, F., & North, C. S. (2017). Development and implementation of a universal suicide risk screening program in a safety-net hospital system. *The Joint Commission Journal on Quality and Patient Safety*.
- Wilson, N. J. (2017). The Columbia-Suicide Severity Rating Scale: Validation for use as a screen for suicide risk in New Zealand prisons and probation settings. *The New Zealand Corrections Journal*, Vol. 5 Issue 2.

- Omolewa, P., & Tribble, K. L. The Impact of C-SSRS (Columbia-Suicidal Severity Rating Scale) Usage on Quality of Care in John George Psychiatric Hospital (San Leandro, CA): a Medical Care Evaluation Study.
- Chang, B. P., & Tan, T. M. (2015). Suicide screening tools and their association with near-term adverse events in the ED. *The American journal of emergency medicine*, 33(11), 1680-1683. [self-report screener]

C-SSRS Self-Report

("paper" non-adaptive version, i.e. not eCSSRS)

- Roaten, K., Johnson, C., Genzel, R., Khan, F., & North, C. S. (2017). Development and implementation of a universal suicide risk screening program in a safety-net hospital system. *The Joint Commission Journal on Quality and Patient Safety*.
- DeVlyder, J. E., Jahn, D. R., Doherty, T., Wilson, C. S., Wilcox, H. C., Schiffman, J., & Hilimire, M. R. (2015). Social and psychological contributions to the co-occurrence of sub-threshold psychotic experiences and suicidal behavior. *Social psychiatry and psychiatric epidemiology*, 1-12. [study adapted self-report]
- Viguera, A. C., Milano, N., Laurel, R., Thompson, N. R., Griffith, S. D., Baldessarini, R. J., & Katzan, I. L. (2015). Comparison of electronic screening for suicidal risk with the Patient Health Questionnaire Item 9 and the Columbia Suicide Severity Rating Scale in an outpatient psychiatric clinic. *Psychosomatics*, 56(5), 460-469.
- Nock, M. K., Ursano, R. J., Heeringa, S. G., Stein, M. B., Jain, S., Raman, R., ... & Gilman, S. E. (2015). Mental disorders, comorbidity, and pre-enlistment suicidal behavior among new soldiers in the US Army: results from the Army Study to Assess Risk and Resilience in Service members (Army STARRS). *Suicide and life-threatening behavior*, 45(5), 588-599.
- Chang, B. P., & Tan, T. M. (2015). Suicide screening tools and their association with near-term adverse events in the ED. *The American journal of emergency medicine*, 33(11), 1680-1683. [self-report screener]

The Columbia Suicide Severity Rating Scale (C-SSRS): Diagnostic and Treatment-Monitoring Effectiveness

C-SSRS as an Effective Measure for Diagnosis & Treatment	Veterans Legarreta et al., 2015	<ul style="list-style-type: none"> The association of specific PTSD symptoms with suicidal ideation and behavior suggested individual PTSD symptoms as treatment target for reducing suicidal outcomes.
	Veterans Harvey et al., 2018	<ul style="list-style-type: none"> A lifetime history of suicidal ideation and behavior was higher among the Vets with Bipolar Disorder (82.3%, N=5414) than Schizophrenia (69.9%, N=3942) The highest risk was found for patients with multiple psychiatric comorbidities (OR = 2.61 for ideation; OR = 3.82 for behavior). Clinical factors (e.g., psychiatric comorbidity) contributed more of the variance in the predictive model than demographic factors.
	Medication Treatment Ionescu et al. (2016) Prakash et al. (2012)	<ul style="list-style-type: none"> Ketamine treatment effective for suicidal ideation (SI) in adults SI severity improved <u>independent</u> of acute decrease in depression and SI intensity improved <u>even if SI severity un-remitted</u> Duloxetine was effective in treating suicidal ideation among children ages 7-17 with major depression Distinguished children with improvement and deterioration

C-SSRS Training Program Evaluations

- Fesi, J. D., Morrison, S. U. (2018, 04). Guardians At the Gate: Evaluating Suicide Risk Assessment Training in the United States Marine Corps. 2018 American Association of Suicidology 51st Annual Conference, Washington D.C.
- Mirick, R. G., Bridger, J., McCauley, J., & Berkowitz, L. (2016). Continuing Education on Suicide Assessment and Crisis Intervention for Social Workers and Other Mental Health Professionals: A Follow-Up Study. *Journal of Teaching in Social Work*, 36(4), 363-379.
- Mirick, R., McCauley, J., Bridger, J., & Berkowitz, L. (2015). Continuing education on suicide assessment and crisis intervention: what can we learn about the needs of mental health professionals in community practice? *Community mental health journal*, 1-10.

C-SSRS Representative Publications: Demographic and Clinical Populations, Settings, Treatment Efficacy and Assessment Guidelines

Pediatric Populations by Age Group

Ages 5-11

- Glennon, J., Purper-Ouakil, D., Bakker, M., Zuddas, A., Hoekstra, P., Schulze, U., ... & Coghill, D. (2014). Paediatric European Risperidone Studies (PERS): context, rationale, objectives, strategy, and challenges. *European child & adolescent psychiatry*, 23(12), 1149-1160. [also includes 12-17.5 age group]
- Proskurina, T., Mykhailova, E., Matkovska, T., Reshetovska, N., & Matkovska, A. (2016). Clinical and psychopathological risk factors for the development of recurrent depression in children at puberty. *European Psychiatry*, 33, S145-S146.

Ages 6-12

- Buchanan, J., Burke, T., Camacho, K., Yershova, K., Lazzaretto, D., Posner, K. (2013) Preschool Bullying and Victimization as Predictors of Suicidal Ideation in School Age: 6-year Follow-Up of the Preschool Attention Deficit/Hyperactivity Disorder Treatment Study (PATS). *1st Annual Meeting of the International Academy for Suicide Research*, Montreal, Canada.
- Childress, A. C., Wigal, S. B., Brams, M. N., Turnbow, J. M., Pincus, Y., Belden, H. W., & Berry, S. A. (2018). Efficacy and safety of amphetamine extended-release oral suspension in children with attention-deficit/hyperactivity disorder. *Journal of child and adolescent psychopharmacology*, 28(5), 306-313.

Ages 6-17

- Glennon, J., Purper-Ouakil, D., Bakker, M., Zuddas, A., Hoekstra, P., Schulze, U., ... & PERS Consortium. (2014). Paediatric European Risperidone Studies (PERS): context, rationale, objectives, strategy, and challenges. *European child & adolescent psychiatry*, 23(12), 1149-1160.
- Sangal, R. B., Blumer, J. L., Lankford, D. A., Grinnell, T. A., & Huang, H. (2014). Eszopiclone for insomnia associated with attention-deficit/hyperactivity disorder. *Pediatrics*, 134(4), e1095-e1103.

Ages 6-18

- Wigal, S. B., Nordbrock, E., Adjei, A. L., Childress, A., Kupper, R. J., & Greenhill, L. (2015). Efficacy of Methylphenidate Hydrochloride Extended-Release Capsules (Aptensio XR™) in Children and Adolescents with Attention-Deficit/Hyperactivity Disorder: A Phase III, Randomized, Double-Blind Study. *CNS drugs*, 29(4), 331-340.

Ages 7-13

- Weinstein, S. M., Henry, D. B., Katz, A. C., Peters, A. T., & West, A. E. (2015). Treatment moderators of child-and family-focused cognitive-behavioral therapy for pediatric bipolar disorder. *Journal of the American Academy of Child & Adolescent Psychiatry*, 54(2), 116-125.

Ages 7-17

- Strawn, J. R., Prakash, A., Zhang, Q., Pangallo, B. A., Stroud, C. E., Cai, N., & Findling, R. L. (2015). A randomized, placebo-controlled study of duloxetine for the treatment of children and adolescents with generalized anxiety disorder. *Journal of the American Academy of Child & Adolescent Psychiatry*, 54(4), 283-293.

- Emslie, G. J., Prakash, A., Zhang, Q., Pangallo, B. A., Bangs, M. E., & March, J. S. (2014). A double-blind efficacy and safety study of duloxetine fixed doses in children and adolescents with major depressive disorder. *Journal of child and adolescent psychopharmacology*, 24(4), 170-179.
- Prakash, A., Lobo, E., Kratochvil, C. J., Tamura, R. N., Pangallo, B. A., Bullok, K. E., ... & March, J. S. (2012). An open-label safety and pharmacokinetics study of duloxetine in pediatric patients with major depression. *Journal of child and adolescent psychopharmacology*, 22(1), 48-55.

Ages 7-18 (for the pediatric sub-sample; also includes studies with adults)

- Gibbons, R. D., Brown, C. H., Hur, K., Davis, J. M., & Mann, J. J. (2012). Suicidal thoughts and behavior with antidepressant treatment: reanalysis of the randomized placebo-controlled studies of fluoxetine and venlafaxine. *Archives of general psychiatry*, 69(6), 580-587.

Ages 8-12

- Davis, N. O., Bower, J., Kollins, S. H. (2018). Proof-of-concept study of an at-home, engaging, digital intervention for pediatric ADHD. *PLoS ONE*, 13(1).

Ages 10-18

- Scott, M., Underwood, M., & Lamis, D. A. (2015). Suicide and Related-Behavior Among Youth Involved in the Juvenile Justice System. *Child and Adolescent Social Work Journal*, 32(6), 517-527.
- Jakobsen, I. S., Larsen, K. J., & Horwood, J. L. (2017). Suicide Risk Assessment in Adolescents—C-SSRS, K10, and READ. *Crisis*.

Ages 11-17

- Goodyer, I. M., Tsancheva, S., Byford, S., Dubicka, B., Hill, J., Kelvin, R., ... & Wilkinson, P. (2011). Improving mood with psychoanalytic and cognitive therapies (IMPACT): a pragmatic effectiveness superiority trial to investigate whether specialised psychological treatment reduces the risk for relapse in adolescents with moderate to severe unipolar depression: study protocol for a randomised controlled trial. *Trials*, 12(1), 175.

Ages 12-17

- Findling, R. L., Cutler, A. J., Saylor, K., Gasior, M., Hamdani, M., Ferreira-Cornwell, M. C., & Childress, A. C. (2013). A long-term open-label safety and effectiveness trial of lisdexamfetamine dimesylate in adolescents with attention-deficit/hyperactivity disorder. *J of child and adolescent psychopharmacology*, 23(1), 11-21.
- Findling, R.L., A. Robb, and A. Bose, *Escitalopram in the treatment of adolescent depression: a randomized, double-blind, placebo-controlled extension trial*. *J Child Adolesc Psychopharmacol*, 2013. 23(7): p. 468-80.
- Emslie, G. J., Ventura, D., Korotzer, A., & Tourkodimitris, S. (2009). Escitalopram in the treatment of adolescent depression: a randomized placebo-controlled multisite trial. *Journal of the American Academy of Child & Adolescent Psychiatry*, 48(7), 721-729.

Ages 12-17.5

- Glennon, J., Purper-Ouakil, D., Bakker, M., Zuddas, A., Hoekstra, P., Schulze, U., ... & Coghill, D. (2014). Paediatric European Risperidone Studies (PERS): context, rationale, objectives, strategy, and challenges. *European child & adolescent psychiatry*, 23(12), 1149-1160.

Ages 12-18

- Posner, K., Brown, G. K., Stanley, B., Brent, D. A., Yershova, K. V., Oquendo, M. A., ... & Mann, J. J. (2011). The Columbia–Suicide Severity Rating Scale: initial validity and internal consistency findings from three multisite studies with adolescents and adults. *American Journal of Psychiatry*, 168(12), 1266-1277.

- Brent, D., Emslie, G., Clarke, G., Asarnow, J., Spirito, A., Ritz, L., ... & Keller, M. (2009). Predictors of spontaneous and systematically assessed suicidal adverse events in the treatment of SSRI-resistant depression in adolescents (TORDIA) study. *American Journal of Psychiatry*, 166(4), 418-426.
- Brent, D. A., Greenhill, L. L., Compton, S., Emslie, G., Wells, K., Walkup, J. T., ... & Turner, J. B. (2009). The Treatment of Adolescent Suicide Attempters study (TASA): predictors of suicidal events in an open treatment trial. *Journal of the American Academy of Child & Adolescent Psychiatry*, 48(10), 987-996.
- Patel, A., Watts, C., Shiddell, S., Couch, K., Smith, A. M., Moran, M. J., & Conners, G. P. (2017). Universal adolescent suicide screening in a pediatric urgent care center. *Archives of suicide research*, 1-10. **[ages 12-19]**
- Gunes A, Kilincaslan A, Eskin M (2015). Psychometric Properties of the Turkish Version of Columbia-Suicide Severity Rating Scale Among 12-18 year-old adolescents in Turkey. AACAP 62nd Annual Meeting, San Antonio, TX.

Ages 13-17

- King, C. A., Jiang, Q., Czyz, E. K., & Kerr, D. C. (2014). Suicidal ideation of psychiatrically hospitalized adolescents has one-year predictive validity for suicide attempts in girls only. *Journal of abnormal child psychology*, 42(3), 467-477.
- Gipson, P. Y., Agarwala, P., Opperman, K. J., Horwitz, A., & King, C. A. (2014). Columbia-Suicide Severity Rating Scale: Predictive Validity with Adolescent Psychiatric Emergency Patients. *Pediatric emergency care*, 31:2, 88-93.
- Rabinovitch, S. M., Kerr, D. C., Leve, L. D., & Chamberlain, P. (2014). Suicidal behavior outcomes of childhood sexual abuse: Longitudinal study of adjudicated girls. *Suicide and life-threatening behavior*.
- Pestian, J. P., Grupp-Phelan, J., Bretonnel Cohen, K., Meyers, G., Richey, L. A., Matykiewicz, P., & Sorter, M. T. (2016). A controlled trial using natural language processing to examine the language of suicidal adolescents in the emergency department. *Suicide and life-threatening behavior*, 46(2), 154-159.

Ages 13-19

- Croarkin, P. E., Nakonezny, P. A., Deng, Z. D., Romanowicz, M., Voort, J. L. V., Camsari, D. D., ... & Lewis, C. P. (2018). High-frequency repetitive TMS for suicidal ideation in adolescents with depression. *Journal of affective disorders*, 239, 282-290.

Ages 14-19

- Kondo, D. G., Sung, Y. H., Hellem, T. L., Fiedler, K. K., Shi, X., Jeong, E. K., & Renshaw, P. F. (2011). Open-label adjunctive creatine for female adolescents with SSRI-resistant major depressive disorder: a 31-phosphorus magnetic resonance spectroscopy study. *Journal of affective disorders*, 135(1), 354-361. **[ages 14-18]**
- Kaplow, J. B., Gipson, P. Y., Horwitz, A. G., Burch, B. N., & King, C. A. (2014). Emotional suppression mediates the relation between adverse life events and adolescent suicide: Implications for prevention. *Prevention Science*, 15(2), 177-185.
- King, C. A., Berona, J., Czyz, E., Horwitz, A. G., & Gipson, P. Y. (2015). Identifying Adolescents at Highly Elevated Risk for Suicidal Behavior in the Emergency Department. *Journal of child and adolescent psychopharmacology*.

Studies with Adolescents and Young Adults

Ages 13-25

- Czyz, E. K., Horwitz, A. G., Arango, A., Cole-Lewis, Y., Berona, J., & King, C. A. (2016). Coping with suicidal urges among youth seen in a psychiatric emergency department. *Psychiatry research*, 241, 175-181.

Ages 14-39

- Lucas, M. S., Brawner, B. M., Hardie, T. L., Beacham, B., Paidipati, C., Diaz, M., ... & Deatrck, J. A. (2015, September). Assessing Suicidal Ideation and Behaviors Among Survivors of Childhood Brain Tumors and Their Mothers During Sociobehavioral Research. In *Oncology nursing forum* (Vol. 42, No. 5, pp. E319-29).

Ages 15-20

- Gray, K. M., Carpenter, M. J., Lewis, A. L., Klntworth, E. M., & Upadhyaya, H. P. (2012). Varenicline versus bupropion XL for smoking cessation in older adolescents: A randomized, double-blind pilot trial. *Nicotine & Tobacco Research*, 14(2), 234-239.

Ages 15-24

- Horwitz, A. G., Czyz, E. K., & King, C. A. (2015). Predicting future suicide attempts among adolescent and emerging adult psychiatric emergency patients. *Journal of Clinical Child & Adolescent Psychology*, 44:5, 751-761.

Ages 20-22

- Cáceda, R., Durand, D., Cortes, E., Prendes-Alvarez, S., Moskovciak, T., Harvey, P. D., & Nemeroff, C. B. (2014). Impulsive choice and psychological pain in acutely suicidal depressed patients. *Psychosomatic medicine*, 76(6), 445-451.

Demographic Groups

Asian Americans

- Maru, M., Saraiya, T., Lee, C.S., Meghani, O., Hien, D. and Hahm, H.C., 2018. The relationship between intimate partner violence and suicidal ideation among young Chinese, Korean, and Vietnamese American women. *Women & Therapy*, pp.1-17.

School Protocols

- Stargell, N. A, Zoldan C. A., Kress, V. E., Walker-Andrews, M., and Whisenhunt, J. L. (2017). Student Non-Suicidal Self-Injury: A Protocol for School Counselors (Conceptual). *Professional School Counseling*, 21(1), 37-46.

Medical Specialties

Neurology

- Hesdorffer, D. C., French, J. A., Posner, K., DiVentura, B., Pollard, J. R., Sperling, M. R., & Kanner, A. M. (2013). "Suicidal ideation and behavior screening in intractable focal **epilepsy** eligible for drug trials." *Epilepsia*, 1-9.
- Pereira, A., Gitlin, M. J., Gross, R. A., Posner, K., & Dworkin, R. H. (2013). "Suicidality associated with antiepileptic drugs: Implications for the treatment of **neuropathic pain and fibromyalgia**." *PAIN*[®], 154(3), 345-349.
- Skljarevski, V., Zhang, S., Desai, D., Alaka, K. J., Palacios, S., Miazgowski, T., & Patrick, K. (2010). Duloxetine versus placebo in patients with **chronic low back pain**: a 12-week, fixed-dose, randomized, double-blind trial. *The Journal of Pain*, 11(12), 1282-1290.
- Legarreta, M., Bueler, E., DiMuzio, J., McGlade, E. and Yurgelun-Todd, D., 2018. Suicide Behavior and Chronic Pain: An Exploration of Pain-Related Catastrophic Thinking, Disability, and Descriptions of the Pain Experience. *The Journal of nervous and mental disease*, 206(3), pp.217-222.
- Dale, M., & van Duijn, E. (2015). Anxiety in **Huntington's** disease. *The Journal of neuropsychiatry and clinical neurosciences*, 27(4), 262-271.
- van Duijn, E., Vrijmoeth, E. M., Giltay, E. J., Landwehrmeyer, G. B., & Registry investigators of the European **Huntington's** Disease Network. (2018). Suicidal ideation and suicidal behavior according to the C-SSRS in a European cohort of Huntington's disease gene expansion carriers. *Journal of affective disorders*, 228, 194-204.

Oncology

- Lucas, M. S., Brawner, B. M., Hardie, T. L., Beacham, B., Paidipati, C., Diaz, M., ... & Deatrck, J. A. (2015, September). Assessing Suicidal Ideation and Behaviors Among Survivors of **Childhood Brain Tumors** and Their Mothers During Sociobehavioral Research. In *Oncology nursing forum* (Vol. 42, No. 5, pp. E319-29).

Psoriasis

- Pompili, M., Innamorati, M., Forte, A., Erbuto, D., Lamis, D. A., Narcisi, A., ... & Bellini, S. (2017). Psychiatric comorbidity and suicidal ideation in psoriasis, melanoma and allergic disorders. *International journal of psychiatry in clinical practice*, 21(3), 209-214.

Psychiatric Conditions

Alzheimer's

- Nave, S., Doody, R. S., Boada, M., Grimmer, T., Savola, J. M., Delmar, P., ... & Ricci, B. (2017). Sembragiline in Moderate Alzheimer's Disease: Results of a Randomized, Double-Blind, Placebo-Controlled Phase II Trial (MAYfIOWer RoAD). *Journal of Alzheimer's Disease*, (Preprint), 1-12.
- Delnomdedieu, M., Duvvuri, S., Li, D. J., Atassi, N., Lu, M., Brashear, H. R., ... & Kupiec, J. W. (2016). First-In-Human safety and long-term exposure data for AAB-003 (PF-05236812) and biomarkers after intravenous infusions of escalating doses in patients with mild to moderate Alzheimer's disease. *Alzheimer's research & therapy*, 8(1), 12.
- Kim, S. Y., Choi, S. H., Rollema, H., Schwam, E. M., McRae, T., Dubrava, S., & Jacobsen, J. (2013). Phase II crossover trial of varenicline in mild-to-moderate **Alzheimer's** disease. *Dementia and geriatric cognitive disorders*, 37(3-4), 232-245.

ADHD

- Wigal, S. B., Nordbrock, E., Adjei, A. L., Childress, A., Kupper, R. J., & Greenhill, L. (2015). Efficacy of methylphenidate hydrochloride extended-release capsules (Aptensio XR™) in **children and adolescents with attention-deficit/hyperactivity disorder**: A phase III, randomized, double-blind study. *CNS drugs*, 29(4), 331-340.

- Sangal, R. B., Blumer, J. L., Lankford, D. A., Grinnell, T. A., & Huang, H. (2014). Eszopiclone for insomnia associated with **attention-deficit/hyperactivity disorder**. *Pediatrics*, 134(4), e1095-e1103.
- Davis, N. O., Bower, J., Kollins, S. H. (2018). Proof-of-concept study of an at-home, engaging, digital intervention for pediatric ADHD. *PLoS ONE*, 13(1).

Alcohol

- Khemiri, L., Jokinen, J., Runeson, B., & Jayaram-Lindström, N. (2016). Suicide risk associated with experience of violence and impulsivity in alcohol dependent patients. *Scientific reports*, 6, 19373.

Autism

- Danforth, A. L., Struble, C. M., Yazar-Klosinski, B., & Grob, C. S. (2015). MDMA-assisted therapy: A new treatment model for social anxiety in autistic adults. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*.

Bipolar Depression

- Harvey, P. D., Siever, L. J., Huang, G. D., Muralidhar, S., Zhao, H., Miller, P., ... & Brophy, M. (2014). The genetics of functional disability in schizophrenia and bipolar illness: methods and initial results for VA cooperative study# 572. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, 165(4), 381-389.
- Earley, W., Durgam, S., Lu, K., DeBelle, M., Laszlovszky, I., Vieta, E., & Yatham, L. N. (2017). Tolerability of Cariprazine in the Treatment of Acute Bipolar I Mania: A Pooled Post Hoc Analysis of 3 Phase II/III Studies. *Journal of Affective Disorders*.
- Weinstein, S. M., Henry, D. B., Katz, A. C., Peters, A. T., & West, A. E. (2015). Treatment moderators of child-and family-focused cognitive-behavioral therapy for **pediatric bipolar disorder**. *Journal of the American Academy of Child & Adolescent Psychiatry*, 54(2), 116-125.

Complicated Grief

- Supiano, K. P., & Luptak, M. (2013). Complicated grief in older adults: A randomized controlled trial of complicated grief group therapy. *The Gerontologist*, 54(5), 840-856. (6-item screener version)

Generalized Anxiety Disorder (GAD)

- Strawn, J. R., Prakash, A., Zhang, Q., Pangallo, B. A., Stroud, C. E., Cai, N., & Findling, R. L. (2015). A randomized, placebo-controlled study of duloxetine for the treatment of **children and adolescents with generalized anxiety disorder**. *Journal of the American Academy of Child & Adolescent Psychiatry*, 54(4), 283-293.

Perinatal/Postpartum Depression

- Kaner, S. J., Colquhoun, H., Doherty, J., Raines, S., Hoffmann, E., Rubinow, D. R., & Meltzer-Brody, S. (2017). Open-label, proof-of-concept study of brexanolone in the treatment of severe postpartum depression. *Human Psychopharmacology: Clinical and Experimental*, 32(2).
- Kim, J. J., Silver, R. K., Elue, R., Adams, M. G., La Porte, L. M., Cai, L., ... & Gibbons, R. D. (2016). The experience of depression, anxiety, and mania among perinatal women. *Archives of women's mental health*, 19(5), 883-890.
- Ghahramanlou-Holloway, M., Cox, D. W., Fritz, E. C., & George, B. J. (2011). An evidence-informed guide for working with military women and veterans. *Professional Psychology: Research and Practice*, 42(1), 1.

Psychosis/Schizophrenia

- DeVylder, J. E., Jahn, D. R., Doherty, T., Wilson, C. S., Wilcox, H. C., Schiffman, J., & Hilimire, M. R. (2015). Social and psychological contributions to the co-occurrence of sub-threshold psychotic experiences and suicidal behavior. *Social psychiatry and psychiatric epidemiology*, 1-12. [young adult SELF-REPORT CSSRS]

- Harvey, P. D., Siever, L. J., Huang, G. D., Muralidhar, S., Zhao, H., Miller, P., ... & Brophy, M. (2014). The genetics of functional disability in schizophrenia and bipolar illness: methods and initial results for VA cooperative study# 572. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, 165(4), 381-389.
- Hettige, N. C., Bani-Fatemi, A., Kennedy, J. L., & De Luca, V. (2017). Assessing the risk for suicide in schizophrenia according to migration, ethnicity and geographical ancestry. *BMC Psychiatry*, 17(1), 63.

PTSD

- Legarreta, M., Graham, J., North, L., Bueler, C. E., McGlade, E., & Yurgelun-Todd, D. (2015). DSM–5 posttraumatic stress disorder symptoms associated with suicide behaviors in veterans. *Psychological trauma: theory, research, practice, and policy*, 7(3), 277.

Sleep

- Ellis, T. E., Rufino, K. A., & Nadorff, M. R. (2017). Treatment of Nightmares in Psychiatric Inpatients With Imagery Rehearsal Therapy: An Open Trial and Case Series. *Behavioral Sleep Medicine*, 1-14.
- Sangal, R. B., Blumer, J. L., Lankford, D. A., Grinnell, T. A., & Huang, H. (2014). Eszopiclone for insomnia associated with attention-deficit/hyperactivity disorder. *Pediatrics*, 134(4), e1095-e1103.

Healthcare Systems

- Rossom, R. C., Simon, G. E., Beck, A., Ahmedani, B. K., Steinfeld, B., Trangle, M., & Solberg, L. (2016). Facilitating Action for Suicide Prevention by Learning Health Care Systems. *Psychiatric Services*.

Outpatient Settings

Outpatient Psychiatry

- Viguera, A. C., Milano, N., Laurel, R., Thompson, N. R., Griffith, S. D., Baldessarini, R. J., & Katzan, I. L. (2015). Comparison of electronic screening for suicidal risk with the Patient Health Questionnaire Item 9 and the Columbia Suicide Severity Rating Scale in an outpatient psychiatric clinic. *Psychosomatics*, 56(5), 460-469.

Integrated Primary Care

- Kearney, L. K., Wray, L. O., Dollar, K. M., & King, P. R. (2015). Establishing Measurement-based Care in Integrated Primary Care: Monitoring Clinical Outcomes Over Time. *Journal of clinical psychology in medical settings*, 22(4), 213-227.

Veterans

- Zisook, S., Tal, I., Weingart, K., Hicks, P., Davis, L. L., Chen, P., ... & Pilkinton, P. D. (2016). Characteristics of US Veteran Patients with Major Depressive Disorder who require “next-step” treatments: A VAST-D report. *Journal of Affective Disorders*, 206, 232-240.
- Legarreta, M., Graham, J., North, L., Bueler, C. E., McGlade, E., & Yurgelun-Todd, D. (2015). DSM–5 posttraumatic stress disorder symptoms associated with suicide behaviors in veterans. *Psychological trauma: theory, research, practice, and policy*, 7(3), 277.
- Harvey, P. D., Siever, L. J., Huang, G. D., Muralidhar, S., Zhao, H., Miller, P., ... & Brophy, M. (2014). The genetics of functional disability in schizophrenia and bipolar illness: methods and initial results for VA cooperative study# 572. *American Journal of Medical Genetics Part B: Neuropsychiatric Genetics*, 165(4), 381-389.

Forensic Settings

- SEE ALSO “JUVENILE JUSTICE”
- Wilson, N. J. (2017). The Columbia-Suicide Severity Rating Scale: Validation for use as a screen for suicide risk in New Zealand prisons and probation settings. *Practice*, 5(2).

Juvenile Justice

- Kerr, D. C., Gibson, B., Leve, L. D., & DeGarmo, D. S. (2014). Young adult follow-up of adolescent girls in juvenile justice using the Columbia Suicide Severity Rating Scale. *Suicide and life-threatening behavior*, 44(2), 113-129.
- Kerr, D. C., DeGarmo, D. S., Leve, L. D., & Chamberlain, P. (2014). Juvenile justice girls' depressive symptoms and suicidal ideation 9 years after multidimensional treatment foster care. *Journal of consulting and clinical psychology*, 82(4), 684.
- Rabinovitch, S. M., Kerr, D. C., Leve, L. D., & Chamberlain, P. (2014). Suicidal behavior outcomes of childhood sexual abuse: Longitudinal study of adjudicated girls. *Suicide and life-threatening behavior*.
- Scott, M., Underwood, M., & Lamis, D. A. (2015). Suicide and Related-Behavior Among Youth Involved in the Juvenile Justice System. *Child and Adolescent Social Work Journal*, 32(6), 517-527.

Emergency Departments

- Patel, A., Watts, C., Shiddell, S., Couch, K., Smith, A. M., Moran, M. J., & Conners, G. P. (2017). Universal adolescent suicide screening in a pediatric urgent care center. *Archives of suicide research*, 1-10.
- Pestian, J. P., Grupp-Phelan, J., Bretonnel Cohen, K., Meyers, G., Richey, L. A., Matykiewicz, P., & Sorter, M. T. (2016). A controlled trial using natural language processing to examine the language of suicidal adolescents in the emergency department. *Suicide and life-threatening behavior*, 46(2), 154-159.
- Czyz, E. K., Horwitz, A. G., Arango, A., Cole-Lewis, Y., Berona, J., & King, C. A. (2016). Coping with suicidal urges among youth seen in a psychiatric emergency department. *Psychiatry research*, 241, 175-181.
- Arias, S. A., Miller, I., Camargo Jr, C. A., Sullivan, A. F., Goldstein, A. B., Allen, M. H., ... & Boudreaux, E. D. (2015). Factors Associated with Suicide Outcomes 12 Months After Screening Positive for Suicide Risk in the Emergency Department. *Psychiatric Services*.
- Brown, G. K., Currier, G. W., Jager-Hyman, S., & Stanley, B. (2015). Detection and classification of suicidal behavior and nonsuicidal self-injury behavior in emergency departments. *The Journal of clinical psychiatry*, 76(10), 1-478.
- Horwitz, A. G., Czyz, E. K., & King, C. A. (2015). Predicting future suicide attempts among adolescent and emerging adult psychiatric emergency patients. *Journal of Clinical Child & Adolescent Psychology*, 44(5), 751-761.
- King, C. A., Berona, J., Czyz, E., Horwitz, A. G., & Gipson, P. Y. (2015). Identifying adolescents at highly elevated risk for suicidal behavior in the emergency department. *Journal of child and adolescent psychopharmacology*, 25(2), 100-108.
- Gipson, P. Y., Agarwala, P., Opperman, K. J., Horwitz, A., & King, C. A. (2015). Columbia-suicide severity rating scale: predictive validity with adolescent psychiatric emergency patients. *Pediatric emergency care*, 31(2), 88-94.
- Lim, M., Kim, S. W., Nam, Y. Y., Moon, E., Yu, J., Lee, S., ... & Ahn, Y. M. (2014). Reasons for desiring death: examining causative factors of suicide attempters treated in emergency rooms in Korea. *Journal of affective disorders*, 168, 349-356.
- Ducasse, D., René, E., Béziat, S., Guillaume, S., Courtet, P., & Olié, E. (2014). Acceptance and commitment therapy for management of suicidal patients: a pilot study. *Psychotherapy and psychosomatics*, 83(6), 374-376.

- Boudreaux, E. D., Miller, I., Goldstein, A. B., Sullivan, A. F., Allen, M. H., Manton, A. P., ... & Camargo, C. A. (2013). The emergency department safety assessment and follow-up evaluation (ED-SAFE): method and design considerations. *Contemporary clinical trials*, 36(1), 14-24.
- Posner, K., Brown, G. K., Stanley, B., Brent, D. A., Yershova, K. V., Oquendo, M. A., ... & Mann, J. J. (2011). The Columbia–Suicide Severity Rating Scale: initial validity and internal consistency findings from three multisite studies with adolescents and adults. *American Journal of Psychiatry*, 168(12), 1266-1277.

In-Patient Psychiatric Settings

- Allen, J. G., Fowler, J. C., Madan, A., Ellis, T. E., Oldham, J. M., & Frueh, B. C. (2017). Discovering the impact of psychotherapeutic hospital treatment for adults with serious mental illness. *Bulletin of the Menninger Clinic*, 81(1), 1-38.
- Madan, A., Frueh, B. C., Allen, J. G., Ellis, T. E., Rufino, K. A., Oldham, J. M., & Fowler, J. C. (2016). Psychometric reevaluation of the Columbia-Suicide Severity Rating Scale: findings from a prospective, inpatient cohort of severely mentally ill adults. *Journal of clinical psychiatry*, 77(7), e867-e873.
- Lucas, M. S., Brawner, B. M., Hardie, T. L., Beacham, B., Paidipati, C., Diaz, M., ... & Deatrck, J. A. (2015, September). Assessing Suicidal Ideation and Behaviors Among Survivors of Childhood Brain Tumors and Their Mothers During Sociobehavioral Research. In *Oncology nursing forum* (Vol. 42, No. 5, pp. E319-29).
- Teti, G. L., Rebok, F., Grndas, L. N., Rodante, D., Fogola, A., & Daray, F. M. (2014). Patients hospitalized for suicidal ideation and suicide attempt in a Mental Health Hospital: Clinico-demographical features and 6-month follow-up. *Vertex*, 25(115), 203-212.
- Arias, S. A., Zhang, Z., Hillerns, C., Sullivan, A. F., Boudreaux, E. D., Miller, I., & Camargo, C. A. (2014). Using structured telephone follow-up assessments to improve suicide-related adverse event detection. *Suicide and life-threatening behavior*, 44(5), 537-547.
- King, C. A., Jiang, Q., Cxyz, E. K., & Kerr, D. C. (2014). Suicidal ideation of psychiatrically hospitalized adolescents has one-year predictive validity for suicide attempts in girls only. *Journal of abnormal child psychology*, 42(3), 467-477.
- Cáceda, R., Durand, D., Cortes, E., Prendes-Alvarez, S., Moskovciak, T., Harvey, P. D., & Nemeroff, C. B. (2014). Impulsive choice and psychological pain in acutely suicidal depressed patients. *Psychosomatic medicine*, 76(6), 445-451.
- Ellis, T. E., Rufino, K. A., Allen, J. G., Fowler, J. C., & Jobes, D. A. (2015). Impact of a suicide-specific intervention within inpatient psychiatric care: the Collaborative Assessment and Management of Suicidality. *Suicide and life-threatening behavior*, 45(5), 556-566.

Mobile Crisis

- Muehsam, J. P. (2018). Association between clinical observations and a mobile crisis team's level of care recommendations. *Community Mental Health Journal*, 1-7.

Telemedicine

- Arias SA, Zhang Z, Hillerns C, Sullivan AF, Boudreaux ED, Miller I, Camargo CA (2014). Using Structured Telephone Follow-up Assessments to Improve Suicide-Related Adverse Event Detection. *Suicide and Life-Threatening Behavior*44(5): 537-47.

Treatment Efficacy for Suicidal Outcomes

- Ionescu, D. F., Swee, M. B., Pavone, K. J., Taylor, N., Akeju, O., Baer, L., ... & Brown, E. N. (2016). Rapid and sustained reductions in current suicidal ideation following repeated doses of intravenous ketamine: secondary analysis of an open-label study. *The Journal of clinical psychiatry*.
- Prakash, A., Lobo, E., Kratochvil, C. J., Tamura, R. N., Pangallo, B. A., Bullok, K. E., Quinlan, T., Emslie, G.J. & March, J. S. (2012). An open-label safety and pharmacokinetics study of duloxetine in pediatric patients with major depression. *Journal of Child and Adolescent Psychopharmacology*, 22(1), 48-55.

- Croarkin, P. E., Nakonezny, P. A., Deng, Z. D., Romanowicz, M., Voort, J. L. V., Camsari, D. D., ... & Lewis, C. P. (2018). High-frequency repetitive TMS for suicidal ideation in adolescents with depression. *Journal of affective disorders*, 239, 282-290.

Regulatory Guidelines for Treatment & Assessment of Suicidal Outcomes

- Wasserman, D., Rihmer, Z., Rujescu, D., Sarchiapone, M., Sokolowski, M., Titelman, D., ... & Carli, V. (2012). The European Psychiatric Association (EPA) guidance on suicide treatment and prevention. *European Psychiatry*, 27(2), 129-141.
- US Food and Drug Administration. *Suicidal Ideation and Behavior: Prospective Assessment of Occurrence in Clinical Trials*. <http://www.fda.gov/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/ucm315156.htm>. Rockville, MD: US Department of Health and Human Services; 2012.

Reviews of Suicide Risk Assessment Tools

- Bolton, J. M., Gunnell, D., & Turecki, G. (2015). Suicide risk assessment and intervention in people with mental illness. *British Medical Journal*, 351(8034).
- Posner, K., Buchanan, J., Amira, L., Yershova, K., Lesser, A., Goldstein, E. (2014). Identification and screening of suicide risk. In S. Koslow, C., Nemeroff, P., Ruiz, (eds.), *A Concise Guide to Understanding Suicide: Epidemiology, Pathophysiology and Prevention*. Cambridge University Press.

Cross-Cultural Settings

Latin America (Spanish)

- Teti, G. L., Rebok, F., Grndas, L. N., Rodante, D., Fogola, A., & Daray, F. M. (2014). Patients hospitalized for suicidal ideation and suicide attempt in a Mental Health Hospital: Clinico-demographical features and 6-month follow-up. *Vertex*, 25(115), 203-212.

Australia

- van Spijker, B. A., Caelear, A. L., Batterham, P. J., Mackinnon, A. J., Gosling, J. A., Kerkhof, A. J., ... & Christensen, H. (2015). Reducing suicidal thoughts in the Australian general population through web-based self-help: study protocol for a randomized controlled trial. *Trials*, 16(1), 589-589.

China

- Wang, H., Xue, Y., Chen, Y., Zhang, R., Wang, H., Zhang, Y., ... & Tan, Q. (2013). Efficacy of repetitive transcranial magnetic stimulation in the prevention of relapse of depression: study protocol for a randomized controlled trial. *Trials*, 14(1), 338.

Croatia

- Sisek-Šprem, M. (2012). Demographic characteristics of aggressive patients with schizophrenia. *Socijalna psihijatrija*, 40(3), 213-220.

Ethiopia

- Borba, C. P., Fekadu, A., Teferra, S., Bekele, D., Shibre, T., Oppenheim, C. E., ... & Henderson, D. C. (2014). A placebo-controlled trial of folate with B12 in patients with schizophrenia with residual symptoms in Ethiopia using a sequential parallel comparison design. *British Journal of Medicine and Medical Research*, 4(23), 4090.

France

- Welniarz, B., & Saintoyan, F. (2015). Dépression de l'enfant et de l'adolescent: place du traitement médicamenteux et de l'hospitalisation. *Neuropsychiatrie de l'Enfance et de l'Adolescence*.

Germany

- von Klitzing, K. (2008). Depressionen im Kindes und Jugendalter. *Kinder-und Jugendmedizin*, 8(1), 18-23.

Hungary

- Wasserman, D., Rihmer, Z., Rujescu, D., Sarchiapone, M., Sokolowski, D.T., Zalsman, G., ... & Carli, V. (2012). Az Európai Pszichiátriai Szövetség (European Psychiatric Association, EPA) útmutatója az öngyilkosság kezelésére és megelőzésére. *Neuropsychopharmacol Hung*,14(2), 113-136.

Indonesia

- Pratiwi, J., & Undarwati, A. (2014). SUICIDE IDEATION PADA REMAJA DI KOTA SEMARANG. *Developmental and Clinical Psychology*, 3(1).

India

- Pasi, S., Singh, P. K., Pandey, R. K., Dikshit, P. C., Jiloha, R. C., & Rao, V. R. (2015). Evaluation of psychiatric and genetic risk factors among primary relatives of suicide completers in Delhi NCR region, India. *Psychiatry research*, 229(3), 933-939.
- Bansal, K. (2013). Pre- and Post-Psychosocial Factors of Subjects enrolled in Phase-III Oncology Clinical Trials. *Journal of Academia and Industrial Research (JAIR)*, 2(5), 312.

Korea

- Lim, M., Lee, S., & Park, J. I. (2015). Characteristics of Korean Suicide Attempters. *Journal of Korean Neuropsychiatric Association*, 54(2), 209-215.

Spain

- Teti, G. L., Rebok, F., Grndas, L. N., Rodante, D., Fogola, A., & Daray, F. M. (2014). Patients hospitalized for suicidal ideation and suicide attempt in a Mental Health Hospital: Clinico-demographical features and 6-month follow-up. *Vertex*, 25(115), 203-212.
- Ruiz, V., Torra, M., & Bernardo, M. (2016). Respuesta antipsicótica en trastorno delirante y esquizofrenia: estudio prospectivo de cohortes. *Actas Esp Psiquiatr*, 44(4), 125-35.
- Sáiz, P. A., Rodríguez-Revuelta, J., González-Blanco, L., Burón, P., Al-Halabí, S., Garrido, M., ... & Bobes, J. (2014). Protocolo de estudio de un programa para la prevención de la recurrencia del comportamiento suicida basado en el manejo de casos (PSyMAC). *Revista de Psiquiatría y Salud Mental*, 7(3), 131-138.

Sri Lanka

- Suraweera, C., Hanwella, R., Sivayokan, S., & de Silva, V. (2013). Rating Scales validated for Sri Lankan populations. *Sri Lanka J of Psychiatry*, 4(2), 16-24.