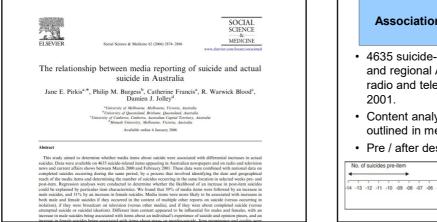
MEDICAL UNIVERSITY OF VIENNA

## Media & suicide: Roles of the narrative and updates to media guidelines

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## Association story contents with suicides

- 4635 suicide-related items appearing in national and regional Australian newspapers and on radio and television news, Mar 2000 to Feb
- Content analysis: Reporting characteristics as outlined in media guidelines
- Pre / after design:

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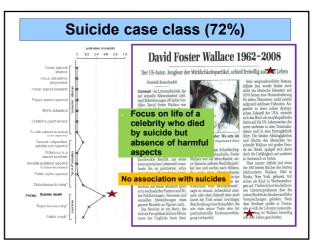


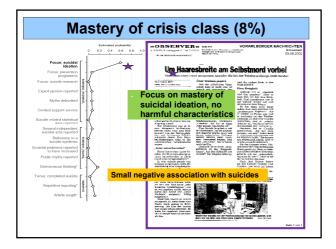
### Associations story contents with suicides

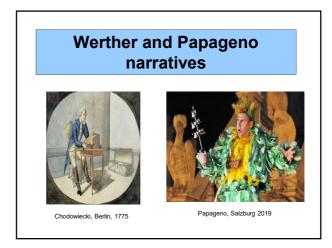
- Associations with increases in suicides:
  - Some specific methods such as hanging and jumping
  - Headline about suicideCelebrity suicide reporting
- Associations with decreases in suicides:
   Homicide-suicide items
  - Reporting on suicidal thoughts as opposed to behaviours
- Some inconsistencies across studies

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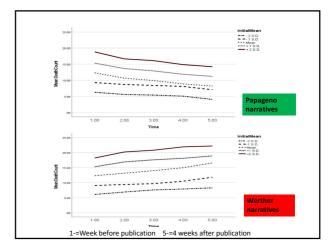




## Is the narrative the message?

- Hawley et al. (2023): Content analysis of 13 Canadian media outlets 2011 to 2014, n=6367 articles on suicide.
- Potentially **harmful narrative** described suicide in a celebrity or a suicide in a non-celebrity including the suicide method.
- Potentially protective narrative included some protective content (e.g. alternatives to suicide) without any information on suicidal behaviour
- · Latent difference score longitudinal multigroup analyses
- Dose-response relationship in which the trajectory of suicides following 'Werther' narratives increased over time, while there was a decline of suicides for protective 'Papageno' narratives.

Hawley LL, Niederkrotenthaler T, Zaheer R, Schaffer A, Redelmeier DA, Levitt AJ, Sareen J, Pirkis J, Sinyor M. Is the narrative the message? The relationship between suicide-related narratives in media reports and subsequent suicides. Aust N Z J Psychiatry. 2023 May;57(5):758-766.



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minutes CR04000212511. Dispation of Type Transforms Our search (yield 7347 records, 3920 records were screened by tille and abstract, and 25 full-text records suscessed for eligibility. There were eight eligible studies with 2369 participants for which individual participant data were worked. The visual ideation, is it turbes met the inclusion circles in for the participant data were worked. The visual ideation, is it turbes met the inclusion circles in for the participant data were available for 550 (00%) of 633 participants data small reduction in suicidal ideation of -0-22 (95% Cl -0-39 to -0-04, p-0-017; six studies) in the intervention groups. For help-seeking atthukes and interiors, four studies met the inclusion circles and follow-04 data weak to be the intervention group and 238 (45%) the incorted 300 (Mindeat data in the intervention group and 238 (45%) the incorted of all distraction between the groups (Mindeat -04 is 505; cm -04 -05; participant data). Low levels of cross-study heterogravity heterostices groups and 234 (45%) the distribution of all distractions of the intervention group and 234 (45%) the distribution of all distractions of the intervention groups and 234 (45%) the distribution of all distractions of the distribution of the intervention groups and 234 (45%) the distribution of all distributions of the distribution of a distributions of the distribution of the distri

<ul> <li>We identified six trials for the outcome suicidal</li> </ul>
ideation (n=569 participants with some
vulnerability to suicide).

- Mean age of participants: 32 years (SD:14: range 18-97). 60% were female.
- Interventions included exposure to video messages (1 study); a TV documentary (1 study); newspaper articles (3 studies); a prevention website (1 study).

			(A) P	rima	ry an	alysis		
	Ir	terventi	on		Control			
Author and year	N	Mean	SD	N	Mean	SD		SMD [95% CI]
Arendt 2016 & Niederkrotenthaler 2015	31	0.49	0.34	20	0.54	0.28	_	-0.16 [-0.72, 0.41]
King 2018	87	22.23	14.01	76	22.53	19.41	-	-0.02 [-0.33, 0.29]
viederkrotenthaler 2020a	6	3.88	1.08	15	4.34	1.09	<u> </u>	-0.42 [-1.38, 0.53]
wederkrotenthaler 2020b	54	3.93	1.17	36	4.47	0.87		-0.51 [-0.94, -0.08]
Till 2017	62	3.34	0.44	17	3.4	0.35		-0.14 [-0.67, 0.40]
Fill 2019	77	2.81	0.67	88	3.02	0.78		-0.28 [-0.58, 0.03]



## Suicide rates after 13RW

Niederkrotenthaler T, Stack S, Till B, Sinyor M, Pirkis J, Garcia D, Rockett IRH, Tran US. Association of Increased Youth Suicides in the United States With the Release of 13 Reasons Why. JAMA Psychiatry. 2019 May 29.

Bridge JA, Greenhouse JB, Ruch D, Stevens J, Ackerman J, Sheftall AH, Horowitz LM, Kelleher KJ, Campo JV. Association Between the Release of Netflix's 13 Reasons Why and Suicide Rates in the United States: An Interrupted Times Series Analysis. J Am Acad Child Adolesc Psychiatry. 2019 Apr 28. pii: S0890-8567(19)30288-6.

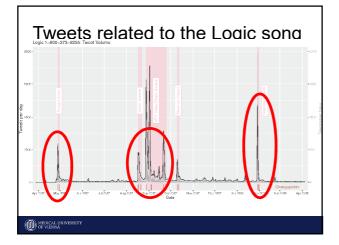
Sinyor M, Williams M, Tran US, Schaffer A, Kurdyak P, Pirkis J, Niederkrotenthaler T. Suicides in Young People in Ontario Following the Release of "13 Reasons Why". Can J Psychiatry. 2019 Aug 21:706743719870507.

Any method Any method	Follow-up	Risk of blas		
	3 months	Moderate	101	1.15 [1.07, 1.23]
	9 months	Moderate		1.25 [1.11, 1.41]
Any method	20 weeks	Serious		1.27 [0.61, 2.63]
Any method	4 days	Serious	•	1.01 [0.98, 1.05]
		Serious		0.93 [0.69, 1.26]
Rail suicide	70 days	Serious		1.74 [1.35, 2.23]
Self-poisoning	3 weeks	Moderate Moderate		1.07 [1.00, 1.15] 1.70 [1.33, 2.18]
				1.17 (0.93, 1.47)
	2 weeks	Serious		1.41 [0.86, 2.30]
	1 week	Serious		1.11 (0.95, 1.30)
Self-poisoning	3 weeks	Serious		1.47 [1.04, 2.07]
(Q = 12.59, df = 1	p < 0.001, I <sup>2</sup> = 92	%)		1.33 [0.84, 2.09]
bias studies (Q =	16.02, df = 5, p = 0	.007, 1 <sup>2</sup> = 73%)	+	1.25 [1.07, 1.47]
				1
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tias sources (or -	10.02, 01 - 5, p - 6	5007, 1 = 13 my		120100.10
	Any method Rail suicide (Q = 1.41, df = 1, ) bias studies (Q = 3 Self-poisoning Any method Self-poisoning Self-poisoning Self-poisoning (Q = 12.59, df = 1,	Any mithod         2 weeks           Rail succide         70 days           O L + 10, 441, 12, 202, 1 <sup>2</sup> - 259(4), 455, p < 0	Any mithod         2 weeks         Serious           Ral suicolo         70 days         Serious           Ral suicolo         70 days         Serious           Lot dir 1, 1 pr. 202, 1 <sup>2</sup> = 20%)         Serious         Serious           Self-poisoning         3 weeks         Moderate           Any mithod         3 months         Moderate           Self-poisoning         3 weeks         Moderate           Any mithod         3 months         Moderate           Self-poisoning         2 weeks         Serious           Any mithod         2 weeks         Serious	Arynethiodi 2 zwests         Serious           Barlsuckite 70 drgs         Serious           (2 - 14.4, of t. 1 p 20.1, i <sup>2</sup> - 29%)         Serious           Saft-policoming         a weeks         Moderate           Arynethiodi 3 anwels         Moderate         Serious           Saft-policoming         a weeks         Moderate           Arynethiodi 3 anwels         Moderate         Serious           Saft-policoming         a weeks         Serious



survivors; MTV Video Music Awards 2018, August 2017, New York Association of Logic's Hip Hop Song 1-800-273-8255 with Lifeline Calls and Suicides in the United States: A Time-Series Analysis

Niederkrotenthaler T, Tran U, Gould M, Sinyor M, Sumner S, Strauss MJ, Voracek M, Till B, Murphy S, Gonzalez F, Spittal MJ, Draper J. BMJ 2021;375:e067726



	Raw associatio	n	Adjusted for 13	RW	Excess calls n (95% CI)	% Increase
Dummy variable	Estimate (SE)	P	Estimate (SE)	p		(95% CI)
Release	191.59 (96.69)	.048	205.84 (94.45)	.029	617.52 (62.15, 1172.89)	5.25 (0.53, 9.97)
MTV Music Awards	373.34 (77.97)	<.001	364.82 (74.76)	<.001	10214.96 (6112.13, 14317.79)	8.46 (5.06, 11.86)
Grammy Awards	263.16 (95.51)	.006	252.88 (95.00)	.008	758.64 (200.04, 1317.24)	6.45 (1.70, 11.22)
Video release	76.29 (92.46)	.41	60.27 (90.51)	.51	301.35 (-585.65, 1188.35)	1.67 (-3.25, 6.60)
News Impact	152.67 (96.33)	.11	158.71 (95.15)	.10	476.13 (-83.35, 1.035,61)	3.57 (-0.62, 7.75)
Logic main events	256.65 (51.81)	<.001	291.62 (49.83)	<.001	9915.08 (6594.41, 13235.75)	6.87 (4.57, 9.18)

Impact Logic main	-6.23 (3.06)	.042	-7.20 (3.13)	.021	(-9.06, 79.62)	(-2.07, 18.22) - <b>5.48</b>
News	11.29 (7.53)	.13	11.76 (7.54)	.12	35.28	8.07
Video release	7.90 (6.17)	.20	7.41 (6.19)	.23	37.05 (-23.61, 97.71)	5.23 (-3.33, 13.80)
Grammy Awards	-10.22 (7.54)	.18	-10.12 (7.54)	.18	-30.36 (-74.70, 13.98)	-7.93 (-19.50, 3.65)
MTV Music Awards	-4.12 (3.72)	.27	-5.37 (3.89)	.16	-150.36 (-363.84, 63.12)	-4.03 (-9.75, 1.69)
Release	-10.62 (7.53)	.16	-11.02 (7.55)	.15	-33.06 (-77.45, 11.33)	-9.29 (-21.76, 3.18)
Dummy variable	Estimate (SE)	p	Estimate (SE)	p		
	Raw associatio	n	Adjusted for 1	3RW	Excess suicides n (95% CI)	% Decrease (95% CI)

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- Till et al. (2023) did a randomized controlled trial with n=334 adults, reading either an article focused on (I) the prevalence of suicide, (II) professional help resources, (III) how everyone can help to prevent suicide, or a (IV) control article.
- Implicit measures to assess mental accessibility of concepts related to suicide and suicide prevention.
  - Word puzzles: task to insert common German words. For example: item "st\_\_\_\_en" can be completed with "s t e r b e n" (English: dying), but also with "s t a u n e n" (English: marveling) or "s t i n k e n" (English: stinking). 10 puzzles overall.
  - <u>Open-ended summaries of text</u>

Till B, Arendt F, Rothauer P, Niederkrotenthaler T. The Role of the Narrative in Educative Suicide Awareness Materials: A Randomized Controlled Trial, Health Communication, 2023. doi.org/10.1080/10410236.2023.2167580

- Participants reading article highlighting the prevalence of suicide tended to show a higher accessibility of concepts related to suicide, as compared to controls.
- Concept of "helping" and that "suicide is preventable" was higher in participants' memory when exposed to materials focusing on help, as compared to controls.
- Prevention messages appear better at triggering thoughts about help-seeking.

Till B, Arendt F, Rothauer P, Niederkrotenthaler T. The Role of the Narrative in Educative Suicide Awareness Materials: A Randomized Controlled Trial, Health Communication, 2023. doi.org/10.1080/10410236.2023.2167580





Arendt et al (2023) developed a web-based campaign promoting good quality suicide reporting, targeting newsrooms in Germany.

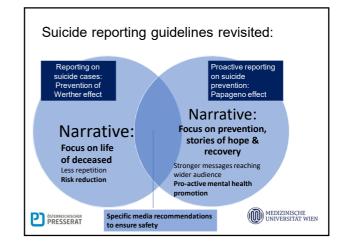
Intervention: Short video message about Werther and Papageno effects and how to minimize risk, developed with feedback from journalists.

Twenty-two newsrooms participated.

Arendt F, Markiewitz A, Scherr S. News for life: improving the quality of journalistic news reporting to prevent suicides, Journal of Communication, 73 (1): 73–85.

## Promoting good-quality reporting

- Content analysis (N = 4,015 articles; from December 2018 to March 2020); comparison of items from participating newsrooms and other newsrooms.
- Interrupted time series analysis to investigate effect on suicide rates in areas served by participating newsrooms vs. other areas.
- Evidence for an **increase in good-quality reporting** in intervention newsrooms.
- Tentative evidence for a **reduction in suicides** in intervention regions.
- Change in narrative was scarce (Papageno stories made up only 3% of stories overall).







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