Supplementary material 2: Evidence base for Schwartz Rounds

Adapted from Taylor C, Xyrichis A, Leamy MC, Reynolds E, Maben J. Can Schwartz Centre Rounds support healthcare staff with emotional challenges at work, and how do they compare with other interventions aimed at providing similar support? A systematic review and scoping reviews. *BMJ Open* 2018;8:e024254. This is an open access article distributed in accordance with the Creative Commons Attribution 4.0 Unported (CC BY 4.0) license, which permits others to copy, redistribute, remix, transform and build upon this work for any purpose, provided the original work is properly cited, a link to the licence is given, and indication of whether changes were made. See: https://creativecommons.org/licenses/by/4.0/

Data extracted from included papers

Authors	Setting	Aims/purpose	Design/methodology	Measures	Main findings	Quality
Manning	Hospitals,	To assess the	Mixed method evaluations	Study-specific (non-	Overall	Quantitative: Moderate
et al	USA	impact of		standardised/validat	Found "dose" effect: more rounds attended, more impact	due to lack of control
$(2008)^2$		Rounds e.g.	- Retrospective survey of	ed, though some	they have.	group (non-attenders) and
Lown et		changes in	256/413 (62%) attenders	adapted from	Self	non-standardised
al		attendees	at 6 experienced Rounds	published measures)	Attendance at Rounds associated with decreased stress	measures.
$(2010)^3$		behaviours and	sites (offering Rounds	Likert scale	and improved ability to cope with psychosocial	
		beliefs about	for 3+years) plus 44	measures to	demands/emotional difficulties at work.	
		patient care,	interviews with	investigate:	Others	Qualitative: Moderate due
		teamwork, stress	providers, Rounds		Rounds attendance led to increased patient interaction	to limited reporting of
		and personal	leaders, facilitators and	1) insights into	and teamwork scores. Interviews highlighted benefits	theoretical underpinnings
		support	hospital administrators.	psychosocial and	including: getting to know colleagues and putting	and strategies to improve
				emotional aspects of	themselves in their shoes, and an improved sense of	rigour (e.g. deviant case
			- Prospective pre-post	clinical care on	connection/shared purpose.	analysis)
			web-based survey of	patient interactions	Organisation	
			222/399 (56%). Rounds	(15 items)	Both samples (51% retrospective; 40% prospective)	
			attenders from 10	2) teamwork (9	reported changes in practices/polices including: culture	
			hospitals newly	items)	change (dialogue that doesn't happened elsewhere);	Low for mixed method
			implementing Rounds	3) support for	focus on patient-centred care; practice changes (e.g.	reporting
			(had held 7 or more	providers (number	increased/earlier palliative care use)	
			Rounds)	of items not	_	
				mentioned)		
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Authors	Setting	Aims/purpose	Design/methodology	Measures	Main findings	Quality
Goodrich	Two	Pilot study to	Mixed methods evaluation	Used same	Overall	Quantitative: Moderate
$(2011)^4$	hospitals,	evaluate	over 2 year period:	questionnaires as	Majority (86% site A, 78% site B) rated rounds as	due to limitations in
Goodrich	UK	introduction of	over 2 year period.	Lown et al. $(2010)^3$	excellent/good.	measures used and lack of
$(2012)^5$	UK	Rounds to UK in	1) Pre-post pilot surveys	Lown et al. (2010)	Self	control group
(2012)		2 hospital sites.	1) The-post phot surveys		- Increases (pre-post) in:	control group
		2 nospital sites.				
			2) Evaluation forms from		 confidence in handling sensitive issues beliefs in the importance of empathy	
			each Round (quality,		- confidence in handling non-clinical aspects of care	Qualitative: Moderate due
			logistics, demographics,		Also reported feeling less stressed and less isolated in	to low reporting of
			plans to attend future		their work.	strategies to improve
			Rounds). Each site held 10		Interview findings: increased compassion, reduced	rigour and theoretical
			Rounds (n=301 attenders		stress	underpinnings
			site A, 74% completed			
			evaluation form; n=949 at			
			site B, 69% completed		Others Increases (pre-post) in:	Low for mixed methods
			evaluation form).		- actual empathy with patients	
					- openness to expressing thoughts, questions and	reporting
					feelings about patient care with colleagues	
			3) Qualitative interviews:		Interview findings: greater respect/empathy for	
			Experience of attenders,		colleagues, better teamwork/collaboration	
			steering group, panellist,		Organization	
			facilitators (n=23). Second		Organisation	
			interview at end with n=13.		Interview findings:	
					Board/senior support importantWider impacts: reduced hierarchy, help build shared	
					values/support strategic vision.	

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Reed et al (2015) ⁶	Hospice, UK	Evaluate the impact of Rounds on staff and the organisation	Longitudinal mixed methods evaluation (1 year): survey and focus groups Exit survey: 398/535 (74%) attendees) 4 interprofessional focus groups (n=33, including attendees, non-attendees and presenters)	5-point Likert scale assessing: Topic relevance, knowledge gained, impact on individual, facilitation and working relationships (<i>Similar questions</i> to Lown & Manning, 2010/Goodrich, 2011).	Overall 78% rated Rounds as excellent or exceptional Self - Focus groups: - Validation of experiences - Honesty, openness and vulnerability allowed others to see person on human level Others 87% gained insight into how others think/feel in caring for patients - Focus groups: - Fostered understanding of importance of non-clinical staff contribution - BUT non-attenders felt responsibility to smooth running of hospice and felt they contributed to wider team without needing to hear stark realities of care/work. Organisation - Focus groups: - More connected, shared purpose	Quantitative: Moderate, key issues included non- validated measures and lack of control Qualitative: Moderate due to lack of elements of rigour in qualitative component (e.g. reflexivity, contradictory/ deviant cases other than non-attenders) Low for mixed method reporting

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Deppoliti	Hospital,	- Learn why people	Qualitative: 4 focus	N/A	Overall	Qualitative: High
et al	USA	attend Rounds - Understand what is	groups (n=27) and 3		Rounds viewed as beneficial.	
(2014) ⁷		gained from the	telephone interviews			
		experience - Identify key elements			Self	
		to use in measuring	Purposive sampling of		- personal impact (on behaviour/attitudes	
		effectiveness	attenders by steering		"think differently")	
			group to represent those		Others	
			that were active		- exposing emotions (increased appreciation,	
			contributors and included		awareness and sensitivity of what others in	
			range of roles/professions		the healthcare team experience)	
			and frequency (low and		- walking in another's shoes (empathic	
			high attenders).		awareness)	
					Organisation	
					 culture change (strong message that staff matter; values/beliefs/ norms evolved positively; not about productivity; improved teamwork due to level playing field). Other findings: 	
					- inequality of topics (some topics more than	
				others lead to increased learning, growth)		
					- influence of rules and boundaries	
					(spoken/unspoken rules about what is	
					acceptable to share)	
					Suggested improvements:	
					 providing list of upcoming topics so staff can plan attendance providing anonymised method to contribute (eg Qs on cards) 	

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George	Hospital, UK	To examine the impact	Mixed methods	The Organisational	Self	Quantitative:
(2016) ⁸		of Schwartz Rounds on		Response to	- Emotional Labour: significantly reduced in staff	
		staff wellbeing and	Interviews with staff	Emotions Scale	where pre-round was their first round.	Moderate because of
		patient care	(nurses and HCAs) about	(ORES)	- Self-reflection increased pre-post	small biased sample, lack
			stress (n=11, 10 were	(investigator-		of control group,
			female, 10 were white	designed): 9 scales	Compared SCR attenders with 10/11 interviewees	measure based on limited
			British)		who also completed ORES (did not attend	staff group input
				Analysis controlled	Rounds). Found non-attenders had higher	(nurses/HCA only).
			Key themes extracted	for whether it was	burnout and emotional labour, and more negative	
			using grounded theory $ ightarrow$	first ever Round,	appraisal of organisation.	
			development of a new	length of time in		Qualitative: Moderate
			measure administered at	role, session		due to limited reporting
			the beginning and end of	attended.	Others	of elements of rigour (e.g.
			2 Rounds (n=55 forms		- More negative appraisal of line manager	audit trail, theoretical
			completed) Mostly			saturation)
			female, white and only 2			
			were over 59yrs old.			
						High for mixed methods
						reporting

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Shield et	Medical	To improve	Quantitative: evaluation	Not specified (but	Overall	Quantitative: Moderate
al (2011) ⁹	school, USA	communication skills,	form (both quant and	appear similar to	93% of faculty and 83% of students rated the	due to lack of clarity
		they designed	qual/content analysis).	Lown & Manning,	sessions as good, excellent or exceptional	regarding
		"Schwartz		2010) ³		sampling/sample and
		Communication	Sampling is unclear (a		Self	measures
		Sessions"	sample of 92, 99 and 94		80% of students and 96% of faculty believe	
		Aimed to provide	are reported) but report		students gained knowledge that will help them	
		medical students with	having evaluation forms		care for patients	
		the rationale and	from 66-95% of students			
		proficiency for effective	for all three sessions (71-		Others	
		communication.	80% for two sessions) and		75% of students and 96% of faculty believe the	
			Faculty members (n=24)		sessions will help students communicate better	
			response rate 42-92%		with patients and family members	

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Gishen et	Medical	Examine the potential	Mixed method evaluation	Feedback form	Overall	Quantitative:
al	school, UK	of Rounds within the		from the Point of	Mean student ratings of a session were 3.5/5 (year	Moderate due to
(2016) ¹⁰		undergraduate curriculum	2 student-focused Rounds were piloted at a medical school (1 Round each for year 5 and 6 students)	Care Foundation; plus free text comments. Questions either Yes/No or	 5) and 3.3/5 (year 6) 81% agreed/strongly agreed the presentation of cases was helpful 80% would attend a future Round 64% agreed Rounds should be integrated into the curriculum 	convenience sampling approach and lack of control group
			Evaluation questionnaire immediately following the Rounds: 258/334 (77%) year 5 students attended the Round and 247 (94%) responded. 180/343 (52%) year 6 students attended the Round and 126 (70%) responded. Focus group (n=7 year 5 students) to explore	5-point Likert rating scale (1= poor to 5 = exceptional)	 Focus group finding: Feelings about the Round (response to round, size of audience- large inhibiting, positive comparison to current reflective practice; post event peer discussions) Self 69% year 5 vs 87% year 6 students were worried about compassion fatigue or burnout 92% agreed/strongly agreed that they appreciated hearing stories demonstrating human side of medicine Focus group finding: Psychological aspects of SCR (psychological pressures of medicine, how session encouraged positive processing of 	Qualitative: Moderate due to limited reporting of measures taken to enhance rigour Low for mixed methods reporting.
			student views on the Round		emotion, sharing personal stories between health professionals).	

Authors	Setting	Aims/purpose	Design/methodology	Measures	Main findings	Quality
Gishen et					Others	
al (2016)					82% agreed/strongly agreed that attending Round	
contd					gave insight into how others feel/think about	
					caring for patients	

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