

Interventions to promote empathy responses in health professionals: a systematic review



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Background:

during Empathy doctorpatient encounters has been identified as an essential element. Physician's empathic understanding of patients' medical or non medical situation is linked with increased patients' satisfaction, trust, less patient's stress, less possibilities for burnout professionals. among However а systematic appraisal of interventions that may promote empathy has not been performed.

Research Question:

Are trainings in improving health professionals' or students' empathy effective?

Data Sources:

We searched Pubmed, Cochrane Database of Clinical Trials, Scopus, and PsycInfo (from inception to November 2012) using terms related to "empathy" and "randomized controlled trials".

Inclusion Criteria:

RCTs written in English that evaluated interventions promoting empathic responses in health professionals were included. Dissertations and papers in a protocol stage were excluded.

Main Outcome:

We considered a change in empathic responses as the main outcome. We categorized studies based on whether empathy was measured by observers, participated staff, or patients.

Results:

Out of 722 items, 17 articles were eligible. Thirteen studies used experiential while 4 non-experiential learning approaches. Duration ranged from 2 days to 24 weeks.

*Observers in 4 studies rated **simulated interviews**. Raters used the motivational interviewing treatment integrity 3.0 in one study, and supported that trained medical students scored better (p<0.001). *Six studies used physician **self-rated questionnaires** without reporting significant changes. Patients (actual or simulating) rated health professionals' empathy in 5 studies. Patients used the Consultation and Relational Empathy Measure in one study, and reported that trained physicians had greater improvement (p=0.04).

In another study, coders used the Staff-Patient Interaction Rating Scale to asses students'improv-

ement, after training in a communication program,

and showed a significant

time by group interaction

				Difference within group		Difference between	
First author, publication year	Outcome	Measure	Participants analyzed (intervention / control)	Difference within group		groups	
				Interventio n Estimate (SD or 95% CI)	Compariso n group Estimate (SD or 95% CI)	Estimate (SD or 95% CI)	P-value
Rater: External Observer in Simulated Interviews							
Daeppen 2011	behavioral coding system	MITI	131 (66/65)	4.0 (0.6) [0.62–0.83]	3.4 (0.7) [0.62–0.83]	No Data	<0.001
Rater: External Observer in Actual Interviews							
Tulsky 2011	Effectiveness of computerized interactive intervention	Number of empathic statements	48 (24 /24)	0.4 [0.3-0.5]	0.2 [0.1-0.3]	RR=1.9 (1.1-3.3)	0.024
Tulsky 2011	Effectiveness of computerized interactive intervention	Continuer response to empathic opportunity	48 (24 /24)	No Data	No Data	OR=2.1 (1.1-4.2)	0.028
Boncivici 2008	Physicians' empathic expression	GRS	155 (79 /76)	Mean: 8.43[7.82- 9.03]	Mean: 11.59[10.99 -12.18]	1.41	< .01
Boncivici 2008	Physicians' empathic expression	ECCS	155 (79 /76)	Mean: 2.66[2.48- 2.84]	Mean: 4.01[3.89- 4.12]	3.86	< .01
Rater: Patients with Questionnaires in Actual or Simulated Interviews							
Riess 2012	Change in empathic and relational skills	CARE	99 (54/ 45)	39.9(5.8)	41.8(4.6)	Dif.=2.2	0.04
Rater: Observer with Questionnaire In Actual or Simulated Interviews							
Shapiro 2009	Effectiveness of an intervention	SPIR	79 (38 /41)	2.29 (6.30)	-0.68 (6.20)	No Data	0.038

Conclusions:

effect (p=0.038)

Few of the trials that evaluated empathy promoting interventi-ons among health care staff showed a signi-ficant improvement. Although in most ca-ses, the studies repor-ted positive changes in empathic understanding after the comple-tion of the intervention.

Table 1: Studies with statistically significant esultaeu acual

interviews. Raters used the Global Rating Scale for empathy and the Communication Empathy Coding System in one study, and supported that trained physicians expressed more empathy (p<0.01). In another study, coders found that trained oncologists empathic used more statements (p=0.024) and were more likely to respond negative emotions to empathically (p=0.028).

Bibliography:

1.Bonvicini, K. A., Perlin, M. J., Bylund, C. L., Carroll, G., Rouse, R. A., Goldstein, M. G. (2009) Impact of communication training on physician expression of empathy. *Patient Education and Counseling*, 75:3-10. **2.** Riess, H., Kelley, J. M., Bailey, R., Dunn, E. J., Phillips, M. (2012) Empathy training for resident physicians: A randomized trial of a neuroscience- informed curriculum. *Journal of General Internal Medicine*, 27(10): 1280-1286