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### **Empathy**

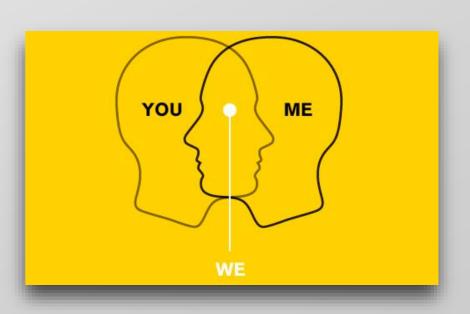


- "Empathy is seeing with the eyes of another, listening with the ears of another and feeling with the heart of another."
- Empathy reflects an innate ability to perceive and be sensitive to the emotional states of others coupled with motivation to care for their wellbeing.

### **Empathy in Medicine**

- Empathy is regarded as being crucial to the development of the therapeutic relationship and has been linked to patient enablement. (Mercer SW et al 2001, Dixon DM et al 1999)
- High levels of empathy have been associated with enhanced diagnostic accuracy and favorable patient outcomes. (Del Canale S et al 2012, Hojat M et al 2011)
- Empathy is considered an essential prerequisite for effective medical care and holistic understanding go the patient's perspective (Walker and Alligood 2001; Reynolds 2000)





#### **Empathy in Medical Education**



• "Medical schools need students who are better able to <u>understand</u> their patients and can, therefore, apply the most appropriate treatment" (*Cowley 2006*)



• Empathy should be an essential objective in undergraduate education (Association of American Medical Colleges)

#### **Empathy in Medical Education**

Studies examining the empathy of medical students show contradictory results.

- Studies conducted in the US showed a significant reduction in empathy during medical education (Chen et al 2012, Neumann et al 2011)
- Other studies do not show same trend towards reduction of empathy during medical education (Paro et al 2014, Costa et al 2013)



- Consequently it is important to examine reliably whether and how empathy changes through the years of medical education.
- Therefore, the overarching aim of the review was to synthesize the existing evidence examining how empathy changes during undergraduate medical education.

Database	Papers Identified
PubMed	899
Web of Science	707
Psyinfo	225
Total	1831

Electronic databases searched and number of results.
(28 November 2018)

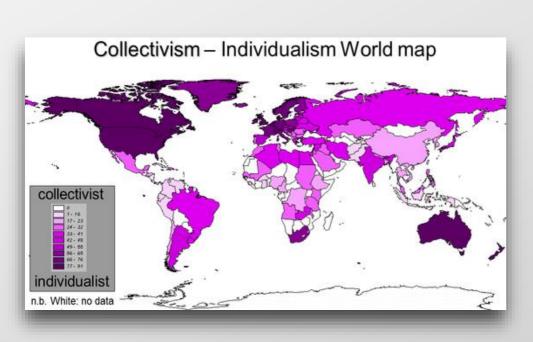
- Number of studies: n=12
- Sample size: n=4906
- Instrument: Jefferson's Scale for Physician Empathy (JSPE) (n=7), The Balanced Emotional Empathy Scale (BEES), the Reading the Mind Eyes test (RME-R test), the Empathy Quotient (EQ) scale and the Interpersonal Reactivity Index (IRI)
- Origin: USA (n=3), Ethiopia, India, Iran, Malaysia, Pakistan, Portugal, Turkey and United Kingdom.
- **Design:** cross-sectional (n=9) and longitudinal (n=3).

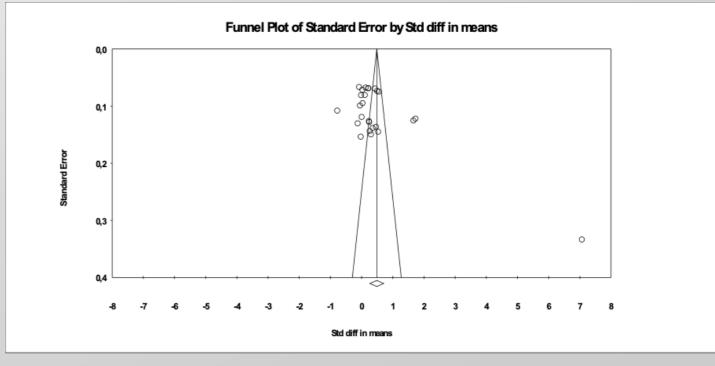
#### **RESULTS:**

- Overall results indicate a small significant effect (g = 0.487, SE = 0.113, 95% CI= 0.265, 0.709).
- In relation to **instruments** used to measure empathy, scales using the Jefferson's Scale for Physician Empathy reported higher effect sizes (g = 0.834, SE = 0.219, 95% CI = 0.406, 1.263), while the effect size of other used scales was smaller and not significant (g = 0.099, SE = 0.052, 95% CI = -0.003, 0.201).
- In terms of **origin**, there was a smaller effect size for studies conducted in the US (g = 0.209, SE = 0.057, 95% CI = 0.097, 0.321) in comparison with those conducted in non-US countries (g = -0.903, SE = 0.326, 95% CI = 0.264, 1.542).

(Medical Teacher, https://doi.org/10.1080/0142159X.2019.1584275)

- 1. Jefferson Scale of Physician Empathy (JSPE)
- 2. Western cultures (mostly the United States) are more individualistic, than cultural products that come from collectivistic eastern cultures (including Korea, Japan, China, and Mexico).





- One needs to be cautious in concluding that empathy decreases during medical education, given the over-reliance on one single measure.
- More **information is needed** before we devote scare resources to training healthcare professionals to be more empathetic, in order to deliver high quality, holistic care. (*Spector 2006*)
- Integrating cultural issues at the undergraduate levels can help doctors-intraining to have a better understanding of cultural issues in clinical settings later on. (Humayun and Herbert 2011)



fet's stop waiting for a BETTER WORLD. fet's start working on it.

Thank you!!