

Measurement of Empathy Among Japanese Medical Students Differences by Gender and Level of Medical Education

Academic Medicine

84, 1192-1197

DOI: [10.1097/acm.0b013e3181b180d4](https://doi.org/10.1097/acm.0b013e3181b180d4)

Citation Report

#	ARTICLE	IF	CITATIONS
1	The Devil is in the Third Year: A Longitudinal Study of Erosion of Empathy in Medical School. Academic Medicine, 2009, 84, 1182-1191.	1.6	1,175
2	Commentary: Identifying Attitudes Towards Empathy: An Essential Feature of Professionalism. Academic Medicine, 2009, 84, 1174-1176.	1.6	40
3	Commentary: The Practice of Empathy. Academic Medicine, 2009, 84, 1177-1179.	1.6	78
4	One Flew Under the Cuckoo's Nest. Academic Medicine, 2009, 84, 1179.	1.6	0
5	Empathy and its correlates in Iranian physicians: A preliminary psychometric study of the Jefferson Scale of Physician Empathy. Medical Teacher, 2010, 32, e417-e421.	1.8	37
6	Empathy in Iranian medical students: A preliminary psychometric analysis and differences by gender and year of medical school. Medical Teacher, 2010, 32, e471-e478.	1.8	101
7	“Being-in-role”: A teaching innovation to enhance empathic communication skills in medical students. Medical Teacher, 2011, 33, e663-e669.	1.8	71
8	Caring for Underserved Patients Through Neighborhood Health Screening: Outcomes of a Longitudinal, Interprofessional, Student-Run Home Visit Program in Singapore. Academic Medicine, 2011, 86, 829-839.	1.6	32
9	Empathy in UK Medical Students: Differences by Gender, Medical Year and Specialty Interest. Education for Primary Care, 2011, 22, 297-303.	0.6	93
10	Empathy in Korean psychiatric residents. Asia-Pacific Psychiatry, 2011, 3, 83-90.	2.2	14
11	Empathy in senior year and first year medical students: a cross-sectional study. BMC Medical Education, 2011, 11, 52.	2.4	149
12	Psychometric properties and confirmatory factor analysis of the Jefferson Scale of Physician Empathy. BMC Medical Education, 2011, 11, 54.	2.4	89
13	Stability of empathy among undergraduate medical students: A longitudinal study at one UK medical school. BMC Medical Education, 2011, 11, 90.	2.4	115
14	Measuring Empathy in Pharmacy Students. American Journal of Pharmaceutical Education, 2011, 75, 109.	2.1	94
15	Medical Students' Self-Reported Empathy and Simulated Patients' Assessments of Student Empathy: An Analysis by Gender and Ethnicity. Academic Medicine, 2011, 86, 984-988.	1.6	76
16	Empathy Levels in First- and Third-Year Students in Health and Non-Health Disciplines. American Journal of Pharmaceutical Education, 2012, 76, 24.	2.1	59
17	Turkish Adaptation Of The Student Version Of Jefferson Scale Of Physician Empathy. Marmara Medical Journal, 0, , .	0.1	11
18	The Relationship Between Physician Empathy and Disease Complications. Academic Medicine, 2012, 87, 1243-1249.	1.6	410

#	ARTICLE	IF	CITATIONS
19	Factor Analysis Methods and Validity Evidence. Academic Medicine, 2012, 87, 1060-1069.	1.6	53
20	Does Applicant Personality Influence Multiple Mini-Interview Performance and Medical School Acceptance Offers?. Academic Medicine, 2012, 87, 1250-1259.	1.6	58
22	The effect of a structured empathy course on the students of a medical and a nursing school. International Nursing Review, 2012, 59, 532-538.	3.3	43
23	Comparative cross-sectional study of empathy among first year and final year medical students in Jimma University, Ethiopia: Steady state of the heart and opening of the eyes. BMC Medical Education, 2012, 12, 34.	2.4	48
24	Measurement and correlates of empathy among female Japanese physicians. BMC Medical Education, 2012, 12, 48.	2.4	48
25	Brazilian version of the Jefferson Scale of Empathy: psychometric properties and factor analysis. BMC Medical Education, 2012, 12, 73.	2.4	66
26	Changes of empathy in medical college and medical school students: 1-year follow up study. BMC Medical Education, 2012, 12, 122.	2.4	44
27	An exploration of empathy and correlates among Taiwanese nurses. Japan Journal of Nursing Science, 2012, 9, 169-176.	1.3	22
28	Medical students' understanding of empathy: a phenomenological study. Medical Education, 2012, 46, 306-316.	2.1	95
29	A latent growth model suggests that empathy of medical students does not decline over time. Advances in Health Sciences Education, 2013, 18, 509-522.	3.3	104
30	Empathy in Chinese physicians: Preliminary psychometrics of the Jefferson Scale of Physician Empathy (JSPE). Medical Teacher, 2013, 35, 609-610.	1.8	19
31	Teaching biochemistry using flash cards. Medical Teacher, 2013, 35, 610-610.	1.8	2
32	Psychometric properties of a Chinese version of the Jefferson Scale of Empathy for Health Professionals Students. Journal of Psychiatric and Mental Health Nursing, 2013, 20, 866-873.	2.1	51
33	Level of Empathy among Medical Students in Kuwait University, Kuwait. Medical Principles and Practice, 2013, 22, 385-389.	2.4	58
34	Empathy in Chinese medical students: psychometric characteristics and differences by gender and year of medical education. BMC Medical Education, 2013, 13, 130.	2.4	99
35	Personality assessments and outcomes in medical education and the practice of medicine: AMEE Guide No. 79. Medical Teacher, 2013, 35, e1267-e1301.	1.8	104
36	Empathy in Iranian medical students: Measurement model of the Jefferson Scale of Empathy. Medical Teacher, 2013, 35, e913-e918.	1.8	77
37	Expressing one's feelings and listening to others increases emotional intelligence: a pilot study of Asian medical students. BMC Medical Education, 2013, 13, 82.	2.4	27

#	ARTICLE	IF	CITATIONS
38	Rising to the challenge: cross-cultural adaptation and psychometric evaluation of the adapted German version of the Jefferson Scale of Physician Empathy for Students (JSPE-S). <i>Advances in Health Sciences Education</i> , 2013, 18, 573-587.	3.3	41
39	How well do medical students rate and communicate clinical empathy?. <i>Medical Teacher</i> , 2013, 35, e946-e951.	1.8	39
40	Maintaining empathy in medical school: It is possible. <i>Medical Teacher</i> , 2013, 35, 1002-1008.	1.8	84
41	Empathy as Related to Motivations for Medicine in a Sample of First-Year Medical Students. <i>Psychological Reports</i> , 2013, 112, 73-88.	1.7	15
42	Medical professional values and education: A survey on Italian students of the medical doctor school in medicine and surgery. <i>North American Journal of Medical Sciences</i> , 2013, 5, 134.	1.7	6
43	Emotional and Cognitive Empathy in First-Year Medical Students. , 2013, 2013, 1-6.		20
44	Enhancing and sustaining empathy in medical students. <i>Medical Teacher</i> , 2013, 35, 996-1001.	1.8	106
45	Psychometric properties of the <scp>G</scp>reek version of the <scp>T</scp>oronto <scp>C</scp>omposite <scp>E</scp>mpathy <scp>S</scp>cale in <scp>G</scp>reek dental students. <i>European Journal of Dental Education</i> , 2013, 17, 208-217.	2.0	9
46	Using Personal Qualities Assessment to Measure the Moral Orientation and Personal Qualities of Medical Students in a Non-Western Culture. <i>Evaluation and the Health Professions</i> , 2013, 36, 174-190.	1.9	7
47	Correlates and Changes in Empathy and Attitudes Toward Interprofessional Collaboration in Osteopathic Medical Students. <i>Journal of Osteopathic Medicine</i> , 2013, 113, 898-907.	0.8	45
48	Walking a fine line: is it possible to remain an empathic physician and have a hardened heart?. <i>Frontiers in Human Neuroscience</i> , 2013, 7, 233.	2.0	35
49	Empathy levels among first year Malaysian medical students: an observational study. <i>Advances in Medical Education and Practice</i> , 2014, 5, 149.	1.5	19
50	Empathy levels among health professional students: a cross-sectional study at two universities in Australia. <i>Advances in Medical Education and Practice</i> , 2014, 5, 107.	1.5	67
51	A empatia mÃ©dica e a graduaÃ§Ã£o em medicina. <i>Revista Hospital UniversitÃ¡rio Pedro Ernesto</i> , 2014, 13, .	0.1	3
52	Levels of empathy in undergraduate emergency health, nursing, and midwifery students: a longitudinal study. <i>Advances in Medical Education and Practice</i> , 2014, 5, 299.	1.5	69
53	Art-making in a family medicine clerkship: how does it affect medical student empathy?. <i>BMC Medical Education</i> , 2014, 14, 247.	2.4	43
54	Empathy in Undergraduate Medical Students of Bangladesh: Psychometric Analysis and Differences by Gender, Academic Year, and Specialty Preferences. , 2014, 2014, 1-7.		36
55	Empathy among Medical Students: Is There a Relation with Quality of Life and Burnout?. <i>PLoS ONE</i> , 2014, 9, e94133.	2.5	151

#	ARTICLE	IF	CITATIONS
56	Associations between Medical Student Empathy and Personality: A Multi-Institutional Study. PLoS ONE, 2014, 9, e89254.	2.5	90
57	Assessments of empathy in medical school admissions: what additional evidence is needed?. International Journal of Medical Education, 2014, 5, 7-10.	1.2	47
58	Measurement properties and confirmatory factor analysis of the Jefferson Scale of Empathy in Italian medical students. Perspectives on Medical Education, 2022, 3, 419-430.	3.5	32
59	Standing in patients' shoes "survey on empathy among dental students in India. Journal of Education and Ethics in Dentistry, 2014, 4, 69.	0.1	9
60	Examiner and simulated patient ratings of empathy in medical student final year clinical examination: are they useful?. BMC Medical Education, 2014, 14, 199.	2.4	32
62	Clinical Examiners, Simulated Patients, and Student Self-assessed Empathy in Medical Students During a Psychiatry Objective Structured Clinical Examination. Academic Psychiatry, 2014, 38, 451-457.	0.9	26
63	Cross sectional assessment of empathy among undergraduates from a medical college. Medical Journal Armed Forces India, 2014, 70, 179-185.	0.8	44
64	Development of a Peer Review System Using Patient Records for Outcome Evaluation of Medical Education: Reliability Analysis. Tohoku Journal of Experimental Medicine, 2014, 233, 189-195.	1.2	4
65	Validation of Slovenian version of Jefferson scale of empathy for students. Zdravstveno Varstvo, 2014, 53, 89-100.	0.9	4
66	The Impact of Simulated Medical Consultations on the Empathy Levels of Students at One Medical School. Academic Medicine, 2014, 89, 632-637.	1.6	70
67	Empatía según la escala de Jefferson en estudiantes de Medicina y Enfermería en Venezuela. Investigación En Educación Médica, 2015, 4, 223-228.	0.2	10
68	Standardized Patient Assessment of Medical Student Empathy. Academic Medicine, 2015, 90, 105-111.	1.6	91
69	Assessing Empathic Attitudes in Medical Students: The Re-Validation of the Jefferson Scale of Empathy student Version Report. Zdravstveno Varstvo, 2015, 54, 282-292.	0.9	14
70	Helping medical students to acquire a deeper understanding of truth-telling. Medical Education Online, 2015, 20, 28133.	2.6	16
71	Psychometric properties of the Jefferson Scale of Empathy-Health Professional Student's version: An Italian validation study with nursing students. Australian Journal of Cancer Nursing, 2015, 17, 483-491.	1.6	28
72	Student empathy levels across 12 medical and health professions: an interventional study. Journal of Compassionate Health Care, 2015, 2, .	1.2	30
73	A Methodological Review of the Assessment of Humanism in Medical Students. Academic Medicine, 2015, 90, S14-S23.	1.6	25
74	Effect of a New Longitudinal Interprofessional Geriatric Medicine Educational Track on Knowledge and Attitude of Medical Students: A Controlled Cohort Study. Journal of the American Geriatrics Society, 2015, 63, 558-564.	2.6	11

#	ARTICLE	IF	CITATIONS
75	Empathy in Korean medical students: Findings from a nationwide survey. Medical Teacher, 2015, 37, 943-948.	1.8	52
76	Exploring autistic-like traits relating to empathic attitude and psychological distress in hospital pharmacists. International Journal of Clinical Pharmacy, 2015, 37, 1258-1266.	2.1	7
77	Reconsidering the "decline" of medical student empathy as reported in studies using the Jefferson Scale of Physician Empathy-Student version (JSPE-S). Medical Teacher, 2015, 37, 783-786.	1.8	61
78	Challenging cases of professionalism in Japan: improvement in understanding of professional behaviors among Japanese residents between 2005 and 2013. BMC Medical Education, 2015, 15, 42.	2.4	8
79	Technical Knowledge, Prosocial Knowledge, and Clinical Performance of Indian Medical Students. International Journal of Selection and Assessment, 2015, 23, 59-70.	2.5	4
80	Undergraduate medical students' empathy: current perspectives. Advances in Medical Education and Practice, 2016, Volume 7, 443-455.	1.5	86
81	A Multicenter Study Investigating Empathy and Burnout Characteristics in Medical Residents with Various Specialties. Journal of Korean Medical Science, 2016, 31, 590.	2.5	52
83	Cross-Validation of the Spanish HP-Version of the Jefferson Scale of Empathy Confirmed with Some Cross-Cultural Differences. Frontiers in Psychology, 2016, 7, 1002.	2.1	44
84	Psychometric properties of the Spanish version of the Jefferson Scale of Empathy: making sense of the total score through a second order confirmatory factor analysis. BMC Medical Education, 2016, 16, 242.	2.4	31
85	Empathy in health professional students: A comparative cross-sectional study. Nurse Education Today, 2016, 41, 1-5.	3.3	82
86	Empathy in Health Professions Education and Patient Care. , 2016, , .		169
87	Communication skills in medical students " An exploratory study before and after clerkships. Porto Biomedical Journal, 2016, 1, 173-180.	1.0	23
88	Empathy and Gender: Are Men and Women Complementary or Opposite Sexes?. , 2016, , 169-187.		1
89	Medir la empatía en estudiantes de medicina, las diferencias por género y nivel de educación médica: identificación de una taxonomía de los estudiantes. Investigación En Educación Médica, 2016, 5, 253-260.	0.2	14
90	The Jefferson Scale of Empathy. , 2016, , 83-128.		10
92	A longitudinal study of empathy in pre-clinical and clinical medical students and clinical supervisors. BMC Medical Education, 2016, 16, 270.	2.4	44
93	Empathy among undergraduate medical students: A multi-centre cross-sectional comparison of students beginning and approaching the end of their course. BMC Medical Education, 2016, 16, 92.	2.4	66
94	Developing an integrated framework of problem-based learning and coaching psychology for medical education: a participatory research. BMC Medical Education, 2016, 16, 2.	2.4	14

#	ARTICLE	IF	CITATIONS
95	Empathy levels in undergraduate paramedic students: A three-year longitudinal study. Nurse Education in Practice, 2016, 16, 86-90.	2.6	26
96	Exploring the Facets of Empathy and Pain in Clinical Practice: A Review. Pain Practice, 2017, 17, 1089-1096.	1.9	22
97	Measuring Medical Students's™ Empathy: Exploring the Underlying Constructs of and Associations Between Two Widely Used Self-Report Instruments in Five Countries. Academic Medicine, 2017, 92, 860-867.	1.6	58
98	Why teaching empathy is important for the medical degree. Revista Clínica Española, 2017, 217, 332-335.	0.5	7
99	International study of medical school learning environments and their relationship with student well-being and empathy. Medical Education, 2017, 51, 280-289.	2.1	43
100	¿Por qué es importante la enseñanza de la empatía en el Grado de Medicina?. Revista Clínica Española, 2017, 217, 332-335.	0.6	10
101	The effects of a structured mindfulness program on the development of empathy in healthcare students. NursingPlus Open, 2017, 3, 1-5.	2.0	22
102	A Quantitative Study of Empathy in Pakistani Medical Students: A Multicentered Approach. Journal of Primary Care and Community Health, 2017, 8, 294-299.	2.1	17
103	Clarifying changes in student empathy throughout medical school: a scoping review. Advances in Health Sciences Education, 2017, 22, 1293-1313.	3.3	77
104	Empathy Levels in Medical Students: Do They Really Change Over Time?. 0, , .		6
105	Communication skills training and the conceptual structure of empathy among medical students. Perspectives on Medical Education, 2022, 7, 264-271.	3.5	22
106	Level of empathy among dietitians: A pilot study. Nutrition and Dietetics, 2018, 75, 411-417.	1.8	8
107	Translation, Transcultural Adaptation, and Validation of the Empathy, Spirituality, and Wellness in Medicine Scale to the Brazilian Portuguese Language. Teaching and Learning in Medicine, 2018, 30, 404-414.	2.1	7
108	Associations between emotional intelligence, empathy and personality in Japanese medical students. BMC Medical Education, 2018, 18, 47.	2.4	70
109	Empathy in Chinese eight-year medical program students: differences by school year, educational stage, and future career preference. BMC Medical Education, 2018, 18, 241.	2.4	30
110	Influence of oncology nurses' empathy on lung cancer patients' cellular immunity. Psychology Research and Behavior Management, 2018, Volume 11, 279-287.	2.8	30
111	Cultural empathy in midwifery students: Assessment of an education program. Nurse Education Today, 2018, 70, 103-108.	3.3	6
112	The Jefferson Scale of Empathy: a nationwide study of measurement properties, underlying components, latent variable structure, and national norms in medical students. Advances in Health Sciences Education, 2018, 23, 899-920.	3.3	133

#	ARTICLE	IF	CITATIONS
113	The Influence of Medical Professional Knowledge on Empathy for Pain: Evidence From fNIRS. <i>Frontiers in Psychology</i> , 2018, 9, 1089.	2.1	12
114	Anecdote or Reality: Are People From the South and/or Rural Areas of the USA More Empathetic?. <i>Medical Science Educator</i> , 2019, 29, 277-284.	1.5	0
115	The Positive Association Between Empathy and Self-Esteem in Chinese Medical Students: A Multi-Institutional Study. <i>Frontiers in Psychology</i> , 2019, 10, 1921.	2.1	24
116	The Educational Effects of a Pregnancy Simulation in Medical/Nursing Students and Professionals. <i>BMC Medical Education</i> , 2019, 19, 168.	2.4	3
117	Measuring empathy in a group of South African undergraduate medical students using the student version of the Jefferson Scale of Empathy. <i>African Journal of Primary Health Care and Family Medicine</i> , 2019, 11, e1-e5.	0.8	7
118	Medical students'™ empathy and attitudes towards professionalism: Relationship with personality, specialty preference and medical programme. <i>PLoS ONE</i> , 2019, 14, e0215675.	2.5	23
119	Is empathy change in medical school geo-socioculturally influenced?. <i>Medical Education</i> , 2019, 53, 655-665.	2.1	46
120	Changes in Students'™ Empathy During Their Training. , 2019, , 185-215.		2
121	A night on call or an overnight shift does not reduce residents'™ empathy: a randomized crossover multicenter survey. <i>BMC Medical Education</i> , 2019, 19, 391.	2.4	0
122	Empathy among dental students in a Nigerian institution. <i>European Journal of Dental Education</i> , 2019, 23, 135-142.	2.0	13
123	Can communication skills training improve empathy? A six-year longitudinal study of medical students in Japan. <i>Medical Teacher</i> , 2019, 41, 195-200.	1.8	55
124	A systematic review of psychometric assessment of the Jefferson Scale of Empathy using the COSMIN Risk of Bias checklist. <i>Journal of Evaluation in Clinical Practice</i> , 2020, 26, 1302-1315.	1.8	22
125	A Cross-Sectional Study of Empathy Among Dental Students at King Abdulaziz University. <i>Journal of Dental Education</i> , 2020, 84, 22-26.	1.2	7
126	Working experience is not a predictor of good communication: Results from a controlled trial with simulated patients. <i>European Journal of Dental Education</i> , 2020, 24, 177-185.	2.0	8
128	Medical Students'™ Empathy Level Differences by Medical Year, Gender, and Specialty Interest in Akdeniz University. <i>Journal of Medical Education and Curricular Development</i> , 2020, 7, 238212052094065.	1.5	11
129	Empathy, well-being and stressful experiences in the clinical learning environment. <i>Patient Education and Counseling</i> , 2020, 103, 2320-2327.	2.2	8
130	Empathy amongst dental students: An institutional cross-sectional survey in Poland and Croatia. <i>European Journal of Dental Education</i> , 2020, 24, 687-694.	2.0	6
131	Impact Factors of Empathy in Mainland Chinese Youth. <i>Frontiers in Psychology</i> , 2020, 11, 688.	2.1	11

#	ARTICLE	IF	CITATIONS
132	Comparison of professionalism between emergency medicine resident physicians and faculty physicians: A multicenter cross-sectional study. PLoS ONE, 2020, 15, e0230186.	2.5	4
133	Gender related changes of empathy level among Polish dental students over the course of training. Medicine (United States), 2020, 99, e18470.	1.0	10
134	Forum theater staging of difficult encounters with patients to increase empathy in students: evaluation of efficacy at The University of Angers Medical School. BMC Medical Education, 2020, 20, 58.	2.4	15
135	The relationship between effort–reward imbalance and empathy among clinical nurses: A cross-sectional online survey. Journal of Clinical Nursing, 2020, 29, 3363-3372.	3.0	16
136	Revisiting the trajectory of medical students'™ empathy, and impact of gender, specialty preferences and nationality: a systematic review. BMC Medical Education, 2020, 20, 52.	2.4	53
137	Development in Danish medical students'™ empathy: study protocol of a cross-sectional and longitudinal mixed-methods study. BMC Medical Education, 2020, 20, 54.	2.4	4
138	A multi-institutional and cross-sectional study on empathy in Chinese medical students: differences by student cadre or not, future career preference, and father'™s education status. BMC Medical Education, 2020, 20, 24.	2.4	4
139	Associations of emotional intelligence and gratitude with empathy in medical students. BMC Medical Education, 2020, 20, 116.	2.4	19
140	The Relationship between Cognitively-Based Clinical Empathy and Attitudes toward Death and Dying in Medical Students. Teaching and Learning in Medicine, 2021, 33, 49-57.	2.1	4
141	Empathy in Japanese paramedicine students: A cross-sectional study. Australian Journal of Cancer Nursing, 2021, 23, 176-182.	1.6	2
142	Developing Emotional Intelligence Through a Longitudinal Leadership Curriculum in UME: Combating the Decline in Medical Student Empathy. Medical Science Educator, 2021, 31, 29-35.	1.5	2
143	The relationship between small music ensemble experience and empathy skill: A survey study. Psychology of Music, 2021, 49, 600-614.	1.6	11
144	What impact does postgraduate clinical training have on empathy among Japanese trainee dentists?. BMC Medical Education, 2021, 21, 53.	2.4	2
145	Correlation between Stress and Empathy in Medical Students As Compared To General Population. National Journal of Community Medicine, 2021, , 1.	0.2	0
146	AssociaÃ§Ã£o entre inteligÃªncia emocional e empatia em estudantes de Medicina: estudo transversal unicÃ³ntrico, Brasil, 2019. Revista Brasileira De Educacao Medica, 2021, 45, .	0.2	0
147	Does Medical Students'™ High Expression of Empathy Correlate with Their Choice of Primary Care Residencies?. Southern Medical Journal, 2021, 114, 8-12.	0.7	0
148	Multiple cross-sectional assessments of empathy in medical undergraduate students. Industrial Psychiatry, 2021, 30, 147.	0.8	2
149	Empathy and Perceived Stress among College Students. International Journal of Indian Psychology, 2021, , 220-231.	0.0	2

#	ARTICLE	IF	CITATIONS
150	Medical education and distrust modulate the response of insular-cingulate network and ventral striatum in pain diagnosis. <i>ELife</i> , 2021, 10, .	6.0	7
151	Measuring Empathy among Dental Students and Interns: A Cross-Sectional Study from Dammam, Saudi Arabia. <i>International Journal of Dentistry</i> , 2021, 2021, 1-7.	1.5	9
152	Empathy and the ability to experience one's own emotions modify the expression of blatant and subtle prejudice among young male adults. <i>Journal of Psychiatric Research</i> , 2021, 137, 471-479.	3.1	7
153	Medical students's™ preclinical service-learning experience and its effects on empathy in clinical training. <i>BMC Medical Education</i> , 2021, 21, 301.	2.4	10
154	The effect of Humanitude care methodology on improving empathy: a six-year longitudinal study of medical students in Japan. <i>BMC Medical Education</i> , 2021, 21, 316.	2.4	4
155	Measurement invariance analysis of two empathy scales in a sample of French first year students registered in health formation. <i>Current Psychology</i> , 0, , 1.	2.8	0
156	Measures of Burnout and Empathy in United States Doctor of Pharmacy Students: Time for a Change?. <i>Journal of Pharmacy Practice</i> , 2022, 35, 940-946.	1.0	5
157	The effect of multimodal comprehensive care methodology training on oral health care professionals's™ empathy for patients with dementia. <i>BMC Medical Education</i> , 2021, 21, 315.	2.4	5
158	Heart and Head: Profiles and Predictors of Self-Assessed Cognitive and Affective Empathy in a Sample of Medical and Health Professional Students. <i>Frontiers in Psychology</i> , 2021, 12, 632996.	2.1	6
159	Measurement of empathy among health professionals during Syrian crisis using the Syrian empathy scale. <i>BMC Medical Education</i> , 2021, 21, 409.	2.4	5
161	Development and Cross-National Validation of a French Version of the Jefferson Scale of Empathy for Students. <i>Evaluation and the Health Professions</i> , 2022, 45, 288-296.	1.9	3
162	The direct and indirect effects of clinical empathy on well-being among pre-medical students: a structural equation model approach. <i>BMC Medical Education</i> , 2021, 21, 412.	2.4	8
163	Association between dispositional empathy and self-other distinction in Irish and Belgian medical students: a cross-sectional analysis. <i>BMJ Open</i> , 2021, 11, e048597.	1.9	1
164	Cultural adaptation and psychometric properties of the Jefferson empathy scale health professions students's™ version in SpanishOccupational therapy students. <i>BMC Medical Education</i> , 2021, 21, 472.	2.4	3
165	The dark side of leader's™ member exchange: Observers' reactions when leaders target their teammates for abuse. <i>Human Resource Management</i> , 2022, 61, 199-213.	5.8	7
166	Comparison of self-reported empathy levels among dental undergraduate students in Northern India: A questionnaire-based cross-sectional study. <i>Contemporary Clinical Dentistry</i> , 2021, 12, 255.	0.7	3
167	Spirituality of medical students: associations with empathy and attitudes in the doctor-patient relationship. <i>Revista Brasileira De Educacao Medica</i> , 2021, 45, .	0.2	1
168	Association between emotional intelligence and empathy among medical students: a single center cross-sectional study, Brazil, 2019. <i>Revista Brasileira De Educacao Medica</i> , 2021, 45, .	0.2	3

#	ARTICLE	IF	CITATIONS
169	Medical Studentsâ€™ Perspectives on Empathy: A Systematic Review and Metasynthesis. Academic Medicine, 2021, 96, 142-154.	1.6	32
172	Maintenance of empathy levels among first and final year medical students: a cross sectional study. F1000Research, 2013, 2, 157.	1.6	14
173	Empathy assessment in healthcare students is highly heterogeneous: A systematic review and meta-analysis (2012-2016). World Journal of Meta-analysis, 2019, 7, 1-17.	0.1	4
174	Associations between empathy and big five personality traits among Chinese undergraduate medical students. PLoS ONE, 2017, 12, e0171665.	2.5	75
175	Medical student, nursing student, and non-health care respondents' implicit attitudes toward doctors and patients: Development and a pilot study of a new implicit attitudes test (IAT). PLoS ONE, 2017, 12, e0183352.	2.5	2
176	Empathic Communication and Essential Instruction for Medical Students. Journal of Biology and Today's World, 2017, 6, .	0.1	1
177	Empatia e reconhecimento de expressões faciais de emoções básicas e complexas em estudantes de Medicina. Jornal Brasileiro De Psiquiatria, 2016, 65, 209-214.	0.7	7
178	Análise dos Níveis de Empatia de Estudantes de Medicina. Revista Brasileira De Educacao Medica, 2018, 42, 152-160.	0.2	6
179	Factors associated with levels of empathy among students and professionals in the health field: a systematic review. Trends in Psychiatry and Psychotherapy, 2020, 42, 207-215.	0.8	18
180	Validity and Reliability of the Jefferson Scale of Empathy, Nursing Student Version R in a Sample of Iranian Oncology Nurses. Nursing and Midwifery Studies, 2016, In press, .	0.4	1
181	Is empathy an important attribute of midwives and other health professionals?: A review. European Journal of Midwifery, 2019, 3, 4.	1.1	13
182	Turkish Version of the Jefferson Scale of Empathy Psychometric Properties. European Scientific Journal, 2017, 13, 101.	0.1	5
183	Empathy Score among Student Residence Assistants in Iran. Electronic Physician, 2016, 8, 3357-3362.	0.2	4
184	Empathy score among medical students in Mashhad, Iran: study of the Jefferson Scale of Physician Empathy. Electronic Physician, 2018, 10, 7101-7106.	0.2	8
185	Relationship between Psychological Correlates and Empathy in Medical Students: A Cross-Sectional Study. Psychiatry Investigation, 2019, 16, 766-772.	1.6	6
186	Physician empathy: definition, outcome-relevance and its measurement in patient care and medical education. GMS Zeitschrift für Medizinische Ausbildung, 2012, 29, Doc11.	1.2	67
187	Clinical empathy in medical students in India measured using the Jefferson Scale of Empathyâ€“Student Version. Journal of Educational Evaluation for Health Professions, 2017, 14, 33.	12.6	36
188	Complex and novel determinants of empathy change in medical students. Korean Journal of Medical Education, 2016, 28, 67-78.	1.3	41

#	ARTICLE	IF	CITATIONS
189	The relationship between empathy and stress: a cross-sectional study among undergraduate medical students. Korean Journal of Medical Education, 2019, 31, 215-226.	1.3	17
190	Differences and changes in the empathy of Korean medical students according to gender and vocational aptitude, before and after clerkship. Korean Journal of Medical Education, 2019, 31, 343-355.	1.3	7
191	Medical students' and residents' conceptual structure of empathy: A qualitative study. Education for Health: Change in Learning and Practice, 2013, 26, 4.	0.3	32
192	Exploring the missing link - Empathy among dental students: An institutional cross-sectional survey. Dental Research Journal, 2016, 13, 419.	0.6	22
193	Empathy in medical education: Can 'kindness' be taught, learned and assessed?. Advances in Human Biology, 2020, 10, 38.	0.2	7
194	Empathy Levels of Dentistry Students in Peru and Argentina. Health, 2015, 07, 1268-1274.	0.3	8
195	Empathy Levels of Dental Students of Central America and the Caribbean. Health, 2015, 07, 1678-1686.	0.3	6
196	Levels of Empathy among Dental Students in Five Chilean Universities. Health, 2016, 08, 32-41.	0.3	6
197	An assessment of dental students' empathy levels in Malaysia. International Journal of Medical Education, 0, 4, 223-229.	1.2	33
198	Exploration and confirmation of the latent variable structure of the Jefferson scale of empathy. International Journal of Medical Education, 2014, 5, 73-81.	1.2	73
199	Empathy differences by gender and specialty preference in medical students: a study in Brazil. International Journal of Medical Education, 2016, 7, 153-157.	1.2	72
200	Nurturing virtues of the medical profession: does it enhance medical students' empathy?. International Journal of Medical Education, 2017, 8, 262-267.	1.2	25
201	Factors related to burnout in resident physicians in Japan. International Journal of Medical Education, 2019, 10, 129-135.	1.2	28
202	Empatía en estudiantes de enfermería de la Universidad Mayor, Sede Temuco, IX región, Chile. Aquichan, 2014, 14, 388-402.	0.3	11
203	Validity and Reliability of the Turkish Version of Jefferson Scale of Empathy for Nursing Students. Türkiye Klinikleri Journal of Medical Sciences, 2014, 34, 111-119.	0.1	8
204	Empathy In Chinese Pharmacy Undergraduates: Implication for Integrating Humanities Into Professional Pharmacy Education. Indian Journal of Pharmaceutical Education and Research, 2015, 49, 31-39.	0.6	4
205	Tomorrow's doctors and dentists in Malaysia: empathic or indifferent?. European Journal for Person Centered Healthcare, 2017, 5, 205.	0.3	1
206	Changes in the Level of Nursing Students' Empathy During Four Years Education. Journal of Medical Education, 2020, 19, .	0.3	5

#	ARTICLE	IF	CITATIONS
207	Validity and Reliability of the Jefferson Scale of Empathy, Nursing Student Version R in a Sample of Iranian Oncology Nurses. <i>Nursing and Midwifery Studies</i> , 2016, 6, .	0.4	3
208	Empathy predicting career choice in future physicians. <i>Engrami</i> , 2015, 37, 37-48.	0.1	10
209	Empathy, Self-Reflection, and Curriculum Choice. <i>Interdisciplinary Journal of Problem-based Learning</i> , 2014, 8, .	0.5	6
210	Measurement of Patient's Perception Levels With Reference to Physician's Empathy: Private Hospitals Scenario. <i>Cureus</i> , 2021, 13, e18684.	0.5	0
211	Current state and challenges of Japanese medical education. <i>Okayama Igakkai Zasshi</i> , 2012, 124, 41-45.	0.0	0
212	Who Selects Obstetrics and Gynecology as a Career and Why, and What Traits Do They Possess?. , 0, , .		0
213	Understanding the Gender Role Identity in Male Nursing Students. <i>Journal of Korean Academic Society of Nursing Education</i> , 2014, 20, 223-233.	0.8	8
214	EmpatĀa en estudiantes de kinesiologĀa. Universidad Mayor, sede Temuco, Chile. <i>Revista Ciencias De La Salud</i> , 2015, 13, 383-393.	0.2	3
215	Measuring Empathy Levels among Kurdish Medical Students in Erbil City, Iraq: Cross-sectional study. <i>Sultan Qaboos University Medical Journal</i> , 2016, 16, e62-67.	1.0	7
216	Study on Empathy among Undergraduate Students of the Medical Profession in Nepal. <i>Journal of Biosciences and Medicines</i> , 2017, 05, 51-63.	0.2	2
217	Analyzing opinion dynamics in online social networks. <i>Big Data & Information Analytics</i> , 2017, 1, 279-298.	1.3	0
218	Empatia e afetos em estudantes do ensino superior na Āĳrea da saĀde. <i>Revista De Estudos E InvestigaciĀn En PsicologĀa Y EducaciĀn</i> , 0, , 127-131.	0.4	0
219	Authors' reply: Comment on: Empathy and burnout: a study on residents from a Singapore institution. <i>Singapore Medical Journal</i> , 2018, 59, 168-168.	0.6	2
221	Empathy in Frontline Employees: The Link between Unemployed and Manpower Employment Organization under Economic Recession. <i>International Journal of Business and Applied Social Science</i> , 2019, 10, .	0.2	0
222	Uzun Vaka Olarak Sinema Filmlerinin KullanĀmĀna Bir Ārneĳ: The Doctor. TĀp EĀĳitimi DĀnyasĀ, 0, , .	0.3	2
223	AssociaĀo entre Empatia e Personalidade em Estudantes de Medicina. <i>Revista Brasileira De Educacao Medica</i> , 2020, 44, .	0.2	0
225	Predictors of Physician's Empathy: The Role of Spiritual Well-being, Dispositional Perspectives, and Psychological Well-being. <i>Oman Medical Journal</i> , 2020, 35, e138-e138.	1.0	6
226	Analysis of Medical School Term 1-2-3 Students' Communication and Empathy Skills. TĀp EĀĳitimi DĀnyasĀ, 0, , .	0.3	2

#	ARTICLE	IF	CITATIONS
227	Association of Autism Spectrum Disorder and Attention Deficit Hyperactivity Disorder Traits with Depression and Empathy Among Medical Students. <i>Advances in Medical Education and Practice</i> , 2021, Volume 12, 1259-1265.	1.5	6
228	A Empatia em Acadêmicos de Medicina em Relação ao Paciente Pediátrico: Estudo Transversal Unicêntrico, 2019. <i>Revista Brasileira De Educacao Medica</i> , 2020, 44, .	0.2	1
229	Cultura, ensino e aprendizagem da empatia na educação médica: scoping review. <i>Interface: Communication, Health, Education</i> , 0, 24, .	0.5	1
230	Should family physicians be empathetic?: NO. <i>Canadian Family Physician</i> , 2010, 56, 741-3, 745-7; discussion e286, e288.	0.4	3
231	Empathy without borders? Cross-cultural heart and mind-reading in first-year medical students. <i>Ethiopian Journal of Health Sciences</i> , 2013, 23, 113-22.	0.4	10
232	Comparison of empathy score among medical students in both basic and clinical levels. <i>Journal of Advances in Medical Education and Professionalism</i> , 2014, 2, 88-91.	0.2	26
233	From Hippocrates to the Francis Report--Reflections on empathy. <i>Ulster Medical Journal</i> , 2015, 84, 8-12.	0.2	2
235	Empathy in Iranian medical students: A comparison by age, gender, academic performance and specialty preferences. <i>Medical Journal of the Islamic Republic of Iran</i> , 2016, 30, 439.	0.9	7
236	Emotional Intelligence and its Effect on Pharmacists and Pharmacy Students with Autistic-like Traits. <i>American Journal of Pharmaceutical Education</i> , 2017, 81, 74.	2.1	5
237	Relationship between empathy and motivation in undergraduate medical students. <i>GMS Journal for Medical Education</i> , 2020, 37, Doc43.	0.1	2
238	Empatia e reconhecimento de expressões faciais de emoções básicas e complexas, em estudantes de Medicina da Universidade Estadual de Mato Grosso do Sul. <i>Research, Society and Development</i> , 2020, 9, e643997835.	0.1	0
241	Relationship Between Secure and Insecure Attachment Style with Physician Empathy Among Medical Students: A Cross-Sectional Study in Iran. <i>Iranian Journal of Psychiatry and Behavioral Sciences</i> , 2022, In Press, .	0.4	0
242	Development of student empathy during medical education: changes and the influence of context and training. <i>Korean Journal of Medical Education</i> , 2022, 34, 17-26.	1.3	4
246	Anti-stigma training and positive changes in mental illness stigma outcomes in medical students in ten countries: a mediation analysis on pathways via empathy development and anxiety reduction. <i>Social Psychiatry and Psychiatric Epidemiology</i> , 2022, 57, 1861-1873.	3.1	10
248	Reliability of Greek version of the Toronto empathy questionnaire in medical students and associations with sociodemographic and lifestyle factors. <i>BMC Psychology</i> , 2022, 10, 113.	2.1	3
249	Training in communication and emotion handling skills for students attending medical school: Relationship with empathy, emotional intelligence, and attachment style. <i>Patient Education and Counseling</i> , 2022, 105, 2871-2879.	2.2	3
250	Compassion and extracurricular activities of Portuguese Health Sciences students in Portugal. <i>BMC Medical Education</i> , 2022, 22, .	2.4	0
251	Psychometric properties of a French version of the Jefferson Scale of Empathy. <i>International Journal of Medical Education</i> , 0, 13, 205-214.	1.2	1

#	ARTICLE	IF	CITATIONS
252	Predictors of Medical Students' Compassion and Related Constructs: A Systematic Review. Teaching and Learning in Medicine, 2023, 35, 502-513.	2.1	4
254	Empathy among Saudi Residents at a Tertiary Academic Center during the COVID-19 Pandemic and Its Association with Perceived Stress. Medicina (Lithuania), 2022, 58, 1258.	2.0	1
255	Effects of Yoga and Mindfulness Programs on Self-Compassion in Medical Professionals during the COVID-19 Pandemic: An Intervention Study. International Journal of Environmental Research and Public Health, 2022, 19, 12523.	2.6	6
256	Humanitarian approach in medicine: A study on clinical empathy among medical students and graduates using the Jefferson Scale of Empathy. The National Medical Journal of India, 0, 35, 100-104.	0.3	2
257	Association Between Physician Empathy and Difficult Patient Encounters: a Cross-Sectional Study. Journal of General Internal Medicine, 2023, 38, 1843-1847.	2.6	4
258	The Pedagogical Value of a Student-run Community-based Experiential Learning Project: The Yong Loo Lin School of Medicine Public Health Screening. Annals of the Academy of Medicine, Singapore, 2010, 39, 686-691.	0.4	17
259	Using patient storytelling to improve medical students' empathy in Japan: a pre-post study. BMC Medical Education, 2023, 23, .	2.4	4
260	Effects of video-recorded role-play and guided reflection on nursing student empathy, caring behavior and competence: A two-group pretest-posttest study. Nurse Education in Practice, 2023, 67, 103560.	2.6	3
261	Eleven years of data on the Jefferson Scale of Empathy – medical student version: Japanese norm data and tentative cutoff scores. BMC Medical Education, 2023, 23, .	2.4	2
262	Physician empathy in Korean clinical contexts: developing a conceptual framework and exploring influencing factors. Korean Journal of Medical Education, 2023, 35, 9-20.	1.3	0
263	Effect of multimodal comprehensive communication skills training with video analysis by artificial intelligence for physicians on acute geriatric care: a mixed-methods study. BMJ Open, 2023, 13, e065477.	1.9	1
264	Empathy level towards patients among Thai dental students: a cross-sectional study. BMC Oral Health, 2023, 23, .	2.3	1
265	Improved Understanding of Learning Characteristics among International Students in Post-Baccalaureate Medical Education for Sustainable Development. Sustainability, 2023, 15, 7631.	3.2	0
266	Factor structure of the Jefferson Scale for Empathy among medical undergraduates from South India. Indian Journal of Psychiatry, 2023, 65, 755-759.	0.7	0
267	Enhancing patient-centred care in Taiwan's dental education system: Exploring the feasibility of doctor-patient communication education and training. Journal of Dental Sciences, 2023, , .	2.5	0
268	Healthcare experience affects pain-specific responses to others' suffering in the anterior insula. Human Brain Mapping, 2023, 44, 5655-5671.	3.6	0
269	Measuring empathic behaviour among undergraduate dietetics students. Journal of Evaluation in Clinical Practice, 0, , .	1.8	0
270	Empathy competence and future specialty among medical residents in Japan: a nationwide cross-sectional study. Scientific Reports, 2023, 13, .	3.3	0

#	ARTICLE	IF	CITATIONS
271	Learning Language, Un/Learning Empathy in Medical School. Culture, Medicine and Psychiatry, 0, , .	1.2	0
272	Association between tolerance for ambiguity specific to the clinical context and empathy in medical trainees: A multicenter cross-sectional study in Japan. Medical Teacher, 0, , 1-7.	1.8	0
273	Differences in empathy levels among physicians based on specialty: a nationwide cross-sectional study. Postgraduate Medical Journal, 0, , .	1.8	0
274	Longitudinal Assessment of Empathy and Burnout Across a Single Pharmacy Class Cohort. American Journal of Pharmaceutical Education, 2023, , 100604.	2.1	0
275	The integrated curriculum and student empathy: a longitudinal multi-cohort analysis. Advances in Health Sciences Education, 0, , .	3.3	0
276	The Level of Empathy Among Medical Students at the University of Tabuk, Saudi Arabia. Cureus, 2024, , .	0.5	0
277	Empathy Among Physicians and Nurses in Japan: A Nationwide Cross-sectional Study. Journal of General Internal Medicine, 2024, 39, 960-968.	2.6	0
278	Empathy Levels Among Healthcare Professionals: An Asian Multi-professional Cross-Sectional Study. Cureus, 2024, , .	0.5	0
279	The Greek Jefferson Scale of Empathyâ€”Medical Student Version (JSE-S): Psychometric Properties and Its Associated Factors. Behavioral Sciences (Basel, Switzerland), 2024, 14, 195.	2.1	0
280	The Reliability, Validity and Cross-Cultural Adaptation of Turkish Version of Jefferson Scale of Empathy for Health Professions Students. Clinical and Experimental Health Sciences, 2024, 14, 14-21.	0.5	0