Empathy, Burnout, and Emotional Intelligence in Incoming USF Pharmacy and Medical Students

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Empathy, Burnout, and Emotional Intelligence in Incoming USF Pharmacy and Medical Students

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Background

Research studies currently demonstrate decreased empathy, emotional intelligence (EI), and high levels of burnout among professionals within the healthcare workforce. Studies have additionally shown that levels of empathy tend to decline throughout the years of medical training. Previous studies have primarily focused on medical student levels of burnout, empathy, and EI, yet few have looked at the same in pharmacy students throughout their training. This study will analyze levels of empathy, burnout, and EI in the incoming Pharmacy students of the University of South Florida (USF), and will compare them to the incoming medical students of both the Core and SELECT courses.

Problem Statement

Using the Jefferson Scale of Empathy (JSE), Maslach Burnout Inventory (MBI), and Emotional Intelligence and Social Competency Inventory (ESCI), what are the current states of empathy, burnout, and EI of incoming medical and pharmacy students at USF?

Methods

The JSE, MBI, and ESCI are tools widely used to measure empathy, burnout, and EI, respectively. The Jefferson Scale of Physician Empathy, medical student version (JSPE-MS) is a 20-question survey used to measure empathy, scored on a scale from 20-140. Higher scores on the JSE connote higher levels of empathy. The Maslach Burnout Inventory Student Survey (MBI-SS) is a 16-question survey, designed to measure burnout in students through analysis of three separate domains. The ESCI is a 72-question survey tool that assesses and measures emotional and social behaviors of its respondents through analysis of 12 competencies. An additional 11 demographic questions were added to the survey and were assessed to determine any potential correlation between empathy, burnout, and/or EI. Surveys were disseminated to all incoming USF medical and pharmacy students (N=274) using an anonymous, de-identified email link to a secure survey platform. Students were assigned two or more of the surveys to complete. Using Excel, correlational analyses and analysis of variance were used to examine relationships and group differences between the pharmacy, and Core and SELECT medical classes.

Results

287 responses were gathered (N=274) with a 97% completion rate. Demographic questions looked at gender, age, marital status, parental status, and specialty of interest. The mean levels of empathy on the JSE for Pharmacy was 112 (SD=12); Core 118 (SD=11); SELECT 116 (SD=11). Analysis of variance on empathy scores yielded an F = 7.50 and p = 0.0007. Post-hoc analysis determined a statistically significant difference in empathy between the Core and Pharmacy students. Analysis of MBI results showed high levels of Professional Efficacy and Cynicism in all classes. Twelve ESCI competencies were analyzed among pharmacy and Core classes, with significant findings in 3 categories.

Discussion

• Empathy levels for USF pharmacy students are higher, at 112, than have been shown in other studies, at 110, yet are significantly lower than those of the medical students
• The Core and SELECT medical students’ average levels of empathy match those of first year students in other similar studies (range: 115-123)
• With respect to gender, similar patterns seen for pharmacists and medical students and practicing physicians levels of empathy
• High levels of PE at the beginning of their graduate medical education
• About 1/3 of each of the classes meet two of the three domain classifications for burnout
• Further research could be done to explore whether high PE serves as a protective factor against burnout for students during graduate healthcare education
• Curriculum changes at other schools includes: Patient experience simulation, Promotion of volunteerism
• Attenuation in self-serving behavior and medical authoritarianism

Conclusions

• Empathy, burnout, and EI states of USF pharmacy and medical students match those of students at other institutions.
• Studies show incoming students have the highest levels of empathy and lowest levels of burnout, though they tend to decline throughout years of schooling.
• This research will serve as a baseline for studying the progression of empathy, burnout, and EI for this class of medical and pharmacy students at USF throughout their years of training.
• Hopefully, results from this study provide administrative faculty from the USF College of Pharmacy and MCOM with data that will encourage change for promotion of wellness within the curriculum.

References