

**“Analysis of professionalism cultivation in medical school training: the influence of empathy, medical humanities curriculum, and service learning on professionalism”**

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This study proposes to investigate the effects and interactions of various current medical education trainings, including medical humanities courses, service learning and the role of empathy in the process. As a multi-stage approach, we will assess medical students of six different groups and stages and at two time points with one-year apart in order to exam the kinds and lengths of the exposures of our interest. The selected measuring instruments will be assessed of their validity and reliability. Both quantitative and qualitative analyses will be conducted.