

## The Influence of Creativity on Human Anatomy Learning Process. A Cross-Sectional Study on 2nd year Medical Students

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### ABSTRACT

Medical literature seems encourage the use of drawing as an educational tool in human anatomy. However, incorporating drawing as human anatomy educational tool seems to be overlooked in medical schools' curricula. In a previous study conducted by the authors found that drawings are a useful tool in understanding general anatomy from dental students' perspective. Drawing papers were collected and immediately evaluated. Evaluation process was based on three indices; Similarity Index, Creativity Index, and Information Index. All these indices were given 3 scores based on the way student depicts the original figure. These criteria were agreed upon by the first and second authors. Seventy-two 2<sup>nd</sup> year medical students were included in this study. Forty-two students were females (59.2%), whereas 29 (40.8%) were males. The close pattern between similarity and creativeness indexes has been statistically confirmed. Kendall's tau<sub>b</sub> Test showed a highly positive relationship between similarity and creativity indexes ( $P=0.000$ ). Similarly, the relationship between creativity and information indexes was found to be highly significant relationship ( $P=0.000$ ). in terms of gender, Chi-Square Test showed no significant relationship between gender in creativity score ( $P=0.157$ ). Creative minds are better equipped to understand human body. They might have better ability to comprehend medical knowledge. This might be related to their learning ability, which might overcome educational challenges.

**Keywords:** Medical literature, human anatomy, Similarity Index, Creativity Index, Information Index

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