

Cognitive effort and frontal theta: real world applications in medical education.

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The development of new portable EEG devices that are unobtrusive provide a unique opportunity for implementation as biofeedback tools in medical education. By measuring frontal theta as a determinant of cognitive effort and providing real-time feedback, students can be reminded to utilize effortful thinking. The intention is to improve the accuracy of student's decisions early, before they develop ineffective diagnostic schemas.

Since the study is still in its early phases, this presentation will focus primarily on background information, the design of the study itself, and preliminary analysis of data gathered to date.