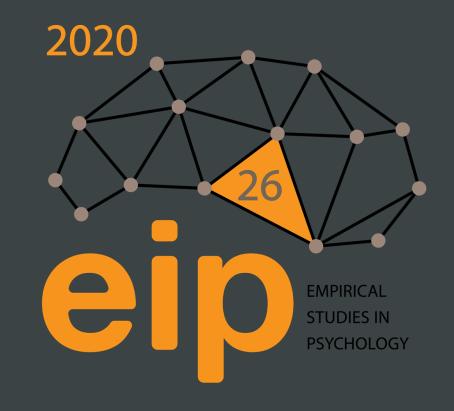
Effects of violent video stimuli on gastric activity: Electrogastrography-based case study

N.B. Popović¹, N. Miljković¹,

G. Knežević², Lj. B. Lazarević³

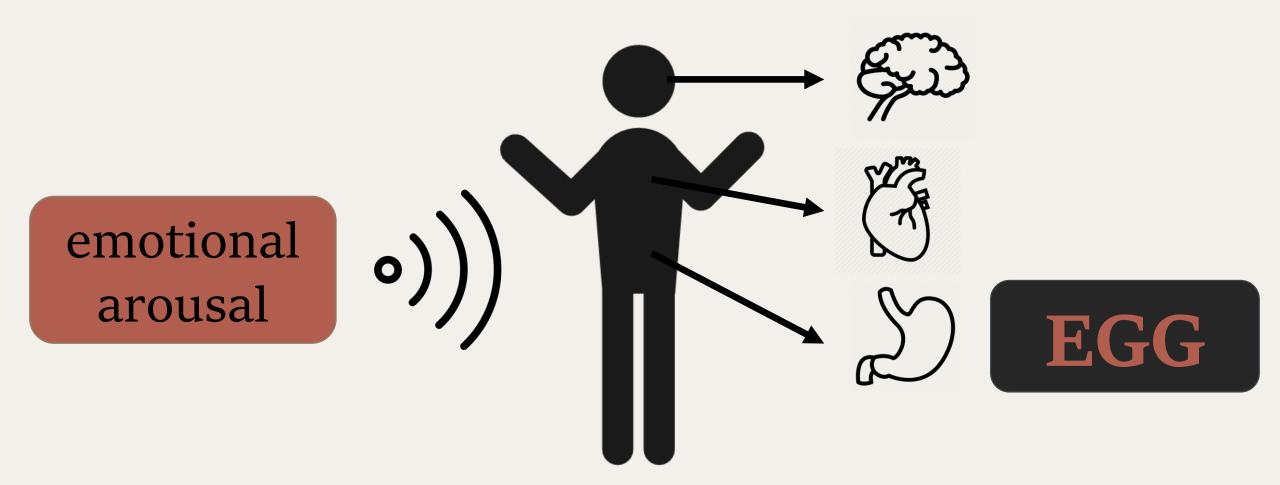


¹University of Belgrade - School of Electrical Enigineering

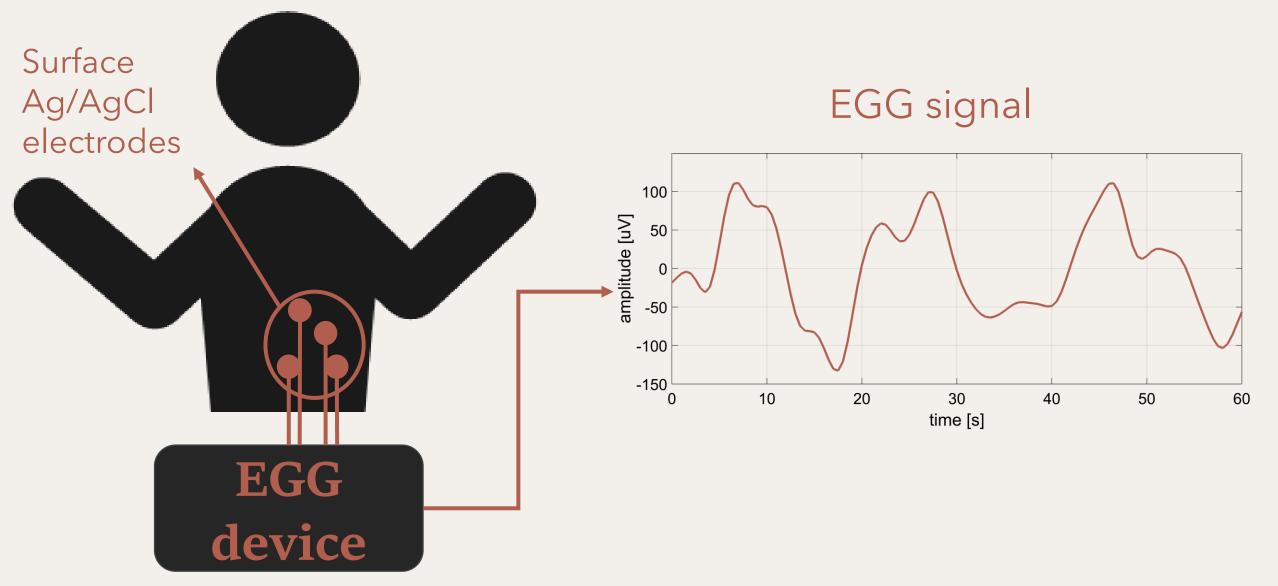
² Department of Psychology and Laboratory for research of individual differences, Faculty of Philosophy, University of Belgrade

³Institute of Psychology and Laboratory for research of individual differences, Faculty of Philosophy, University of Belgrade

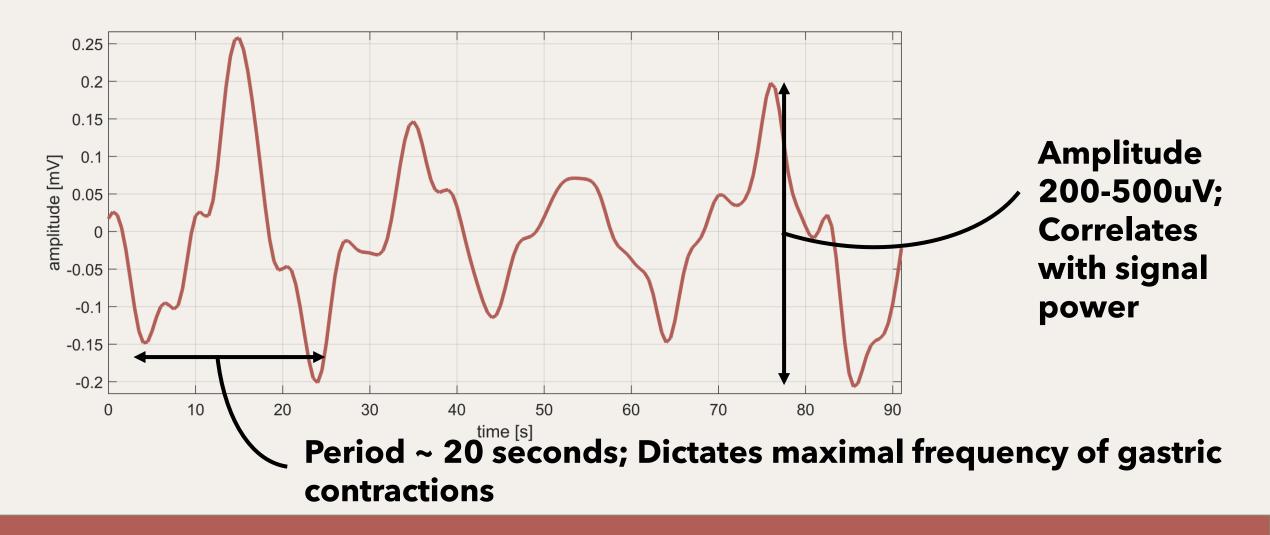
Introduction



What is Electrogastrography?

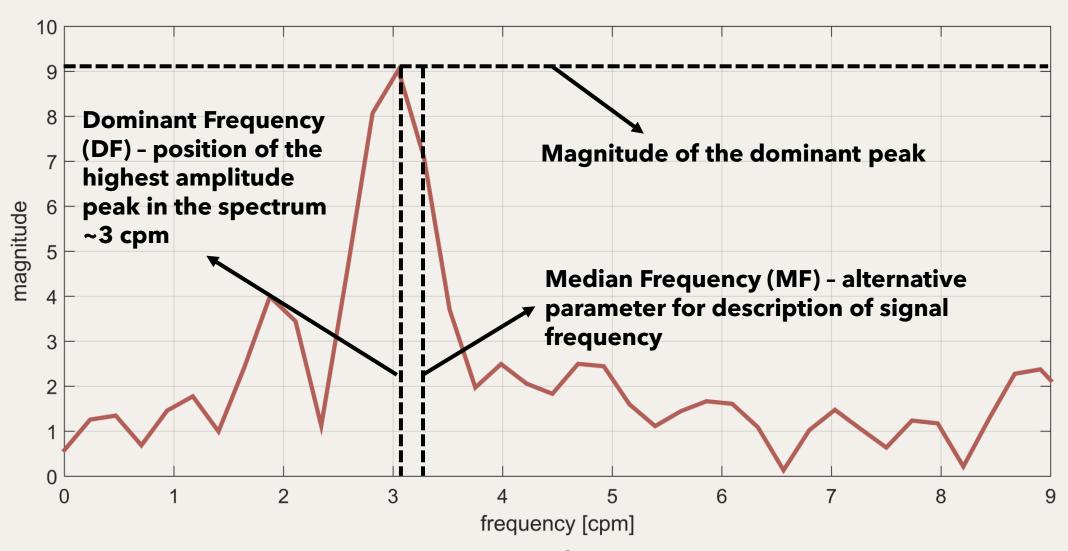


Interpretation of EGG signal from timeseries



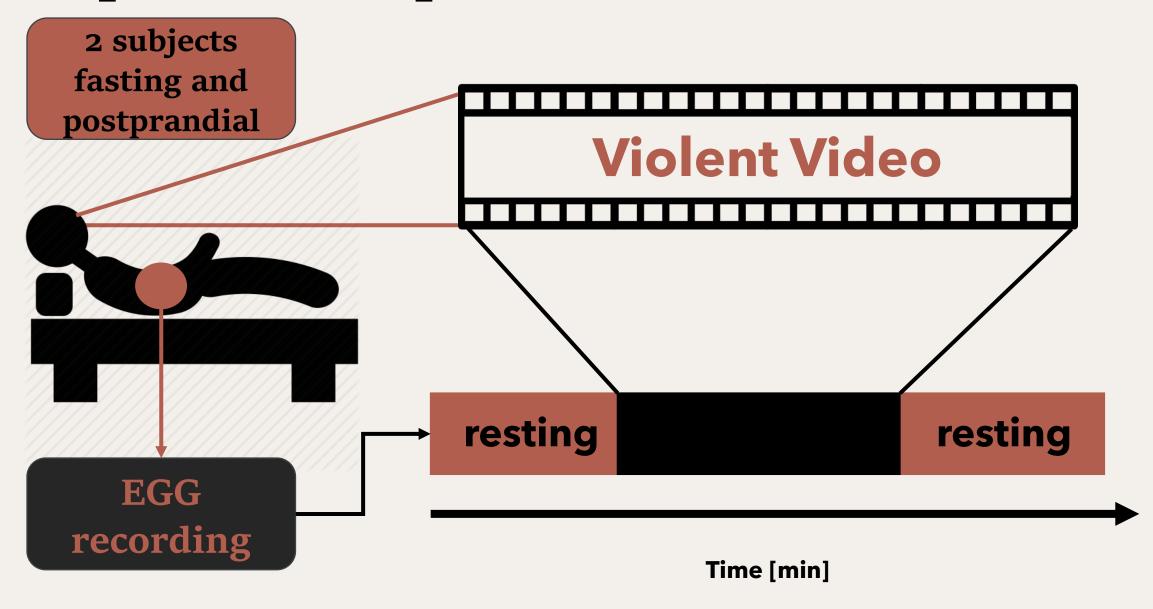
More parameters can be calculated from frequency spectrum

Interpretation of EGG signal from spectrum

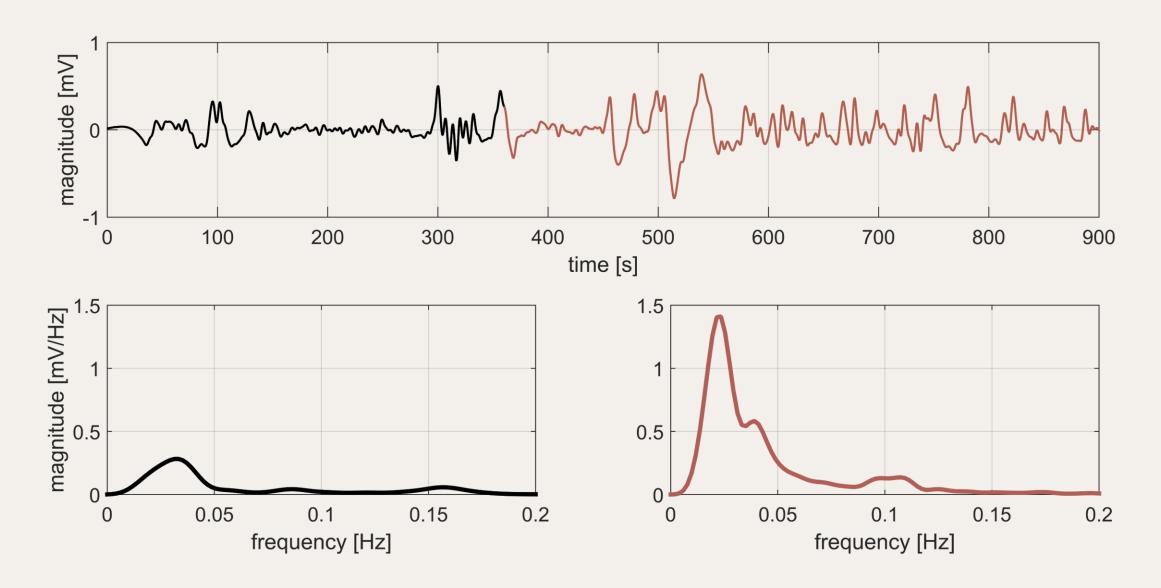


Crest Factor (CF) - Ratio between the magnitude of the dominant peak and spectrum RMS value; Correlates with peak prominence.

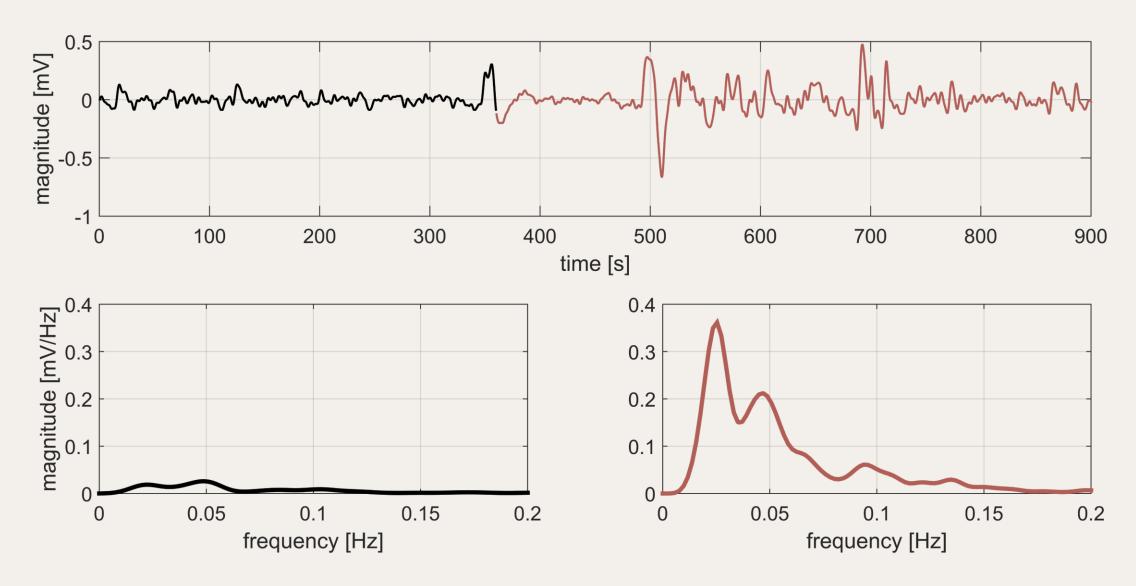
Experimental protocol



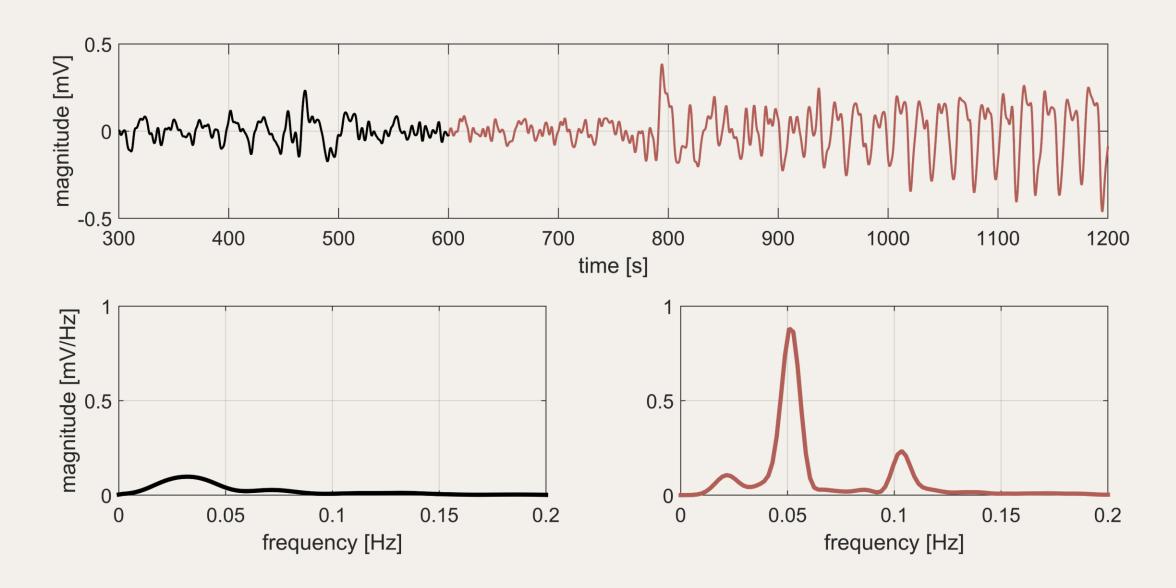
Visual observation – Subject ID1 fasting



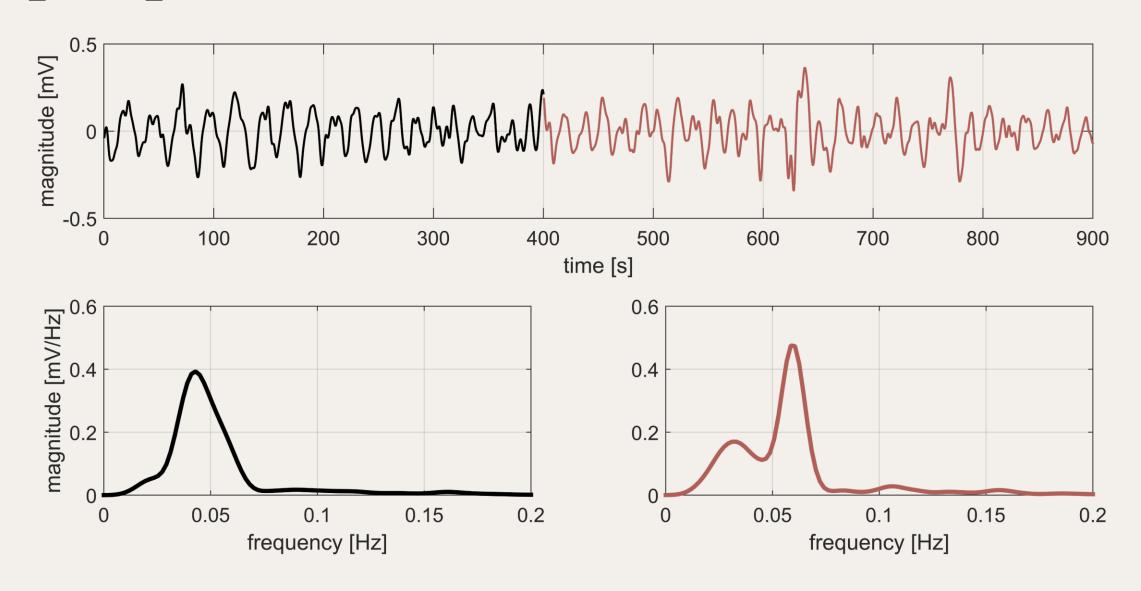
Visual observation – Subject ID1 postprandial



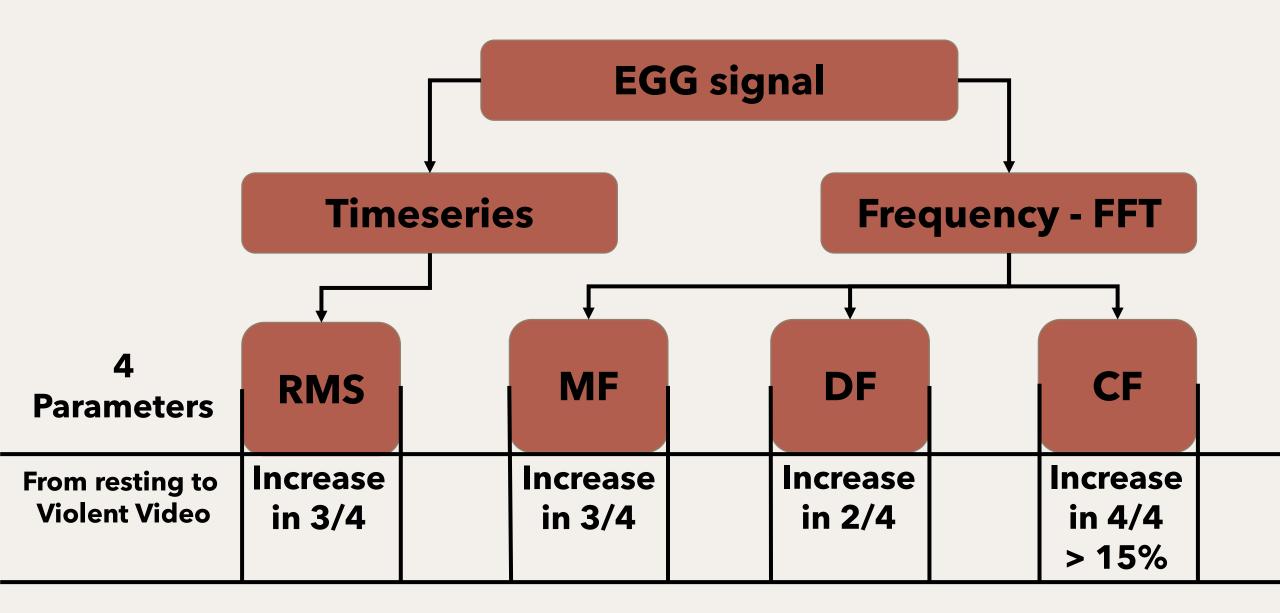
Visual observation – Subject ID2 fasting



Visual observation – Subject ID2 postprandial



Quantitative results



Discussion

Is it better fasting or postprandial?

What parameters should be used?

Different videos -> Different results?

Will EGG response from violent video correlate with some psychological characteristics?

Effects of violent video stimuli on gastric activity: Electrogastrography-based case study

N.B. Popović¹, N. Miljković¹,

G. Knežević², Lj. B. Lazarević³



¹University of Belgrade - School of Electrical Enigineering

²Department of Psychology and Laboratory for research of individual differences, Faculty of Philosophy, University of Belgrade

³Institute of Psychology and Laboratory for research of individual differences, Faculty of Philosophy, University of Belgrade