

Materials List for:

# Measurement & Analysis of the Temporal Discrimination Threshold Applied to Cervical Dystonia

Rebecca B Beck<sup>\*1</sup>, Eavan M McGovern<sup>\*1,2,3</sup>, John S Butler<sup>4</sup>, Dorina Birsanu<sup>1</sup>, Brendan Quinlivan<sup>1</sup>, Ines Beiser<sup>1,2,3</sup>, Shruti Narasimham<sup>1</sup>, Sean O'Riordan<sup>2,3</sup>, Michael Hutchinson<sup>2,3</sup>, Richard B Reilly<sup>1,5</sup>

<sup>1</sup>School of Engineering, Trinity College Dublin, The University of Dublin

<sup>2</sup>Department of Neurology, St. Vincent's University Hospital

<sup>3</sup>School of Medicine and Medical Sciences, University College Dublin

<sup>4</sup>School of Mathematical Sciences, Dublin Institute of Technology

<sup>5</sup>School of Medicine Trinity College Dublin, The University of Dublin

\*These authors contributed equally

Correspondence to: Rebecca B Beck at [beckr@tcd.ie](mailto:beckr@tcd.ie)

URL: <https://www.jove.com/video/56310>

DOI: [doi:10.3791/56310](https://doi.org/10.3791/56310)

## Materials

Name	Company	Catalog Number	Comments
TDT head set	Can be supplied by Trinity Centre for Bioengineering, Trinity College Dublin. Alternatively full instructions are available for free download from <a href="http://www.dystoniaresearch.ie/temporal-discrimination-threshold/">http://www.dystoniaresearch.ie/temporal-discrimination-threshold/</a>	1	A custom-built, portable device for the presentation of visual stimuli.
TDT table top LED box	Can be supplied by Trinity Centre for Bioengineering, Trinity College Dublin. Alternatively full instructions are available for free download from <a href="http://www.dystoniaresearch.ie/temporal-discrimination-threshold/">http://www.dystoniaresearch.ie/temporal-discrimination-threshold/</a>	2	A custom-built, table-top device for the presentation of visual stimuli.
Microcontroller	Can be supplied by Trinity Centre for Bioengineering, Trinity College Dublin. Alternatively full instructions are available for free download from <a href="http://www.dystoniaresearch.ie/temporal-discrimination-threshold/">http://www.dystoniaresearch.ie/temporal-discrimination-threshold/</a>	3	A custom-built microcontroller for the delivery of visual stimuli in staircase or random order, with precise inter-stimulus intervals.