



## SCHIZOPHRENIA Factsheet

October 2020

### What is N170 event-related potential?

The N170 wave is an event-related brain potential (ERP) measured using electroencephalography (EEG). The N170 is a negative waveform that peaks at approximately 170 msec after stimulus presentation. It is observed at occipitotemporal sites and with greater amplitude over the right hemisphere. The N170 ERP is observed in response to a variety of facial stimuli, so it may reflect a neural mechanism for detection of human faces.

### What is the evidence for N170 event-related potential?

High quality evidence shows people with schizophrenia have a medium-sized reduction in N170 amplitude compared to controls in response to face stimuli. There were no differences in effect size according to different face stimuli (e.g. emotional vs. non-emotional or no judgment).



NeuRA (Neuroscience Research Australia) is one of the largest independent medical and clinical research institutes in Australia and an international leader in neurological research.

Diseases of the brain and nervous system pose the greatest health, economic and social burden of any disease group because they are chronic, debilitating and have no known cures.

Medical research is the cornerstone of efforts to advance the health and wellbeing of families and the community. Our dedicated scientists are focussed on transforming their research into significant and practical benefits for all patients.

While we hope you find this information useful, it is always important to discuss any questions about schizophrenia or its treatment with your doctor or other health care provider.

For more information see the technical table

### HOW YOUR SUPPORT HELPS

We are able to make significant advances due to the generosity of countless people. Your donation allows us to continue to work towards transforming lives. For information on how you can support our research, phone 1300 888 019 or make a secure donation at [neura.edu.au/donate/schizophrenia](http://neura.edu.au/donate/schizophrenia).