Supplementary Figure Captions

Supplementary Figure 1: Speech waveforms for the sentence “The young boy left home” in clear (top), conversational (middle) and compressed (bottom) speech modes. The broadband speech envelope for these stimuli is plotted immediately above each speech waveform.

Supplementary Figure 2, left column: Grand average cortical responses and broadband speech envelope for “conversational” stimulus condition. The black lines represent the broadband speech envelope for the conversational speech condition, the red lines represent cortical activity measured at right-hemisphere electrodes and the blue lines represent activity from left-hemisphere electrodes. The speech envelope was shifted forward in time 85 msec to enable comparison to cortical responses. Right column: cross-correlograms between “conversational” speech envelope and raw cortical responses.

Supplementary Figure 3, left column, Grand average cortical responses and broadband speech envelope for “compressed” stimulus condition. The black lines represent the broadband speech envelope for the compressed speech condition, the red lines represent cortical activity measured at right-hemisphere electrodes and the blue lines represent activity from left-hemisphere electrodes. The speech envelope was shifted forward in time 85 msec to enable comparison to cortical responses. Right column: cross-correlograms between “compressed” speech envelope and raw cortical responses.