Initiation and Phonation

1. (a) On this page, you will find waveforms of eight VCV utterances that differ in their medial consonants. The symbols for the consonants are: \( p^h \), \( p \), \( \text{ɓ} \), \( m \), \( m^\ddot{ } \), \( m^\dddot{ } \), and \( b \) are also shown in the box below. Write the appropriate consonant symbol above each waveform.

   **Hint:** \( m^\dddot{ } \) is matched for you.

(b) Draw a line through each waveform at two points in time: achievement of labial closure, release of labial closure.

(c) Production of some of the utterances shown would have involved activation of the posterior crico-arytenoid (PCA) muscle. For those, indicate the approximate temporal interval in which you would expect to observe PCA activation with a circle or box.