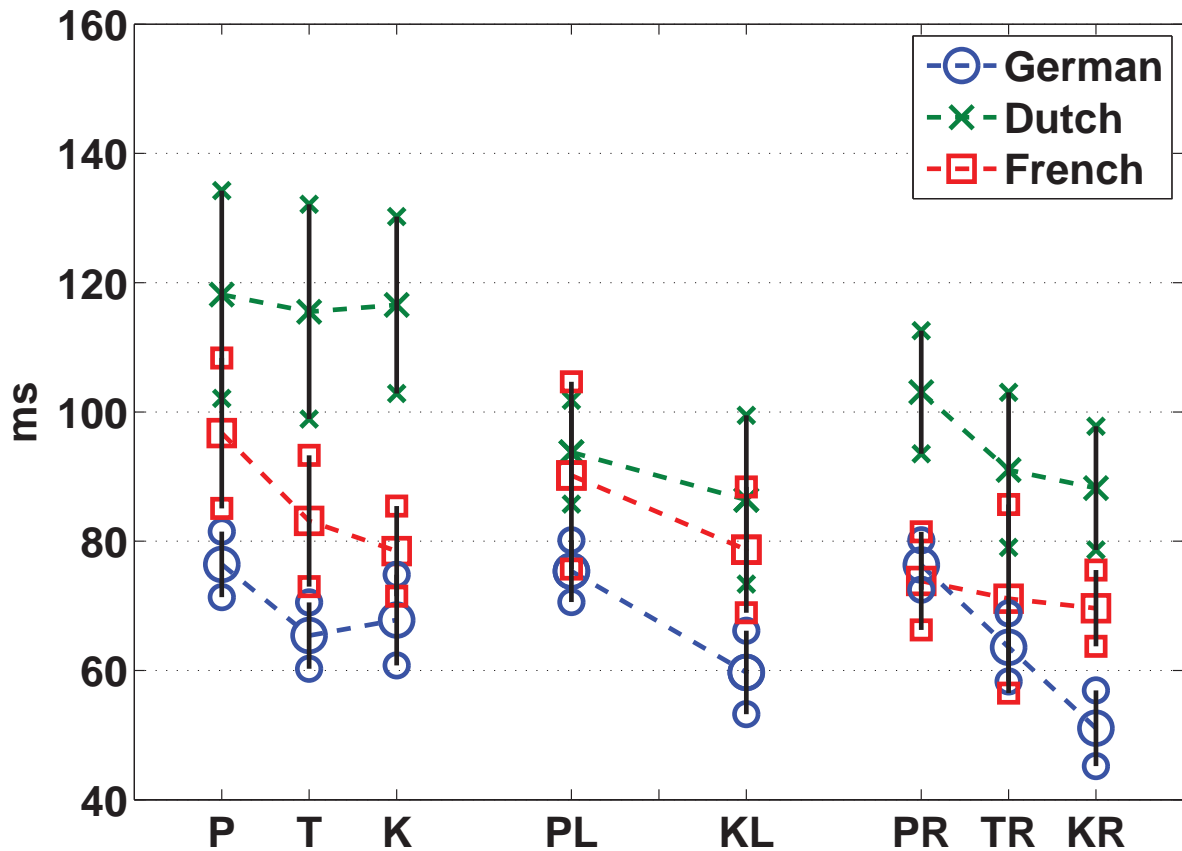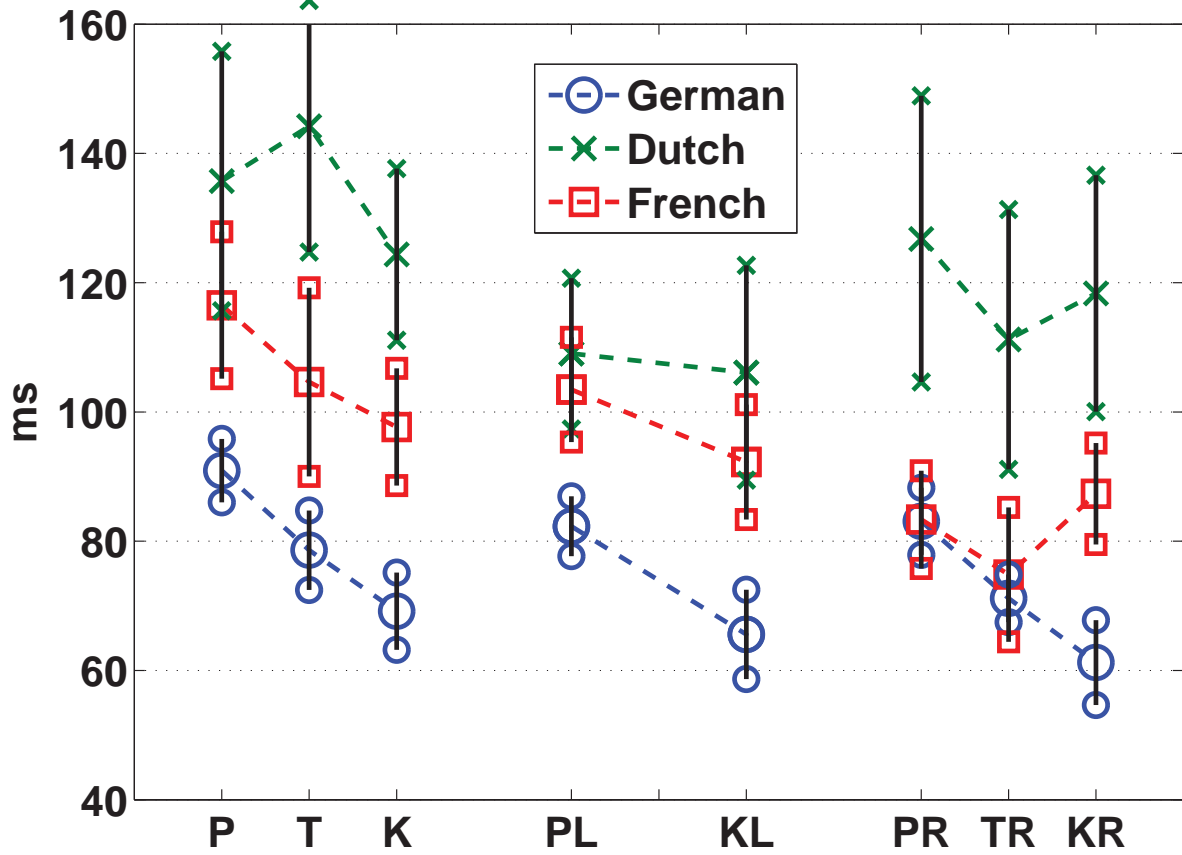Supplemental Material 1. Results for occlusion duration of C1, broken down by language (colour and symbols) and all combinations of C1 and C2 (position on x-axis). Neutral prosodic condition. Unlike the corresponding figures in the main body of the paper this figure and the following figures thus give a full breakdown with respect to place of articulation of C1, but show prosodic condition in separate figures. Error bars represent 2.5 times standard error of mean.
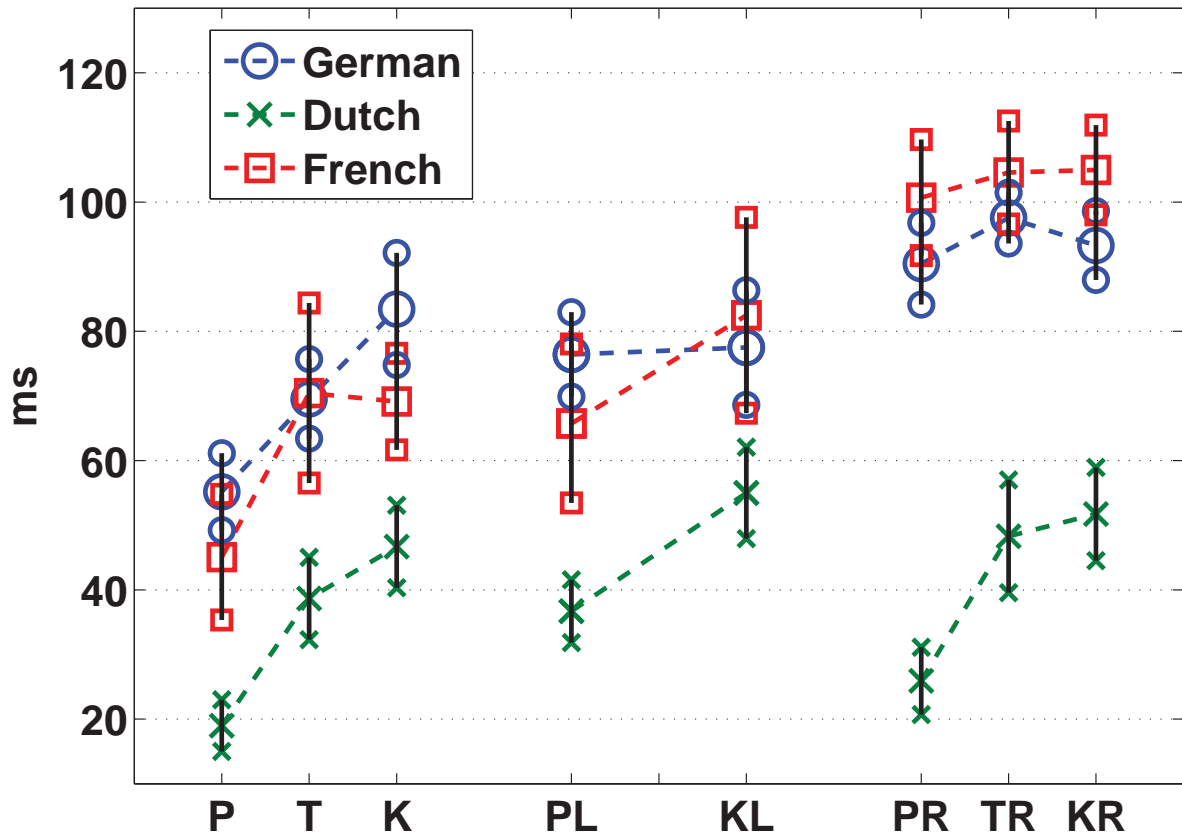
Supplemental Material 2. Results for occlusion duration of C1. Strong prosodic condition. Other details as in Supplemental Material 1.
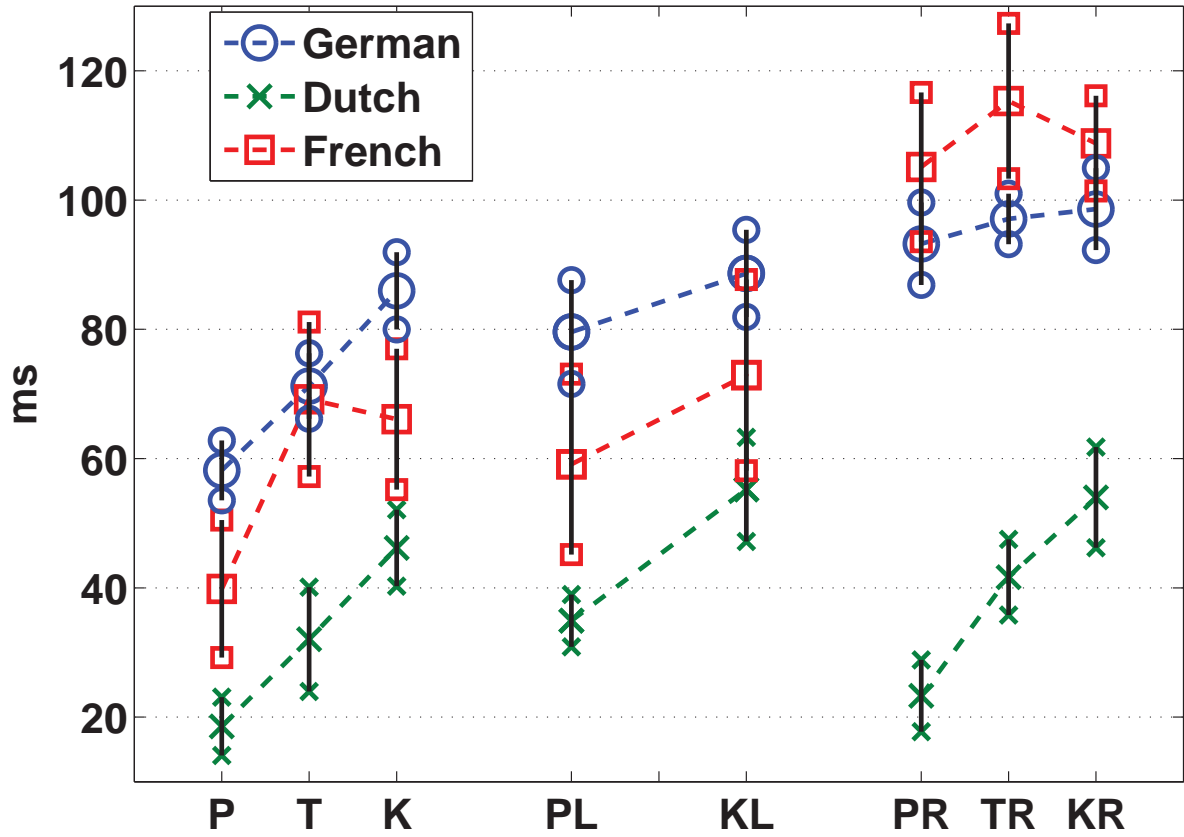
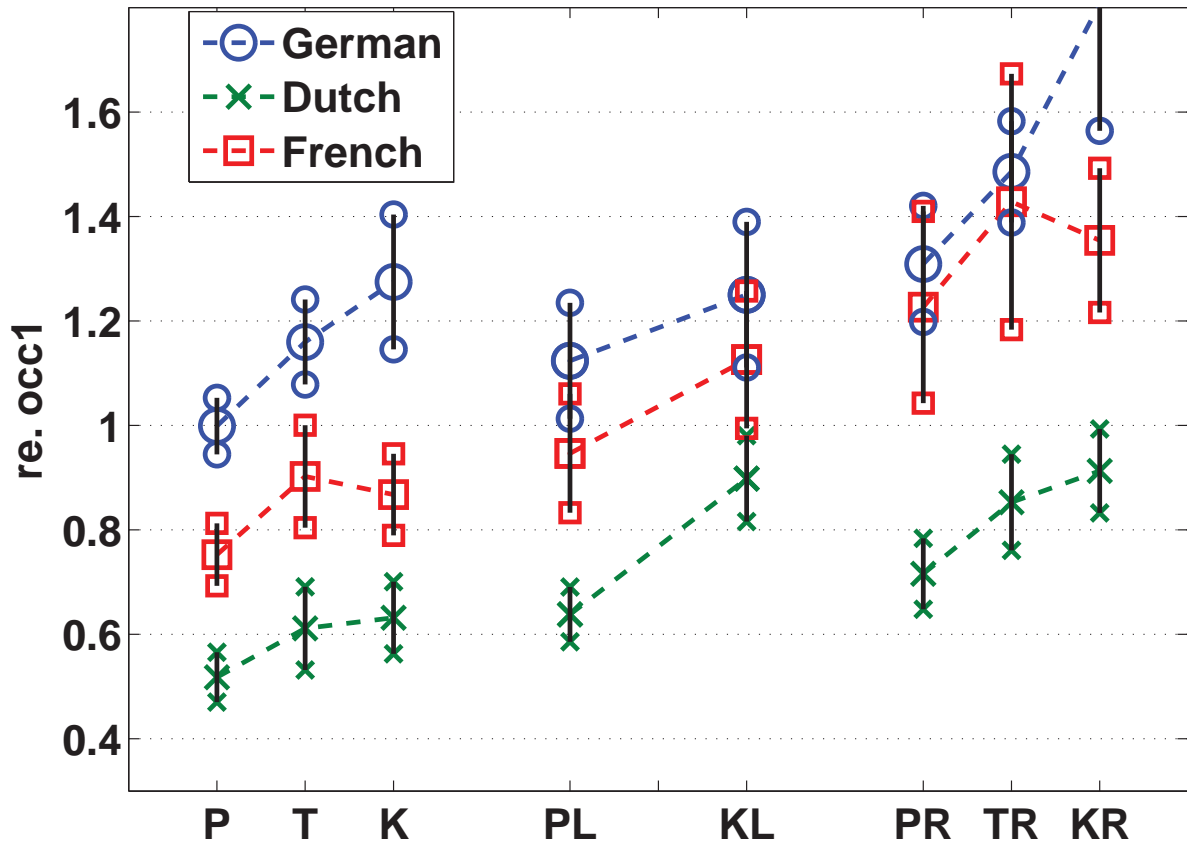**Supplemental Material 3**. Results for Voice Onset Time. Neutral prosodic condition. Other details as in Supplemental Material 1.
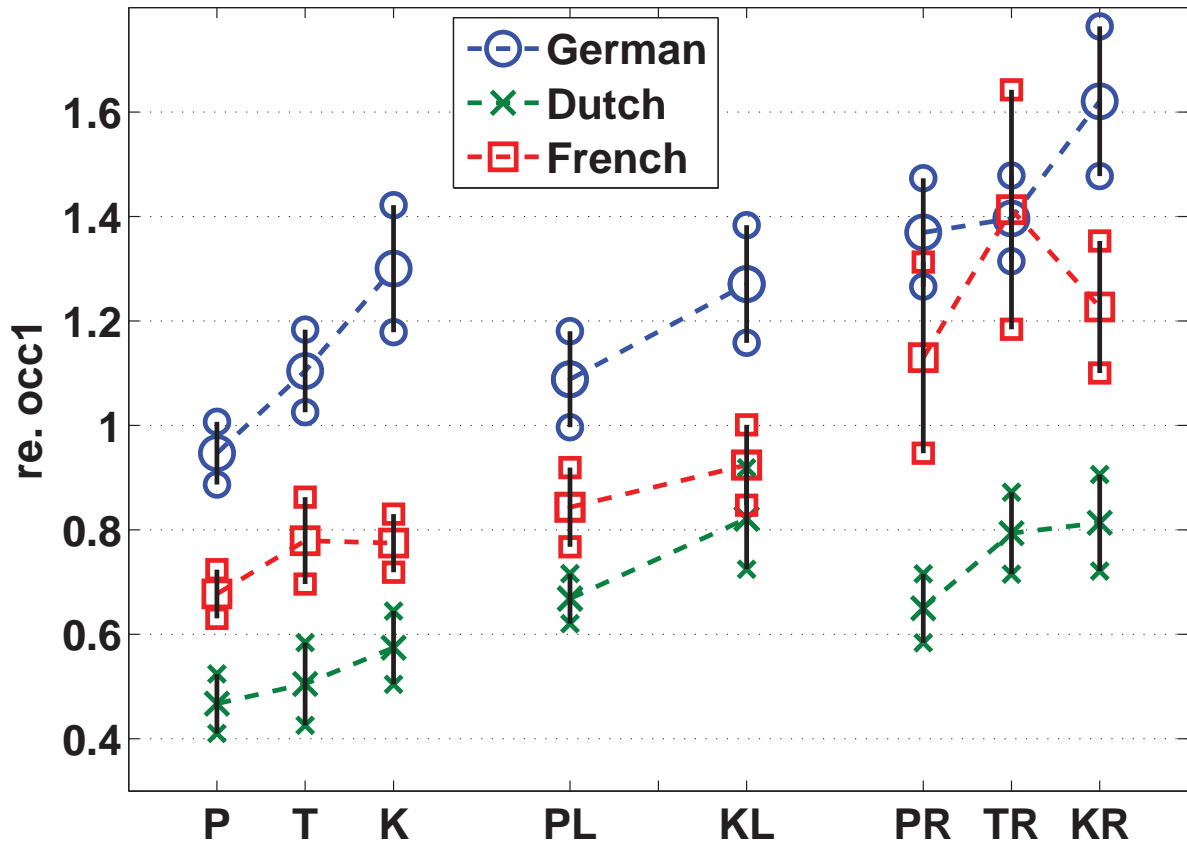
Supplemental Material 4. Results for Voice Onset Time. Strong prosodic condition. Other details as in Supplemental Material 1.

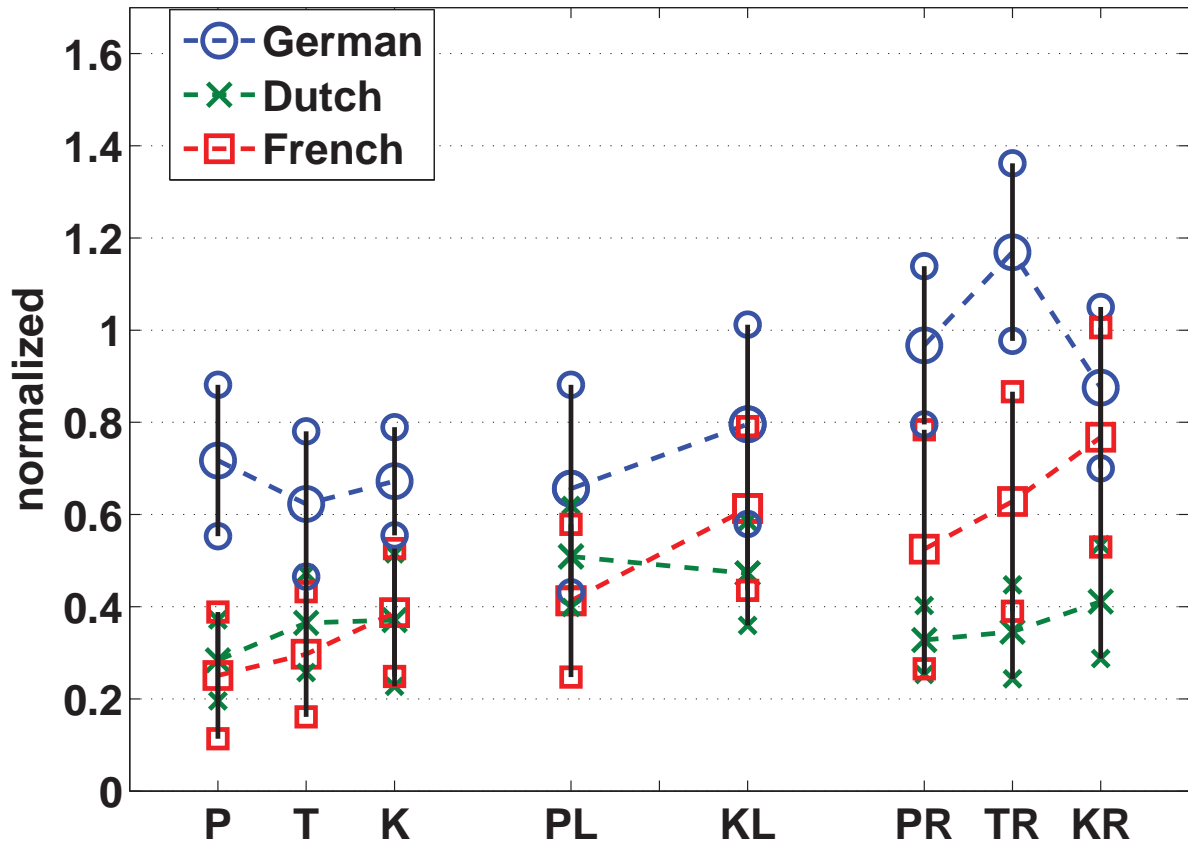**Relative timing of peak glottal opening**
Prosody: neutral

Supplemental Material 5. Results for relative position within C1 of Peak Glottal Opening. Neutral prosodic condition. Other details as in Supplemental Material 1.
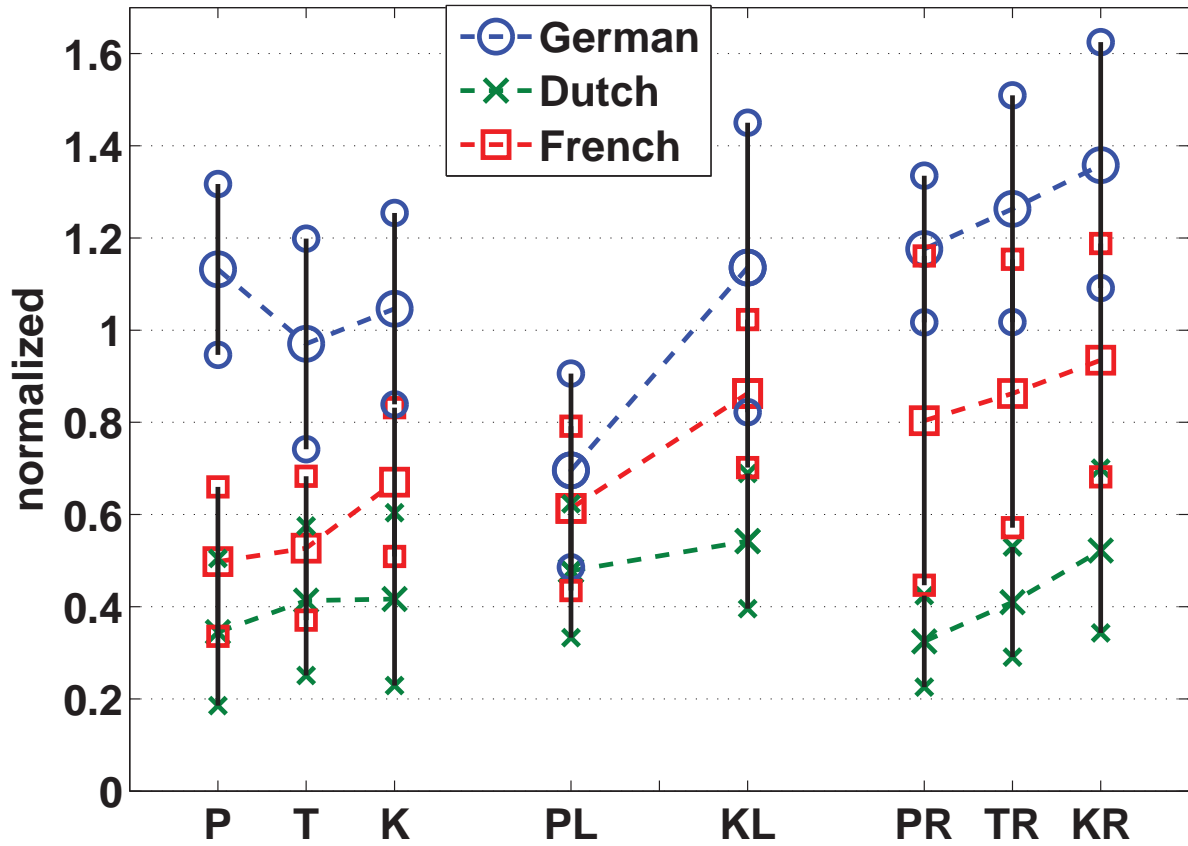
Supplemental Material 6. Results for relative position within C1 of Peak Glottal Opening. Strong prosodic condition. Other details as in Supplemental Material 1.
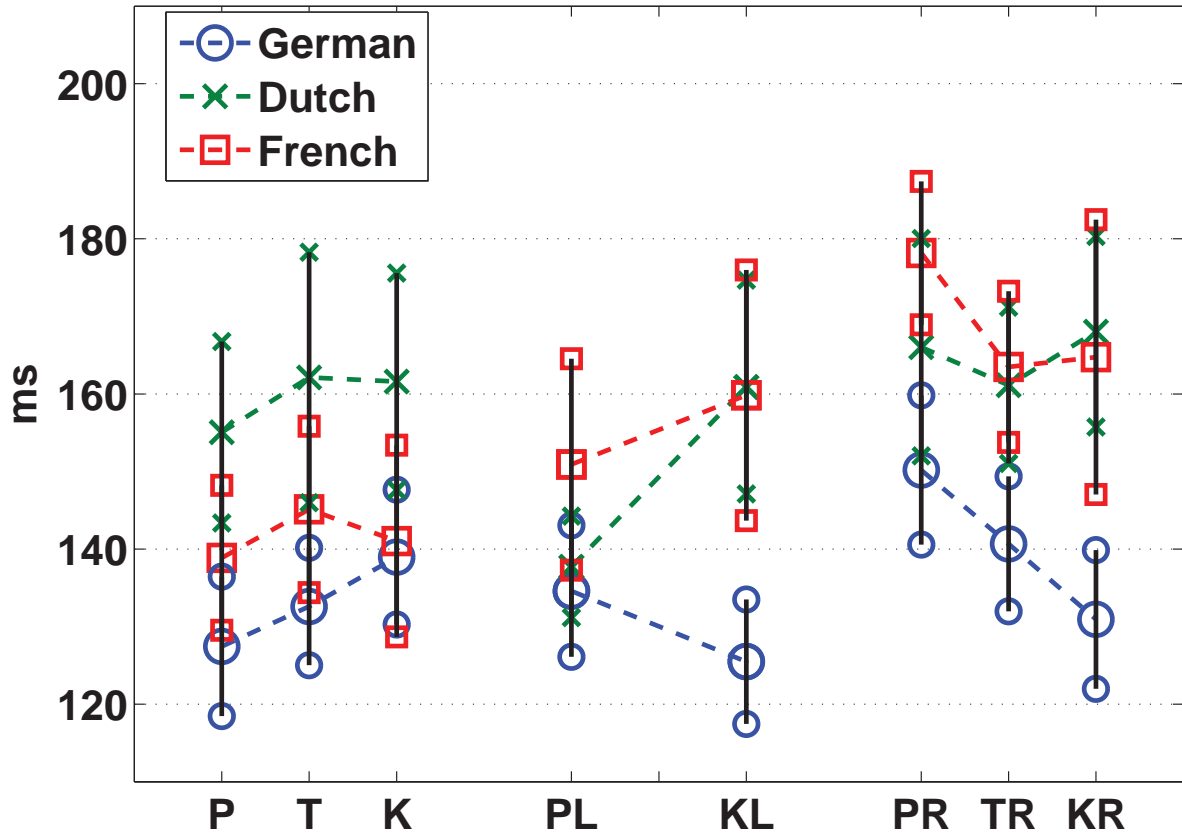
Supplemental Material 7. Results for magnitude of Peak Glottal Opening. Neutral prosodic condition. Other details as in Supplemental Material 1.
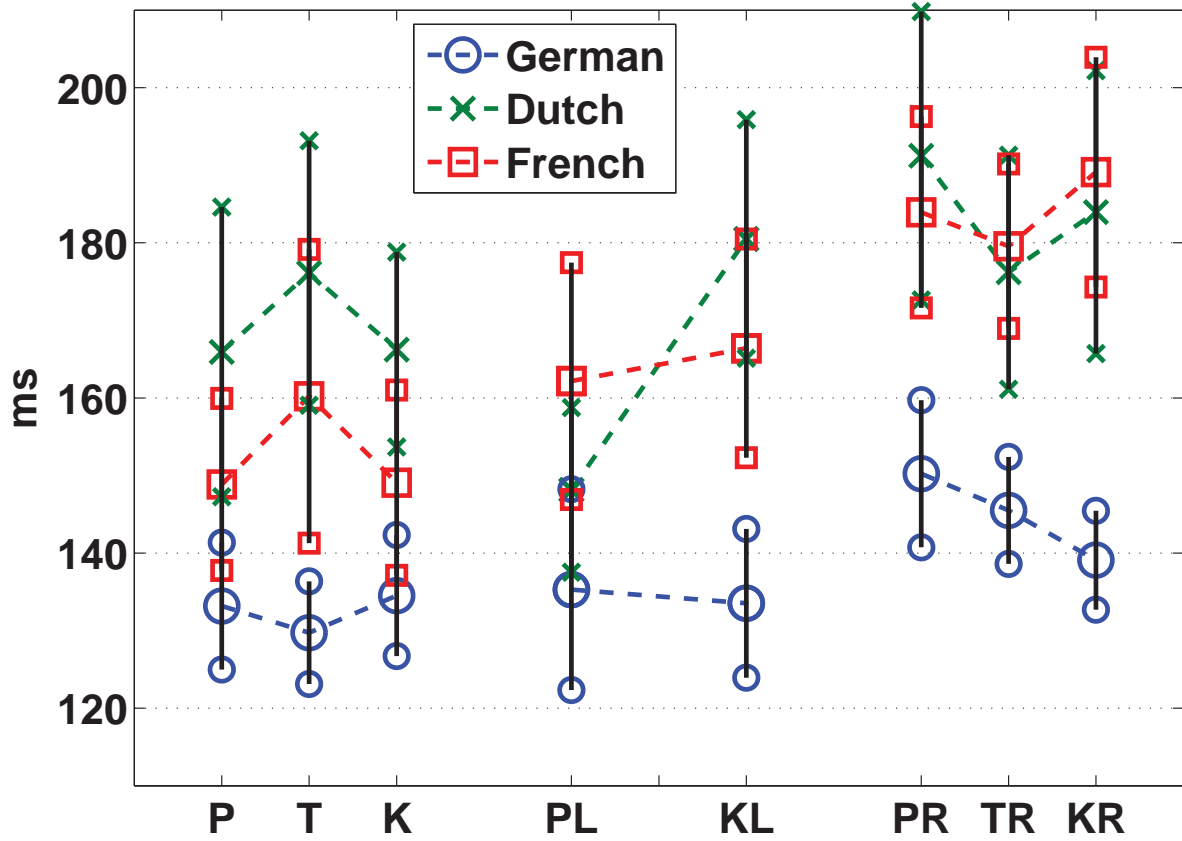
Supplemental Material 8. Results for magnitude of Peak Glottal Opening. Strong prosodic condition. Other details as in Supplemental Material 1.

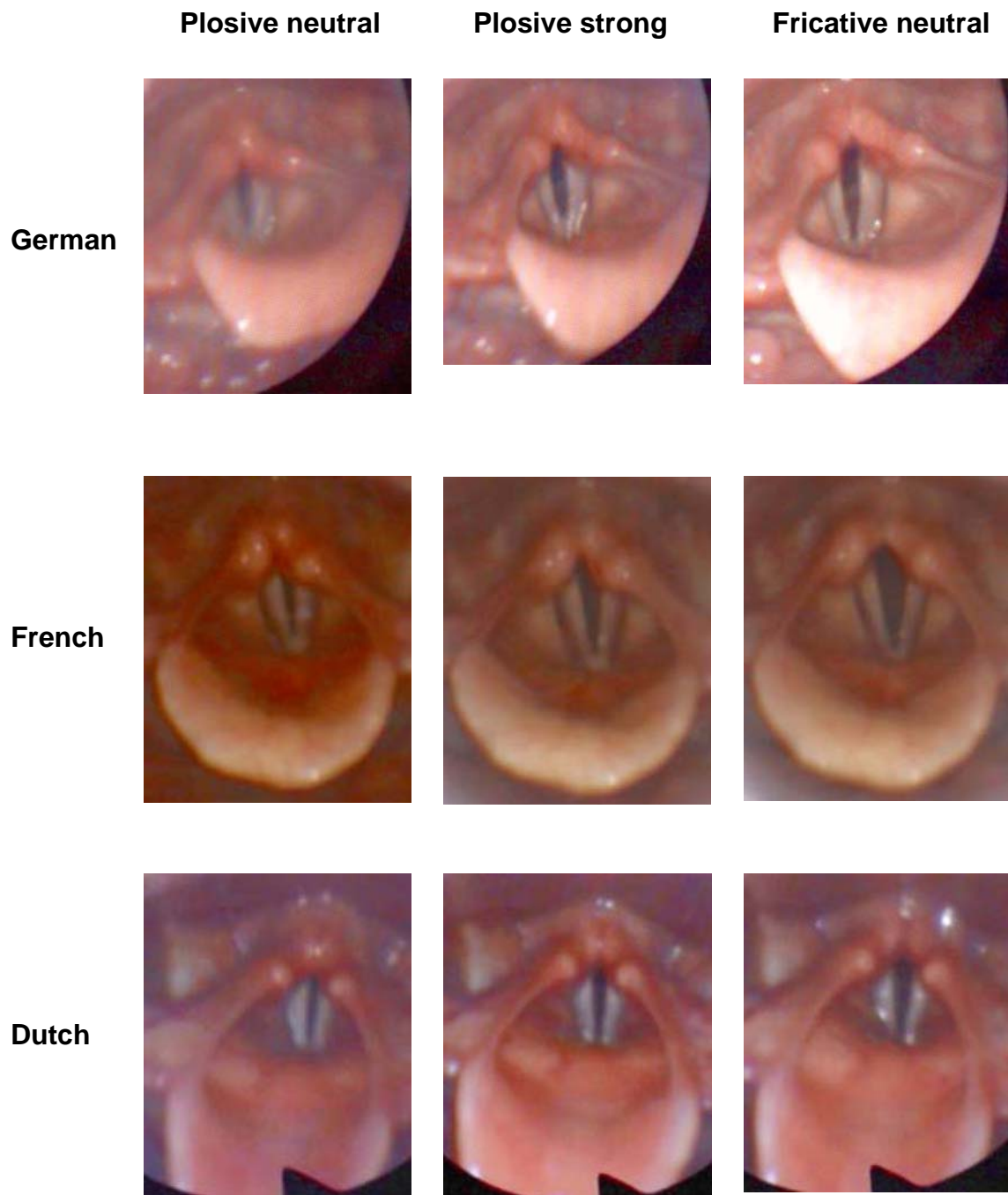**Supplemental Material 9**. Results for glottal gesture duration. Neutral prosodic condition. Other details as in Supplemental Material 1.

Supplemental Material 10. Results for glottal gesture duration. Strong prosodic condition. Other details as in Supplemental Material 1.

	Plosive neutral	**Plosive strong**	**Fricative neutral**
German			
French			
Dutch			

Supplemental Material 11: Representative frames of laryngeal images taken from the videoendoscopic films for one speaker of each language for one token of a fricative (in the neutral prosodic condition) and one token of a plosive in the two prosodic conditions. Images extracted at peak glottal opening in the consonant.