COMPARING DEAF AND HEARING DUTCH INFANTS:
CHANGES IN THE VOWEL SPACE IN THE FIRST TWO YEARS

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Overview of the coloured figures 2 to 6.

Figure 2. Reference plane constructed with 1083 measurement points from 250 unlabelled utterances of the five two-year-old normally hearing Dutch infants. The first authors’ corner vowels (capitals for female adult vowels: A, in red, U in blue, and I in green) are projected in this plane as well as the corner vowels from labelled syllables from the hearing infants when 24 months old (a in red, u in blue, and i in green). The ellipses represent 1 SD from the mean.
Figure 3. Reference plane with the corner vowels from labelled syllables from the five hearing infants when 24 months old (a in red, u in blue, and i in green). The lines represent the changes in the means for 6 to 12 (drawn in blue), for 12 to 18 (dotted in green), and for 18 to 24 months of age (dashed in red) for the hearing infants.
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Figure 4. Reference plane with the corner vowels from labelled syllables from the five hearing infants when 24 months old (a in red, u in blue, and i in green). The lines represent the changes in the means for 6 to 12 (drawn in blue), for 12 to 18 (dotted in green), and for 18 to 24 months of age (dashed in grey) for the deaf infants.
Figure 5. The individual paths in vowel productions for the five hearing infants, represented in the inner box of the reference plane. The lines represent the changes in the means for 6 to 12 (drawn in blue), for 12 to 18 (dotted in green), and for 18 to 24 months of age (dashed in red) for the hearing infants. The overall means for 6, 12, 18, and 24 months are given in black.
Figure 6. The individual paths in vowel productions for the five deaf infants, represented in the inner box of the reference plane. The lines represent the changes in the means for 6 to 12 (drawn in blue), for 12 to 18 (dotted in green), and for 18 to 24 months of age (dashed in red) for the deaf infants. The overall means for 6, 12, 18, and 24 months are given in black.
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