P1-E-87

The Influence of Prenatal Language Exposure on The Melody of Infant Vocalisations: A Systematic Review



Elanie van Niekerk, Caroline Junge, Aoju Chen e.a.vanniekerk@uu.nl



INTRODUCTION

Convergence of evidence that early speech perception skills have a prenatal origin^{1,2}

Little information about early production skills

Is the prosody of infants' early vocalisations influenced by prenatal exposure to the prosody of their native language?



 Production studies analyzing pitch patterns of vocalisations of healthy,

SEARCH

5 Databases, reference lists, grey literature, contacting authors

SCREEN

Title and abstract, then full-text screening by three reviewers with minimum interrater agreement 88%

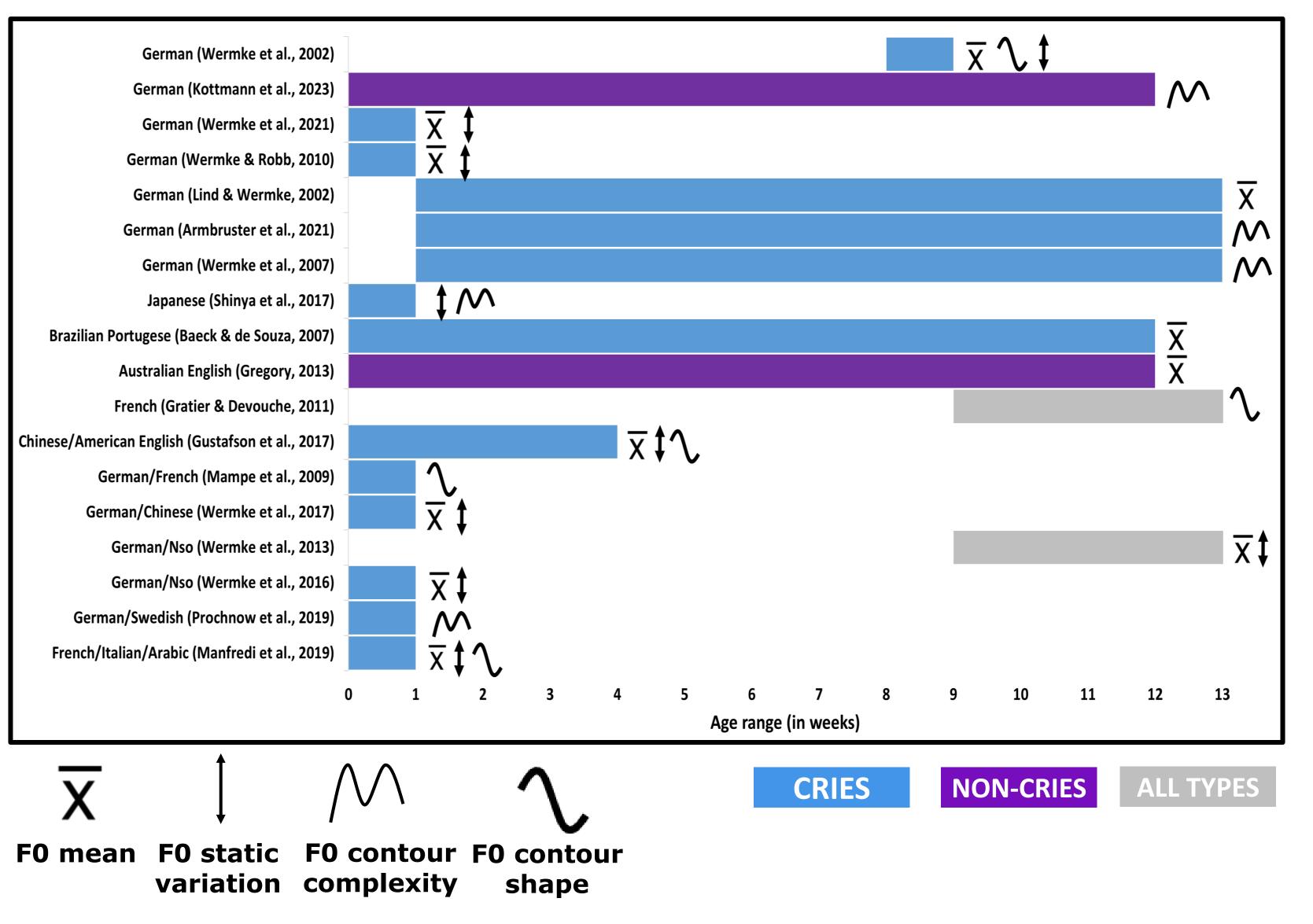
monolingual infants aged 0-3 months EXTRACT JBI⁴ tool, N=18

SYNTHESIS Narrative approach

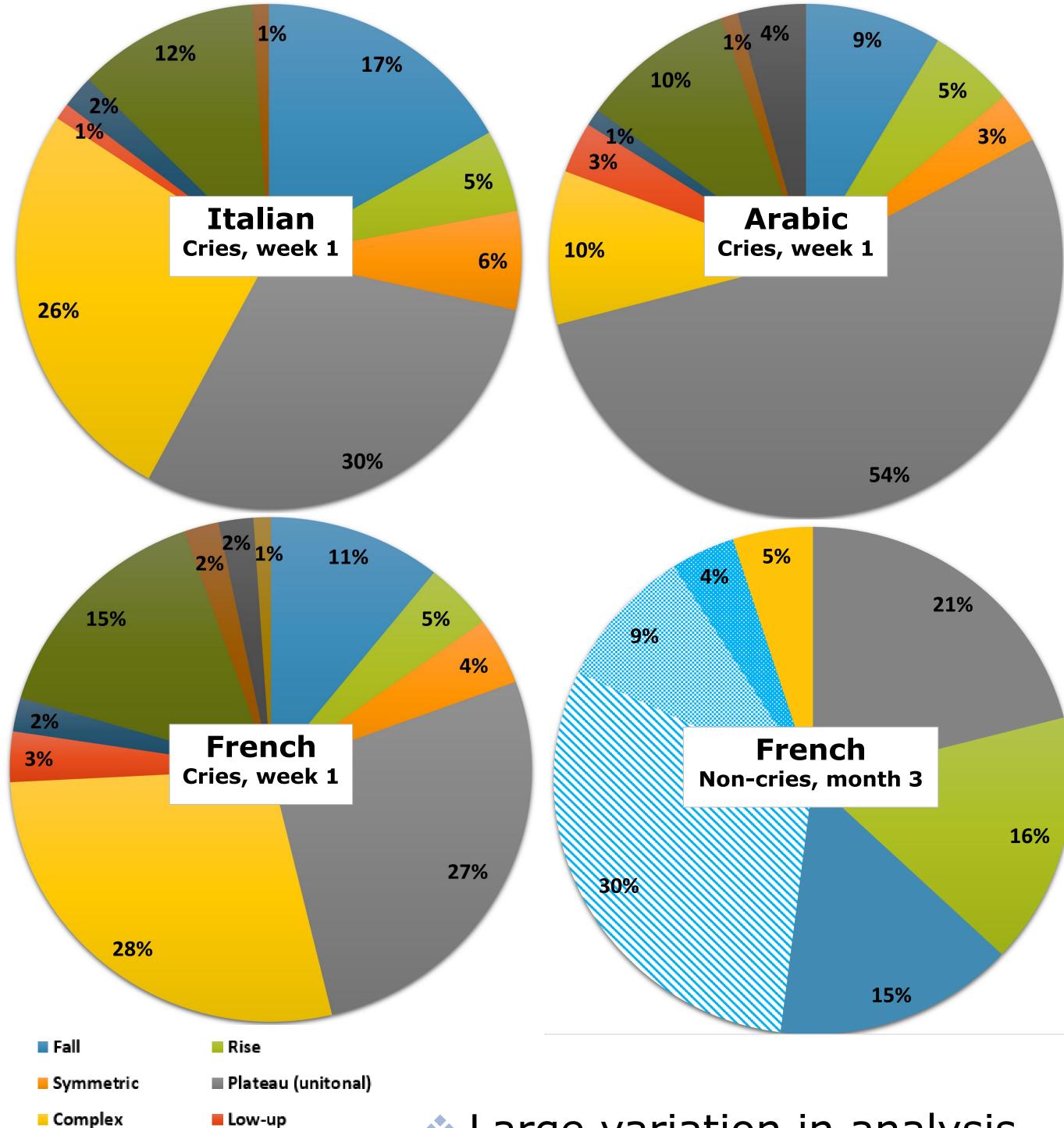
BARESULTS

3.1 STUDY CHARACTERISTICS

Language, age, vocalisation type, f0 parameter analysed

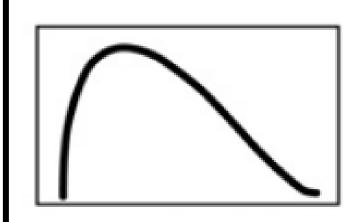


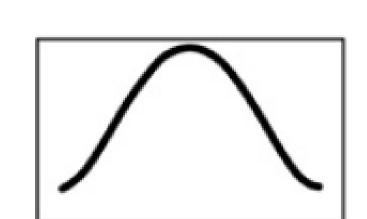
Categorical description of pitch contour shapes

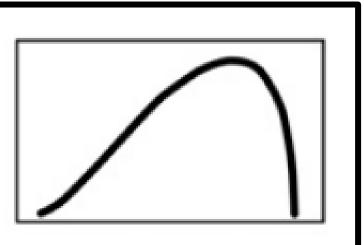


3.2 PITCH CONTOUR SHAPE FINDINGS

Position of maximum pitch in time-normalized cry contours







 Large variation in analysis criteria used to determine pitch contour shape

4) CONCLUSION

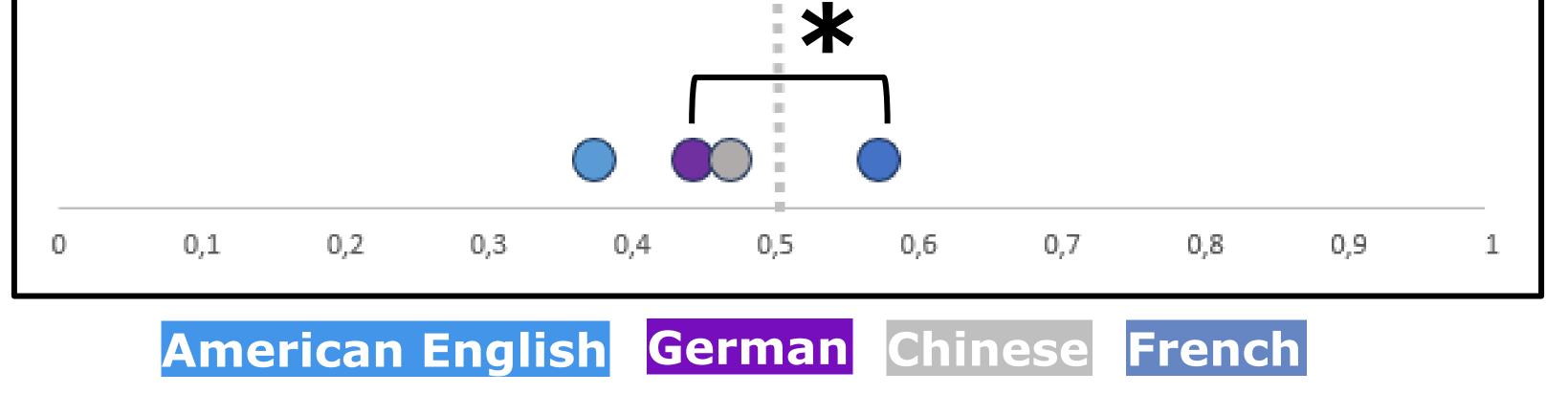
🔨 Bell

🐹 U

Frequency step

Unstructured

Mixed evidence for cross-linguistic differences in pitch contour shape in infants aged 0-3 months



- Initial finding (Mampe et al., 2009) of German (falling) versus French (rising) infants' cry contours not replicated
- Cry contours of French infants more varied than initial finding

Variation in how pitch patterns of early vocalisations are reported

RECOMMENDATIONS

The field needs to:

Up-low

Double

Other

🐹 Sinu soidal

 Report pitch parameters systemically and in congruent manners to tease apart how prosodic organization occurs within production

Increase focus on non-cries (as opposed to cries) and languages with diverse prosodic typologies

Make data publicly available