



Multilingual Children's Speech Development



POLISH

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**Presented by: Paulina Zydorowicz (English version)
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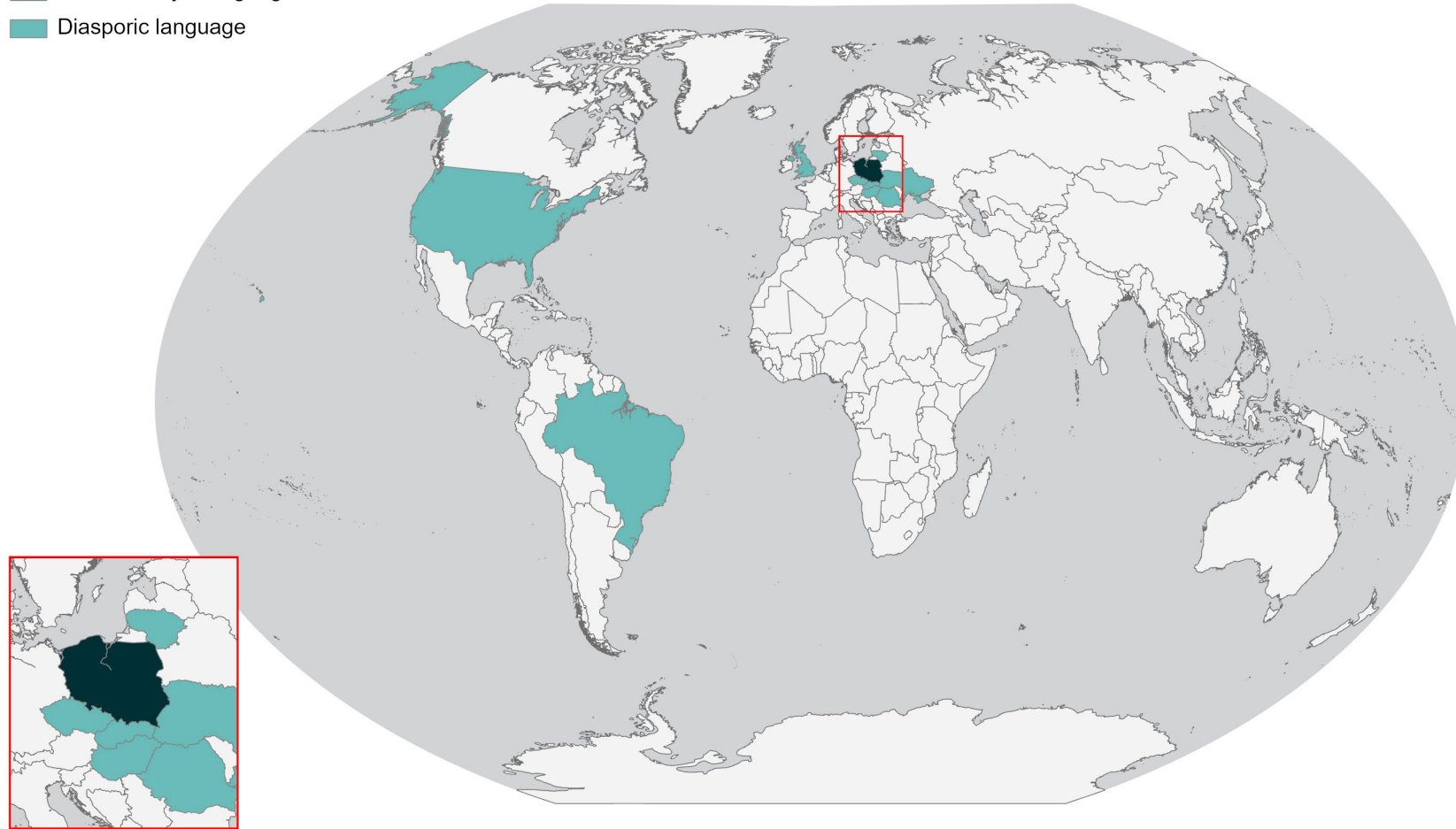


Polish

- **Commonly spoken in**
 - Poland
- **Dialects and variants**
 - General Polish (the standard variety) contains 2 pronunciation norms: Warsaw speech and Poznań-Cracow speech
 - Greater Polish
 - Lesser Polish
 - Masovian
 - Silesian
 - New Mixed Dialects
- **Writing**
 - Left to right. Latin alphabet (Roman script)

Polish Map

- Official / major language
- Diasporic language



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Polish

Speech Components

- **Consonants (33):** /p, b, t, d, k, g, c, ʃ, f, v, s, z, ʂ, ʐ, ɛ, ɛ̃, x, ts, dz, tʂ, dʐ, tɕ, dʑ, m, n, ŋ, ŋ, r, l, w, ɥ̃, j, j̃/ (Jassem 2003)
- **Consonant clusters:** e.g. initial, medial & final
 - Initial: sonority-rising /prV, pʂV/, reversals /stV, rvV/ and plateaus /mnV, ssV/
- **Vowels (6):** /i, ĩ, ε, a, ɔ, u/ (Jassem 2003)
- **Tones (0):** None
- **Phonotactic restrictions:** C₍₀₋₄₎V₍₀₋₂₎C₍₀₋₅₎
- **Prosody:** Polish is placed on a continuum between stress-timed and syllable-timed rhythm

Polish

Age of Acquisition

■ Consonants

- Early /p, b, t, d, k, g, m, n, ŋ/
- Middle /l, w, s, z, ʦ, dʒ, ɕ, ʐ, tɕ, dʒ, f, v, x/
- Late /ɕ, ʐ, tɕ, dʒr/

■ Consonant clusters

- Word-medial clusters are most common, followed by word-initial and then word-final clusters

■ Vowels

- Early /i, i̯, ε, a, ɔ, u/
- Late /ɔ̃/, /ɛ̃/ (the so called nasal vowels)

■ Tones

- Not-applicable

Polish

Speech Development

- **Percentage correct**
 - Age of acquisition of particular consonants reported by Bryndal (2015) and Sołtys-Chmielowicz (1998)
- **Intelligibility**
 - Data unavailable
- **Common phonological patterns**
 - Cluster reduction
 - Final consonant deletion
 - Metathesis
 - Lateralization of /r/
 - Substitution
 - Palatalization
 - Depalatalization
 - Obstruent devoicing

Polish Children with Speech Sound Disorders

■ Also called

- Wady wymowy → speech sound disorders
- Zaburzenia artykulacji → articulation disorders
- Dyslalia → dyslalia

■ Research has focused on

- Assessment of speech sound disorders and identification of common phonological patterns
- Cleft palate, hearing loss, occlusion defects

■ Studies (examples)

- Kurkowski (1996): children with hearing disorders
- Konopska (2006): a study of 205 children, adolescents and adults with occlusion defects
- Pluta-Wojciechowska (2011): children with cleft palate
- Ostapiuk (2013): children and adults with ankyloglossia

Polish Speech Assessments

- **100-wyrazowy Test Artykulacyjny**
[A 100-word articulation test]
(Krajna, 2008)
- **Test Powtarzania Pseudo słów (TPP)**
[A test of non-word repetition]
(Szewczyk et al., 2015)
- **Skala umiejętności fonologicznych**
[The scale of phonological abilities]
(Koźniewska & Matuszewski, 2003)

Polish Speech Interventions

- **SMURF [Strategic method of enhancing phoneme realization]**
(Pluta-Wojciechowska 2018a)
- **Fizjologiczna terapia miofunkcjonalna FTM [Physiological myofunctional therapy]**
(Pluta-Wojciechowska 2018b)

Reference

Book chapter

- Zydorowicz, P., & E. Czaplewska (forthcoming). Polish speech development. In S. McLeod (Ed.). *The Oxford handbook of speech development in languages of the world*. Oxford University Press.

Presentation

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<https://www.csu.edu.au/research/multilingual-speech/languages>

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