

Incidence of Non-Syndromic and Syndromic Craniosynostosis in Puerto Rico: *A Population-Based Study*

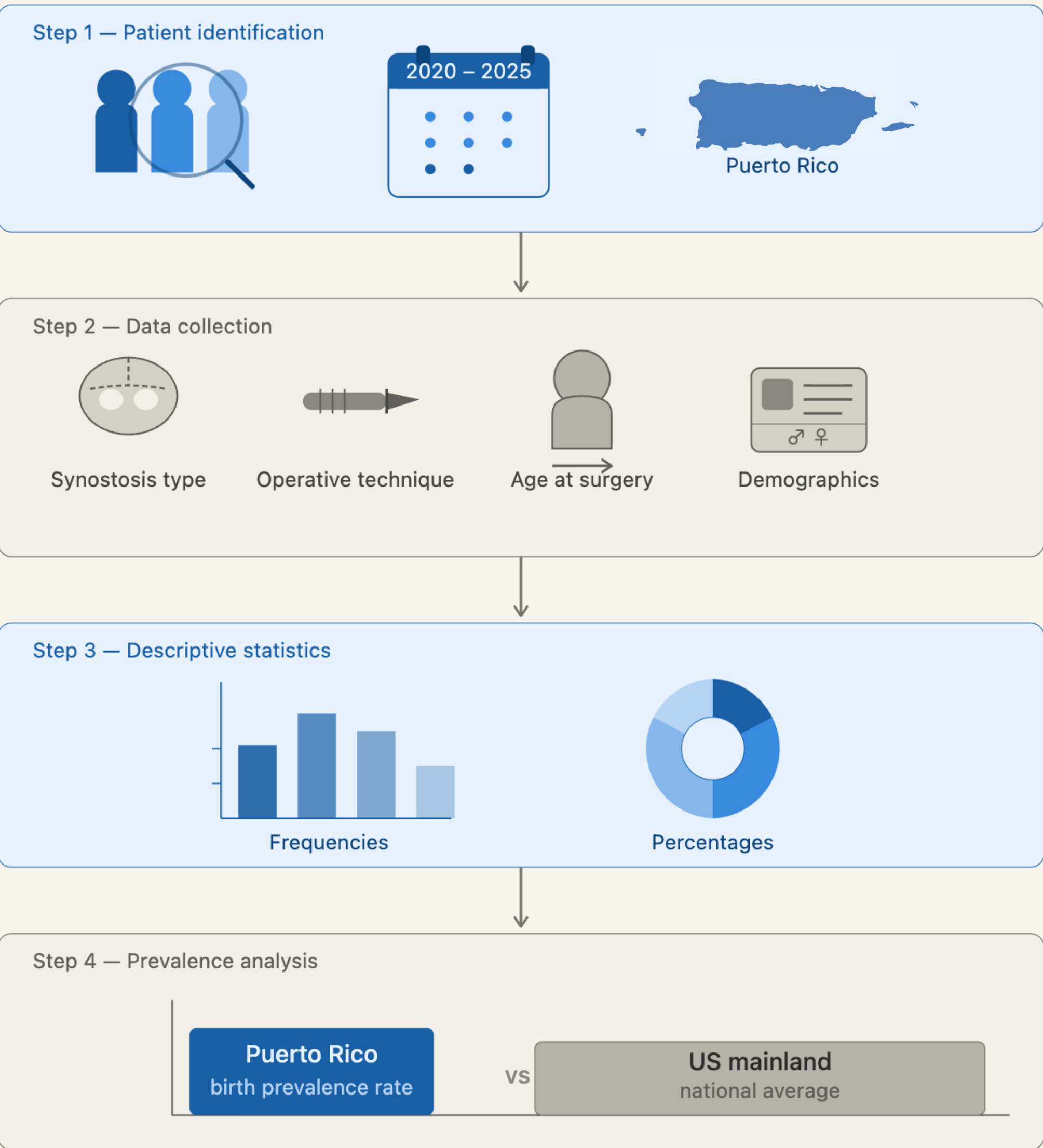
David A. Febre-Alemañy, BS²; Victoria I. García Rodríguez, BS²; Adanis Bravo-Cordero, BS²; Liara S. Ortiz Ocasio, MD¹; Ángel Rivera-Barrios, MD¹; Iván J. Sosa-González, MD^{3,4}; Samuel Estronza-Ojeda, MD³; Jonatán Hernández-Rosa, MD¹

¹UPR School of Medicine, Dept. of Surgery, Division of Plastic Surgery, San Juan, PR • ²San Juan Bautista School of Medicine, Caguas, PR • ³UPR School of Medicine, Dept. of Surgery, Division of Neurosurgery, San Juan, PR • ⁴Hospital Menonita Caguas, Neurosurgery, PR

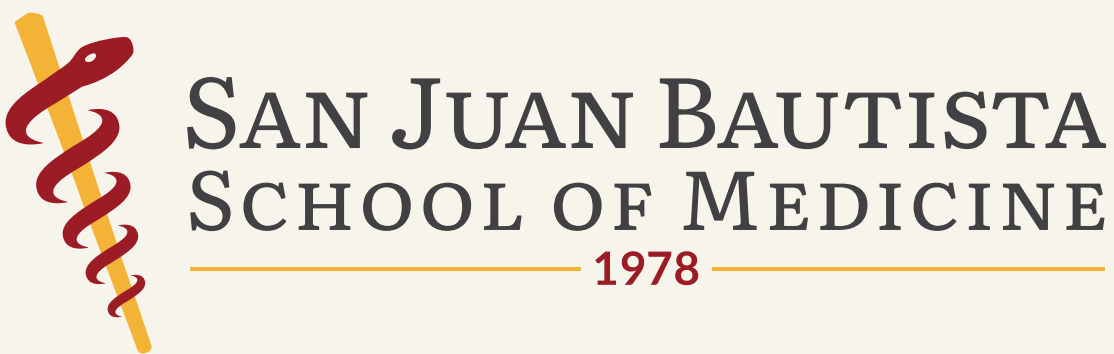
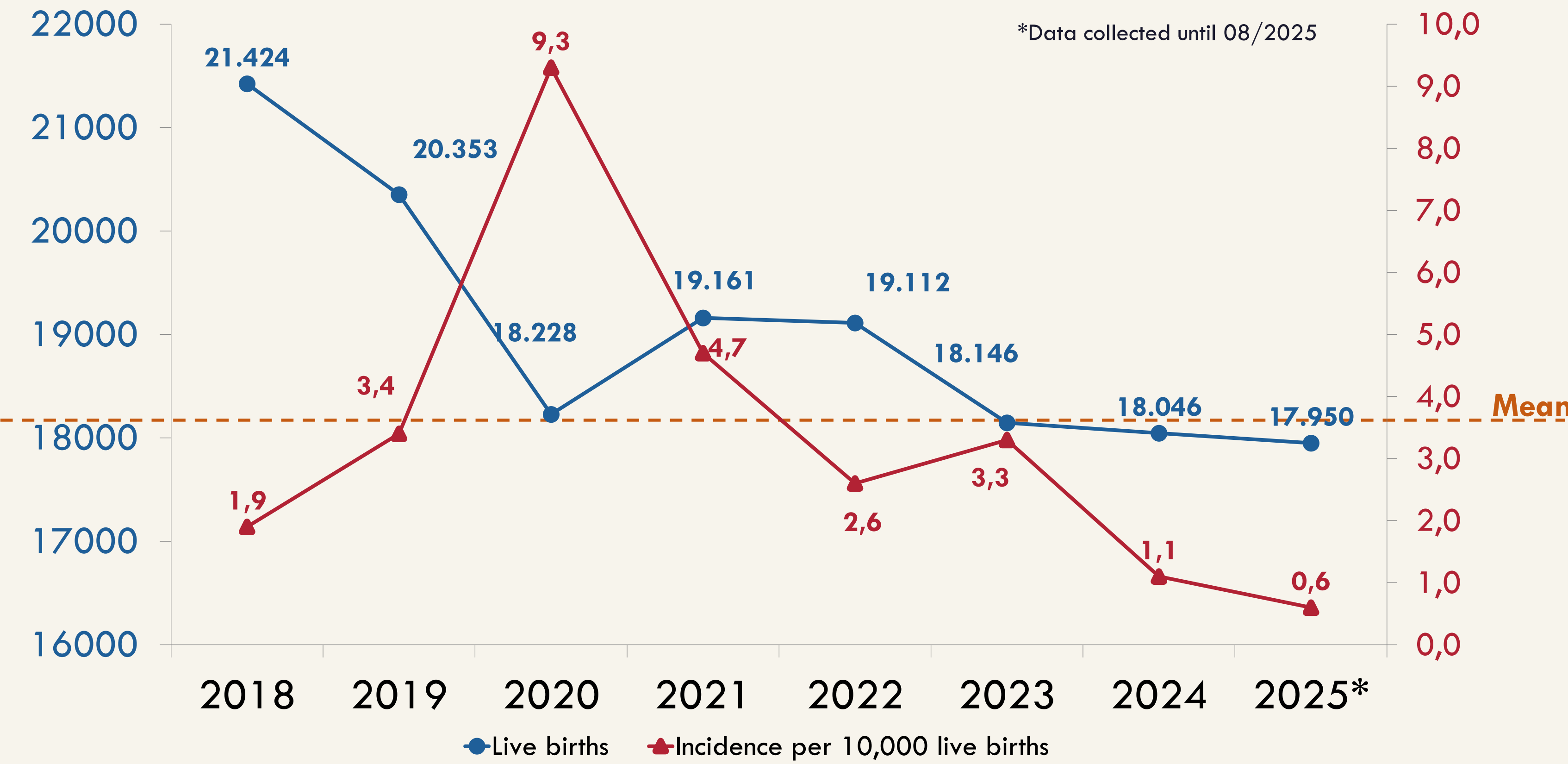
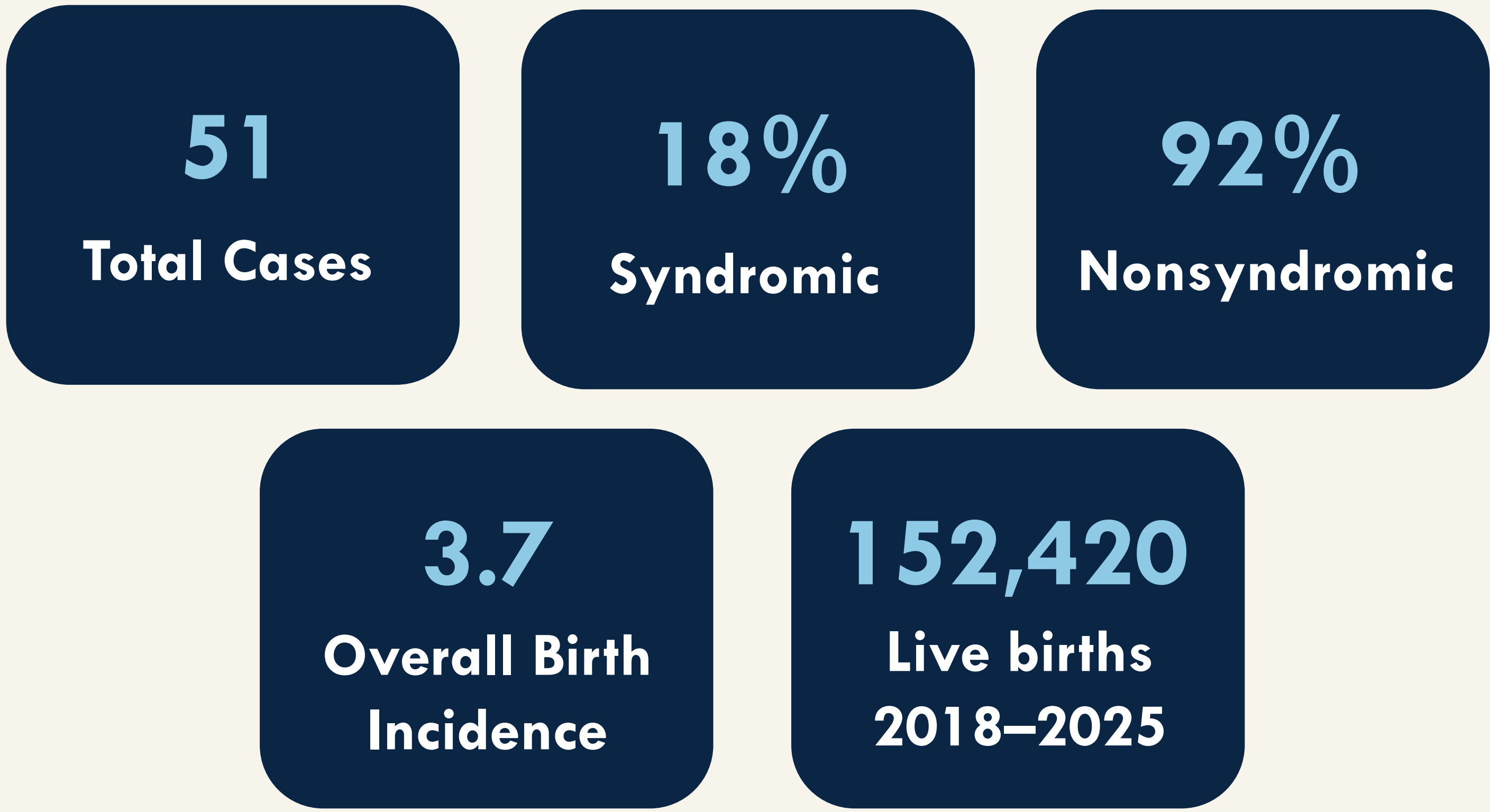
BACKGROUND

Craniosynostosis, the premature fusion of cranial sutures, affects 1 in 2,500 births in the US. In Puerto Rico, epidemiologic data are scarce, and surgical treatment is limited to three subspecialists in San Juan-Metropolitan area. This study presents the first retrospective analysis of surgically treated cases in the region.

METHODS



RESULTS



DISCUSSION

- The mean birth incidence of 3.7 per 10,000 is modestly lower than the US benchmark (~4/10,000) and global average (5.9/10,000).
- Subtype distribution and sex ratios are consistent with global patterns.
- Coastal geographic clustering may reflect founder effects well-documented in the Puerto Rican population.

Distribution of Affected Sutures Among Craniosynostosis Patients in Puerto Rico (2020 – 2025)

