

PRENATAL DIAGNOSIS OF ANENCEPHALY IN THE CZECH REPUBLIC: 20 YEARS OF POPULATION-WIDE SURVEILLANCE

Antonín Šípek Jr.^{1,2}, Vladimír Gregor^{2,3}, Jiří Horáček^{2,4}, Jitka Jírová⁵, Antonín Šípek^{2,3,6}

¹ Institute of Medical Biology and Genetics, 1st Faculty of Medicine, Charles University and General University Hospital, Prague, Czech Republic

² Department of Medical Genetics, Thomayer Hospital, Prague, Czech Republic

³ Department of Medical Genetics, Prenatal Sanatorium, Prague, Czech Republic

⁴ Gennet, Centre for Foetal Medicine and Reproductive Genetics, Prague, Czech Republic

⁵ Institute of Health Information and Statistics of the Czech Republic, Prague, Czech Republic

⁶ Department of General Biology and Genetics, 3rd Faculty of Medicine, Charles University, Prague, Czech Republic

Czech Republic - Infobox

Population: 10 553 843
Area: 78,866 km²



13 regions and the capital Prague; 76 districts in total

Surveillance - Infobox

- 50+ years of history; the registry was founded in 1964.
- Population-wide coverage; reporting is compulsory.
- Data are stored in the State Institute of Health Information and Statistics (ÚZIS ČR)
- Multiple sources (geneticists, neonatologists, paediatricians, other specialists).
- Registry includes cases diagnosed in livebirths, stillbirths and prenatally diagnosed cases.
- Termination of pregnancy – legal (up to 24th GW)
- Main classification system: ICD-10 (national)
- Folic acid usage: unavailable

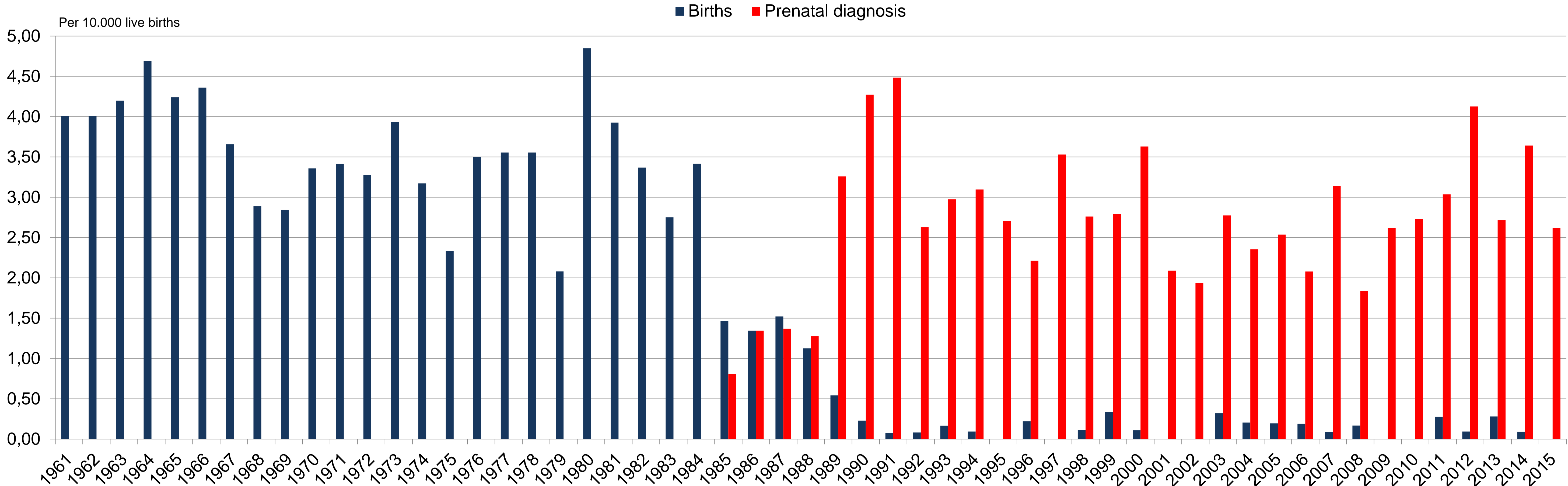
Anencephaly - Infobox

- Significant absence of brain, skull and scalp
- Fatal anomaly, Neural Tube Defect
- Etiology: Heterogeneous/Multifactorial
- ICD-10: Q00.0
- ICD-9: 740.0
- OMIM: 206500
- ORPHANET: 1048



Image source: WHO/CDC/CBDSR. Birth defects surveillance: Atlas of selected congenital anomalies. Geneva: World Health Organization, 2014.

Anencephaly – Czech Republic (1961-2015)



Anencephaly – Czech Republic (1996-2015)

