

Appendix: ICD codes used in the study

Pneumonia: ICD-10: J12–J18 (excl. previous pneumonia episodes ICD-8: 480–486, 073 and 471)

The cohort included 14% with bacterial pneumonia (*Streptococcus pneumoniae*, *Haemophilus influenzae*, *Mycoplasma pneumoniae*, *Chlamydophila pneumoniae*, and Enterobacteriaceae), 22% with viral pneumonia (including adenovirus, respiratory syncytial virus, parainfluenza virus, metapneumonvirus, and unspecified viruses), while the agent was unspecified for 64% of the children.

Covariates

Immune deficiencies: ICD-10: D80.0-D82.9

Congenital malformations: ICD-8: 74099-75999; ICD-10: Q00-99

Down syndrome: ICD-8: 75939, ICD-10: Q90

Chest imaging: x-ray or CT scan: UXRC00, UXCC75, UXCC77

Cancer: Lymphoid leukaemia (C91), myeloid leukaemia (C92), non-Hodgkin lymphoma (C82-85, and C90), Hodgkin lymphoma (C81), brain cancer (C71, C751-753, D330-332, D352-354, D430-432, and D443-445)