

**Supplement 2:** Diagnostic codes for syndromes and anomalies used to identify children with additional medical anomalies.

Patients were defined as having additional medical anomalies if there was a record of any of the following codes in any of the fourteen diagnosis code fields for any of that patient's HES episodes. i.e. the syndromic diagnosis mention is not necessarily associated with a record containing the patient's first cleft diagnosis/repair.

Code	Description
D821	<b>Di George's syndrome</b>
	<b>Congenital malformations of the nervous system (Q00-Q07)</b>
Q00	<b>Anencephaly and similar malformations</b>
Q01	<b>Encephalocele</b>
Q02	<b>Microcephaly</b>
Q03	<b>Congenital hydrocephalus</b>
Q04	<b>Other congenital malformations of brain</b>
Q05	<b>Spina bifida</b>
Q06	<b>Other congenital malformations of spinal cord</b>
Q07	<b>Other congenital malformations of nervous system</b>
Q16	<b>Congenital malformations of ear causing impairment of hearing</b>
Q18	<b>Other congenital malformations of face and neck</b>
	<b>Congenital malformations of the circulatory system (Q20-Q28)</b>
Q20	<b>Congenital malformations of cardiac chambers and connections</b>
Q21	<b>Congenital malformations of cardiac septa</b>
Q22	<b>Congenital malformations of pulmonary and tricuspid valves</b>
Q23	<b>Congenital malformations of aortic and mitral valves</b>
Q24	<b>Other congenital malformations of heart</b>
Q25	<b>Congenital malformations of great arteries</b>
Q26	<b>Congenital malformations of great veins</b>
Q27	<b>Other congenital malformations of peripheral vascular system</b>
Q28	<b>Other congenital malformations of circulatory system</b>
Q380	<b>Congenital malformations of lips, not elsewhere classified</b>
Q75	<b>Other congenital malformations of skull and face bones</b>
Q86	<b>Congenital malformation syndromes due to known exogenous causes, not elsewhere classified</b>
Q87	<b>Other specified congenital malformation syndromes affecting multiple systems</b>
	<b>Chromosomal abnormalities, not elsewhere classified (Q90-99)</b>
Q90	<b>Down's syndrome</b>
Q91	<b>Edwards' syndrome and Patau's syndrome</b>
Q92	<b>Other trisomies and partial trisomies of the autosomes, not elsewhere classified</b>
Q93	<b>Monosomies and deletions from the autosomes, not elsewhere classified</b>
Q95	<b>Balanced rearrangements and structural markers, not elsewhere classified</b>
Q96	<b>Turner's syndrome</b>
Q97	<b>Other sex chromosome abnormalities, female phenotype, not elsewhere classified</b>
Q98	<b>Other sex chromosome abnormalities, male phenotype, not elsewhere classified</b>
Q99	<b>Other chromosome abnormalities, not elsewhere classified</b>