

## 2.4 Invasive Group B Streptococcal Infections

### Summary

2013 total number of cases = 66

- 42 cases of early-onset disease (EOD)
- 24 cases of late-onset disease (LOD)

2013 EOD rate per 1,000 live births = 0.61

2013 LOD rate per 1,000 live births = 0.35

### Background

Invasive group B streptococcal (iGBS; *Streptococcus agalactiae*) infections in infants <90 days old or stillborn infants have been notifiable in Ireland via the Computerised Infectious Diseases Reporting (CIDR) system since January 2012.

In neonates two syndromes exist:

- Early-onset disease (EOD; age at onset/diagnosis <7 days old)
- Late-onset disease (LOD; age at onset/diagnosis 7-89 days old)

Both include sepsis, pneumonia and meningitis. Stillbirth associated with isolation/detection of *Streptococcus agalactiae* from the placenta or amniotic fluid is also notifiable.

### Notifications

In 2013, there were 66 iGBS cases, of which 42 and 24 cases represented EOD and LOD, respectively (Figure

1 and Table 1). The EOD and LOD rates were 0.61 and 0.35 per 1,000 live births, respectively (68,930 live births, CSO 2013 data obtained from [http://www.cso.ie/en/media/csoie/releasespublications/documents/vitalstats/2013/vstats\\_q42013.pdf](http://www.cso.ie/en/media/csoie/releasespublications/documents/vitalstats/2013/vstats_q42013.pdf))

Twenty cases presented with meningitis (meningitis was specifically mentioned as a case presentation for five cases and inferred from 15 cases where the specimen type tested included CSF).

Three of the reported cases in 2013 were associated with stillbirth.

The figures presented in this summary are based on data extracted from CIDR on 17<sup>th</sup> July 2014.

Table 1. Annual breakdown, including rates, of iGBS cases by disease syndrome

Disease syndrome	Year			
	2012		2013	
	n (%)	Rate*	n (%)	Rate*
EOD	58 (75%)	0.80	42 (64%)	0.61
LOD	19 (25%)	0.26	24 (36%)	0.35
<b>Total</b>	<b>77</b>	<b>1.07</b>	<b>66</b>	<b>0.96</b>

\* Incidence rate per 1,000 live births

[Live births in the Republic of Ireland (source: www.cso.ie): 2012, 72,225; 2013, 68,930]

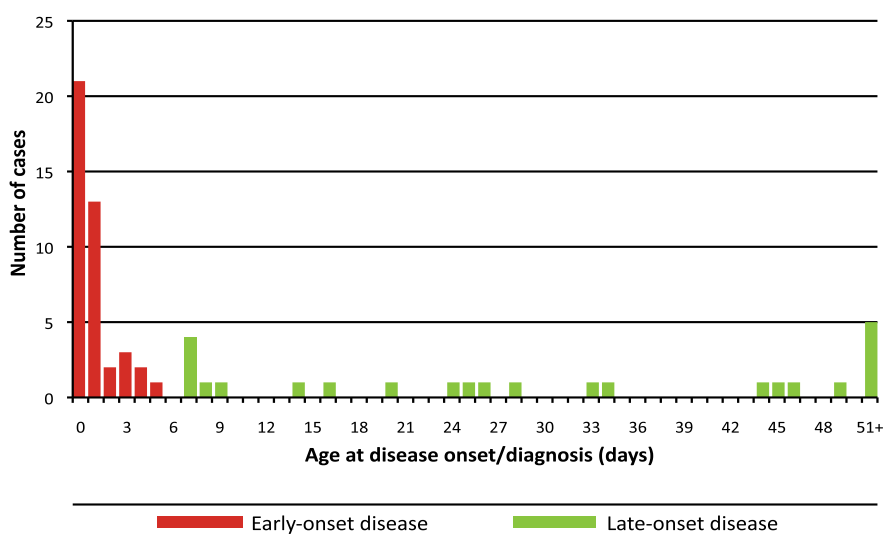


Figure 1. Distribution of cases of invasive Group B streptococcal infection by age (in days) at time of onset/diagnosis in 2013: early-onset disease (<7 days) and late-onset disease (7-89 days)