

## **SURVEILLANCE PERINATAL INDICATORS: QUARTERLY REPORT**

2009/10	2010/11	2011/12	2012/13		_ 2	2013/14	ļ			2	014/15	*	
YTD	YTD	YTD	YTD	Q1	Q2	Q3	Q4	YTD	Q1	Q2	Q3	Q4	YTD
44,376	43,360	43,595	43,906	10,844	11,370	10,416	10,518	43,148	10,888	11,443	10,627	10,087	43,045
20.9	21.4	21.2	20.4	21.6	20.7	22.0	20.5	21.2	21.3	21.1	21.5	22.3	21.5
30.2	30.7	30.9	31.2	30.9	32.0	31.3	31.9	31.5	32.7	31.7	32.2	33.5	32.5
6.0	5.5	5.7	6.1	5.9	5.4	5.6	6.1	5.7	5.7	6.2	6.3	5.8	6.0
60.3	60.1	60.1	60.5	60.9	60.2	59.9	58.8	60.0	60.6	61.0	59.7	59.8	60.3
20.9	21.1	21.2	20.1	20.1	20.5	20.8	21.2	20.7	20.6	19.8	21.1	20.5	20.5
12.9	13.3	12.9	13.0	13.1	13.9	13.7	13.9	13.7	13.1	13.0	12.9	14.0	13.2
33.9	29.6	26.8	24.8	23.2	24.5	25.0	23.8	24.1	23.2	23.9	24.6	24.0	23.5
4.1	5.1	5.7	5.2	6.5	4.7	6.7	5.7	5.9	5.7	7.1	8.5	7.4	7.2
45,131	44,049	44,340	44,633	11,043	11,585	10,574	10,690	43,892	11,080	11,650	10,819	10,255	43,804
10.5	10.3	9.8	9.4	10.9	10.4	10.0	10.6	10.5	12.4	11.1	10.2	11.6	11.3
7.9	8.2	8.1	7.9	9.3	9.1	9.0	9.5	9.2	11.1	9.8	9.1	9.6	9.9
0.6	0.6	0.6	0.5	0.5	0.5	0.4	0.2	0.4	0.5	0.4	0.6	0.2	0.4
2.1	1.5	1.1	1.0	1.0	0.8	0.7	0.8	0.8	0.8	0.9	0.6	1.9	1.0
2.4	2.3	2.4	2.4	2.4	2.4	2.5	2.4	2.4	2.4	2.4	2.6	2.1	2.4
7.3	7.1	7.2	7.6	8.0	7.4	7.5	8.0	7.7	8.2	7.4	7.6	8.3	7.9
79.0	79.6	80.1	80.2	80.3	81.2	80.0	80.7	80.6	80.3	81.3	80.6	81.0	80.8
11.4	11.0	10.3	9.7	9.3	9.0	10.0	9.0	9.3	9.1	9.0	9.1	8.6	9.0
0.2	0.03	0.04	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.01
43.8	38.0	34.2	35.7	40.1	32.9	34.5	32.7	35.0	36.5	31.2	34.3	32.2	33.5
33.5	29.8	25.5	25.6	28.1	17.2	21.2	17.7	21.0	29.1	22.5	26.4	23.6	25.4
1.8	1.6	1.0	1.4	2.1	1.7	2.3	0.6	1.7	1.3	2.1	1.5	0.7	1.4
8.2	7.7	6.8	6.7	8.0	7.2	6.9	7.4	7.4	6.8	5.6	6.0	4.3	5.7
40.5	34.4	23.1	24.6	26.5	28.0	27.5	24.7	26.7	30.6	28.2	27.2	32.0	29.4
13.0	9.8	6.3	6.1	8.1	8.0	8.7	7.1	8.0	11.5	10.4	11.2	12.6	11.4
1.3	0.9	0.6	0.3	0.6	1.0	1.2	1.4	1.1	0.5	0.9	0.7	1.2	0.8
2.1	2.1	1.9	2.4	2.9	2.7	2.4	1.4	2.4	3.0	2.6	2.0	3.0	2.6
72.4	71.5	72.7	72.3	73.8	73.9	71.5	72.8	73.0	73.3	74.3	71.9	70.6	72.8
8.5	10.5	11.4	11.2	11.6	10.2	11.3	11.6	11.2	10.8	13.0	13.4	15.6	13.1
2.4	2.7	3.0	2.8	3.0	2.0	2.5	3.2	2.7	2.7	3.2	2.4	1.9	2.6
	44,376 20.9 30.2 6.0 60.3 20.9 12.9 33.9 4.1 45,131 10.5 7.9 0.6 2.1 2.4 7.3 79.0 11.4 0.2 43.8 33.5 1.8 8.2 40.5 13.0 1.3 2.1 72.4 8.5	YTD         YTD           44,376         43,360           20.9         21.4           30.2         30.7           6.0         5.5           60.3         60.1           20.9         21.1           12.9         13.3           33.9         29.6           4.1         5.1           45,131         44,049           10.5         10.3           7.9         8.2           0.6         0.6           2.1         1.5           2.4         2.3           7.3         7.1           79.0         79.6           11.4         11.0           0.2         0.03           43.8         38.0           33.5         29.8           1.8         1.6           8.2         7.7           40.5         34.4           13.0         9.8           1.3         0.9           2.1         2.1           72.4         71.5           8.5         10.5	YTD         YTD           44,376         43,360         43,595           20.9         21.4         21.2           30.2         30.7         30.9           6.0         5.5         5.7           60.3         60.1         60.1           20.9         21.1         21.2           12.9         13.3         12.9           33.9         29.6         26.8           4.1         5.1         5.7           45,131         44,049         44,340           10.5         10.3         9.8           7.9         8.2         8.1           0.6         0.6         0.6           2.1         1.5         1.1           2.4         2.3         2.4           7.3         7.1         7.2           79.0         79.6         80.1           11.4         11.0         10.3           0.2         0.03         0.04           43.8         38.0         34.2           33.5         29.8         25.5           1.8         1.6         1.0           8.2         7.7         6.8           40.5         34	44,376         43,360         43,595         43,906           20.9         21.4         21.2         20.4           30.2         30.7         30.9         31.2           6.0         5.5         5.7         6.1           60.3         60.1         60.1         60.5           20.9         21.1         21.2         20.1           12.9         13.3         12.9         13.0           33.9         29.6         26.8         24.8           4.1         5.1         5.7         5.2           45,131         44,049         44,340         44,633           10.5         10.3         9.8         9.4           7.9         8.2         8.1         7.9           0.6         0.6         0.6         0.5           2.1         1.5         1.1         1.0           2.4         2.3         2.4         2.4           7.3         7.1         7.2         7.6           79.0         79.6         80.1         80.2           11.4         11.0         10.3         9.7           0.2         0.03         0.04         0.01           43.8 </td <td>YTD         YTD         YTD         Q1           44,376         43,360         43,595         43,906         10,844           20.9         21.4         21.2         20.4         21.6           30.2         30.7         30.9         31.2         30.9           6.0         5.5         5.7         6.1         5.9           60.3         60.1         60.1         60.5         60.9           20.9         21.1         21.2         20.1         20.1           12.9         13.3         12.9         13.0         13.1           33.9         29.6         26.8         24.8         23.2           4.1         5.1         5.7         5.2         6.5           45,131         44,049         44,340         44,633         11,043           10.5         10.3         9.8         9.4         10.9           7.9         8.2         8.1         7.9         9.3           0.6         0.6         0.6         0.5         0.5           2.1         1.5         1.1         1.0         1.0           2.4         2.3         2.4         2.4         2.4           <t< td=""><td>YTD         YTD         YTD         Q1         Q2           44,376         43,360         43,595         43,906         10,844         11,370           20.9         21.4         21.2         20.4         21.6         20.7           30.2         30.7         30.9         31.2         30.9         32.0           60.3         60.1         60.1         60.5         60.9         60.2           20.9         21.1         21.2         20.1         20.1         20.5           12.9         13.3         12.9         13.0         13.1         13.9           33.9         29.6         26.8         24.8         23.2         24.5           4.1         5.1         5.7         5.2         6.5         4.7           45,131         44,049         44,340         44,633         11,043         11,585           10.5         10.3         9.8         9.4         10.9         10.4           7.9         8.2         8.1         7.9         9.3         9.1           0.6         0.6         0.6         0.5         0.5         0.5           2.1         1.5         1.1         1.0         1</td><td>YTD         YTD         YTD         Q1         Q2         Q3           44,376         43,360         43,595         43,906         10,844         11,370         10,416           20.9         21.4         21.2         20.4         21.6         20.7         22.0           30.2         30.7         30.9         31.2         30.9         32.0         31.3           6.0         5.5         5.7         6.1         5.9         5.4         5.6           60.3         60.1         60.1         60.5         60.9         60.2         59.9           20.9         21.1         21.2         20.1         20.1         20.5         20.8           12.9         13.3         12.9         13.0         13.1         13.9         13.7           33.9         29.6         26.8         24.8         23.2         24.5         25.0           4.1         5.1         5.7         5.2         6.5         4.7         6.7           45,131         44,049         44,340         44,633         11,043         11,585         10,574           10.5         10.3         9.8         9.4         10.9         10.4         10.0</td></t<><td>YTD         YTD         YTD         Q1         Q2         Q3         Q4           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9           33.9         29.6         26.8         24.8         23.2         24.5         25.0         23.8           4.1         5.1         5.7         5.2         6.5         4.7         6.7         5.7           45,131         44,049         44,340         44,633         11,043<td>YTD         YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7           60.3         60.1         60.5         60.9         60.2         59.9         58.8         60.0           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7           11.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9         13.7           33.9         29.6         26.8         24.8         23.2         24.5         25.0         23.8         24.1           45,131         44,049         44,340         44.633</td><td>YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148         10,888           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5         32.7           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7         20.6           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.3         13.7         13.1           33.9         2.6         26.8         24.8         23.2         24.5         25.0<!--</td--><td>YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148         10,888         11,443           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9         13.7         13.9         13.7         13.1         13.0         13</td><td>YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3           44,376         43,360         43,595         43,906         10,844         11,370         10,616         10,518         43,148         10,888         11,443         10,627           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5         32.7         31.7         32.2           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2         6.3           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1           12.9         13.3         12.9         13.0         13.</td><td>YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3         Q4           44,376         43,360         43,595         43,966         10,844         11,370         10,416         10,518         43,148         10,688         11,443         10,627         10,067           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5         22.3           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7         32.2         33.5           6.0         5.5         5.7         6.1         6.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7         59.8           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1         20.5           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.7         13.1         13.0         12.7         13.0</td></td></td></td>	YTD         YTD         YTD         Q1           44,376         43,360         43,595         43,906         10,844           20.9         21.4         21.2         20.4         21.6           30.2         30.7         30.9         31.2         30.9           6.0         5.5         5.7         6.1         5.9           60.3         60.1         60.1         60.5         60.9           20.9         21.1         21.2         20.1         20.1           12.9         13.3         12.9         13.0         13.1           33.9         29.6         26.8         24.8         23.2           4.1         5.1         5.7         5.2         6.5           45,131         44,049         44,340         44,633         11,043           10.5         10.3         9.8         9.4         10.9           7.9         8.2         8.1         7.9         9.3           0.6         0.6         0.6         0.5         0.5           2.1         1.5         1.1         1.0         1.0           2.4         2.3         2.4         2.4         2.4 <t< td=""><td>YTD         YTD         YTD         Q1         Q2           44,376         43,360         43,595         43,906         10,844         11,370           20.9         21.4         21.2         20.4         21.6         20.7           30.2         30.7         30.9         31.2         30.9         32.0           60.3         60.1         60.1         60.5         60.9         60.2           20.9         21.1         21.2         20.1         20.1         20.5           12.9         13.3         12.9         13.0         13.1         13.9           33.9         29.6         26.8         24.8         23.2         24.5           4.1         5.1         5.7         5.2         6.5         4.7           45,131         44,049         44,340         44,633         11,043         11,585           10.5         10.3         9.8         9.4         10.9         10.4           7.9         8.2         8.1         7.9         9.3         9.1           0.6         0.6         0.6         0.5         0.5         0.5           2.1         1.5         1.1         1.0         1</td><td>YTD         YTD         YTD         Q1         Q2         Q3           44,376         43,360         43,595         43,906         10,844         11,370         10,416           20.9         21.4         21.2         20.4         21.6         20.7         22.0           30.2         30.7         30.9         31.2         30.9         32.0         31.3           6.0         5.5         5.7         6.1         5.9         5.4         5.6           60.3         60.1         60.1         60.5         60.9         60.2         59.9           20.9         21.1         21.2         20.1         20.1         20.5         20.8           12.9         13.3         12.9         13.0         13.1         13.9         13.7           33.9         29.6         26.8         24.8         23.2         24.5         25.0           4.1         5.1         5.7         5.2         6.5         4.7         6.7           45,131         44,049         44,340         44,633         11,043         11,585         10,574           10.5         10.3         9.8         9.4         10.9         10.4         10.0</td></t<> <td>YTD         YTD         YTD         Q1         Q2         Q3         Q4           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9           33.9         29.6         26.8         24.8         23.2         24.5         25.0         23.8           4.1         5.1         5.7         5.2         6.5         4.7         6.7         5.7           45,131         44,049         44,340         44,633         11,043<td>YTD         YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7           60.3         60.1         60.5         60.9         60.2         59.9         58.8         60.0           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7           11.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9         13.7           33.9         29.6         26.8         24.8         23.2         24.5         25.0         23.8         24.1           45,131         44,049         44,340         44.633</td><td>YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148         10,888           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5         32.7           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7         20.6           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.3         13.7         13.1           33.9         2.6         26.8         24.8         23.2         24.5         25.0<!--</td--><td>YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148         10,888         11,443           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9         13.7         13.9         13.7         13.1         13.0         13</td><td>YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3           44,376         43,360         43,595         43,906         10,844         11,370         10,616         10,518         43,148         10,888         11,443         10,627           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5         32.7         31.7         32.2           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2         6.3           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1           12.9         13.3         12.9         13.0         13.</td><td>YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3         Q4           44,376         43,360         43,595         43,966         10,844         11,370         10,416         10,518         43,148         10,688         11,443         10,627         10,067           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5         22.3           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7         32.2         33.5           6.0         5.5         5.7         6.1         6.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7         59.8           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1         20.5           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.7         13.1         13.0         12.7         13.0</td></td></td>	YTD         YTD         YTD         Q1         Q2           44,376         43,360         43,595         43,906         10,844         11,370           20.9         21.4         21.2         20.4         21.6         20.7           30.2         30.7         30.9         31.2         30.9         32.0           60.3         60.1         60.1         60.5         60.9         60.2           20.9         21.1         21.2         20.1         20.1         20.5           12.9         13.3         12.9         13.0         13.1         13.9           33.9         29.6         26.8         24.8         23.2         24.5           4.1         5.1         5.7         5.2         6.5         4.7           45,131         44,049         44,340         44,633         11,043         11,585           10.5         10.3         9.8         9.4         10.9         10.4           7.9         8.2         8.1         7.9         9.3         9.1           0.6         0.6         0.6         0.5         0.5         0.5           2.1         1.5         1.1         1.0         1	YTD         YTD         YTD         Q1         Q2         Q3           44,376         43,360         43,595         43,906         10,844         11,370         10,416           20.9         21.4         21.2         20.4         21.6         20.7         22.0           30.2         30.7         30.9         31.2         30.9         32.0         31.3           6.0         5.5         5.7         6.1         5.9         5.4         5.6           60.3         60.1         60.1         60.5         60.9         60.2         59.9           20.9         21.1         21.2         20.1         20.1         20.5         20.8           12.9         13.3         12.9         13.0         13.1         13.9         13.7           33.9         29.6         26.8         24.8         23.2         24.5         25.0           4.1         5.1         5.7         5.2         6.5         4.7         6.7           45,131         44,049         44,340         44,633         11,043         11,585         10,574           10.5         10.3         9.8         9.4         10.9         10.4         10.0	YTD         YTD         YTD         Q1         Q2         Q3         Q4           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9           33.9         29.6         26.8         24.8         23.2         24.5         25.0         23.8           4.1         5.1         5.7         5.2         6.5         4.7         6.7         5.7           45,131         44,049         44,340         44,633         11,043 <td>YTD         YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7           60.3         60.1         60.5         60.9         60.2         59.9         58.8         60.0           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7           11.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9         13.7           33.9         29.6         26.8         24.8         23.2         24.5         25.0         23.8         24.1           45,131         44,049         44,340         44.633</td> <td>YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148         10,888           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5         32.7           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7         20.6           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.3         13.7         13.1           33.9         2.6         26.8         24.8         23.2         24.5         25.0<!--</td--><td>YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148         10,888         11,443           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9         13.7         13.9         13.7         13.1         13.0         13</td><td>YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3           44,376         43,360         43,595         43,906         10,844         11,370         10,616         10,518         43,148         10,888         11,443         10,627           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5         32.7         31.7         32.2           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2         6.3           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1           12.9         13.3         12.9         13.0         13.</td><td>YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3         Q4           44,376         43,360         43,595         43,966         10,844         11,370         10,416         10,518         43,148         10,688         11,443         10,627         10,067           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5         22.3           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7         32.2         33.5           6.0         5.5         5.7         6.1         6.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7         59.8           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1         20.5           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.7         13.1         13.0         12.7         13.0</td></td>	YTD         YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7           60.3         60.1         60.5         60.9         60.2         59.9         58.8         60.0           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7           11.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9         13.7           33.9         29.6         26.8         24.8         23.2         24.5         25.0         23.8         24.1           45,131         44,049         44,340         44.633	YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148         10,888           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5         32.7           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7         20.6           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.3         13.7         13.1           33.9         2.6         26.8         24.8         23.2         24.5         25.0 </td <td>YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148         10,888         11,443           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9         13.7         13.9         13.7         13.1         13.0         13</td> <td>YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3           44,376         43,360         43,595         43,906         10,844         11,370         10,616         10,518         43,148         10,888         11,443         10,627           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5         32.7         31.7         32.2           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2         6.3           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1           12.9         13.3         12.9         13.0         13.</td> <td>YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3         Q4           44,376         43,360         43,595         43,966         10,844         11,370         10,416         10,518         43,148         10,688         11,443         10,627         10,067           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5         22.3           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7         32.2         33.5           6.0         5.5         5.7         6.1         6.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7         59.8           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1         20.5           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.7         13.1         13.0         12.7         13.0</td>	YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2           44,376         43,360         43,595         43,906         10,844         11,370         10,416         10,518         43,148         10,888         11,443           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.9         13.7         13.9         13.7         13.1         13.0         13	YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3           44,376         43,360         43,595         43,906         10,844         11,370         10,616         10,518         43,148         10,888         11,443         10,627           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.9         31.5         32.7         31.7         32.2           6.0         5.5         5.7         6.1         5.9         5.4         5.6         6.1         5.7         5.7         6.2         6.3           60.3         60.1         60.1         60.5         60.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7           20.9         21.1         21.2         20.1         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1           12.9         13.3         12.9         13.0         13.	YTD         YTD         YTD         Q1         Q2         Q3         Q4         YTD         Q1         Q2         Q3         Q4           44,376         43,360         43,595         43,966         10,844         11,370         10,416         10,518         43,148         10,688         11,443         10,627         10,067           20.9         21.4         21.2         20.4         21.6         20.7         22.0         20.5         21.2         21.3         21.1         21.5         22.3           30.2         30.7         30.9         31.2         30.9         32.0         31.3         31.5         32.7         31.7         32.2         33.5           6.0         5.5         5.7         6.1         6.9         60.2         59.9         58.8         60.0         60.6         61.0         59.7         59.8           20.9         21.1         21.2         20.1         20.5         20.8         21.2         20.7         20.6         19.8         21.1         20.5           12.9         13.3         12.9         13.0         13.1         13.9         13.7         13.7         13.1         13.0         12.7         13.0

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Data Source: BC Perinatal Data Registry Report Data Generated: August 6, 2015

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<sup>\*</sup>Data for 2014/15 are preliminary.

<sup>§</sup>Maternal transfers to higher level of care - added Surrey Memorial Hospital to 2nd Tier Hospitals effective April 1, 2013 discharges.

 $<sup>\</sup>P \text{Gestational Age Calculation - revised effective April 1, 2013}.$ 

Please see the Summary of Changes on Page 2 for changes to the indicators since the last report.

Please see Technical Notes on Page 3 for methodology, limitations, and descriptions of indicators.



## **Surveillance Perinatal Indicators: Quarterly Report 2014/15**

# **Summary of Changes**

August 6, 2015

The PSBC Surveillance Team reviewed the Quarterly Report indicators that were introduced in the 2011/12 fiscal year. Some changes and/or modifications have been made to update the indicators for future years, beginning with the 2014/15 fiscal year.

The changes/modifications are as follows:

### 1. Deliveries (Mothers)

Indicators removed due to low incidences

- Postpartum Hemorrhage + Transfusion (rate per 1,000 deliveries)
- Postpartum Hemorrhage + Hysterectomy (rate per 1,000 deliveries)
- Eclampsia (rate per 1,000 deliveries)
- Puerperal Sepsis (rate per 1,000 deliveries)

#### Indicators added:

- Pre-Pregnancy Body Mass Index (BMI) Category(rate per 100 mothers with known BMI)
- Pre-Pregnancy Body Mass Index (BMI) Unknown (rate per 100 mothers)

#### 2. Births (Babies)

Indicator categories modified:

Live births by Gestational Age (Weeks)

From: <30, 30-31, 32-33, 34-36, >=37, Unknown

To: <34, 34-36. 37-40, 41+, Unknown

#### Indicator added:

• Term infants receiving exclusive breast milk during birth admission (rate per 100 live term births)

Please feel free to contact the Surveillance Team at Perinatal Services BC if you have any questions or comments.

## **Technical Notes**

The Surveillance Perinatal Indicators: Quarterly Report includes perinatal data for BC residents for six fiscal years (April 1 to March 31): 2009/10 to 2014/15. The focus of this report is to provide a summary of selected indicators on maternal and neonatal morbidity for British Columbia overall. The appendix lists the description of indicators and calculation methods used in this report.

## **List of Tables**

Table 1. Definitions

Table 2. Methods of Calculation for Selected Indicators

Table 3. Final Gestational Age

Table 4. Codes for Selected Indicators

## **Quarters and Date Range**

Q1: April 1 to June 30

Q2: July 1 to September 30 Q3: October 1 to December 31 Q4: January 1 to March 31

### **Methodology and Limitations**

#### **Inclusions**

- Data on all births (singletons, twins, and multiples) for BC residents only.
- Linked mothers and newborns for each fiscal year (<0.02% of records are not linked).</li>

#### **Exclusions**

Deliveries and births of BC residents occurring outside of BC.

#### Notes

- Mother-newborn assigned fiscal year is based on maternal discharge date.
- Resident level of geography is based on the postal code recorded during the delivery admission.
- The reader should use caution when interpreting rates of neonatal and maternal adverse outcomes because these rates are based on a very small number of events.
- 2014/15 is provisional data and subject to revision.
- Gestational Age calculation: a change has been made to reflect current adopted SOGC calculation (see Table 3).
- Maternal Transfer to Higher Level of Care: Surrey Memorial Hospital has been added to the 2nd Tier hospital group, effective April 1, 2013 discharges.

# **Appendix**

**Table 1. Definitions** 

Table 1. Definitions	Description		
Indicator	Description		
Labour Induction	Instrumental or pharmacological assistance to initiate labour, prior to the onset of the first stage of labour.		
Cesarean Delivery	A delivery involving the surgical incision of the abdomen and uterine walls.		
Last Menstrual Period (LMP)	The first day of a woman's last menses before conception. Used to calculate gestational age and duration of pregnancy.		
Body Mass Index (BMI)	Ratio of weight to height, as measured pre-pregnancy or up to 12 weeks gestation. Formula: BMI = pre-pregnancy weight (kg)/height (m) <sup>2</sup> .		
Body Mass Index (BMI) Group	Pre-pregnancy BMI categorized according to the Canadian Guidelines for Body Weight Classification.  Underweight = < 18.50 Normal Weight = 18.50 - 24.99  Overweight = 25.00 - 29.99  Obese = >= 30.00  Unknown = pre-pregnancy weight and/or height are missing		
Mother Transferred to Higher Level of Care Following Delivery	Maternal transfer to a hospital with higher level of care following delivery.  Transfers from 1st tier to 2nd, or 2nd to 3rd, or 1st to 3rd are included.  Criteria for higher level of care:  3rd tier:  BC Women's Hospital & Health Centre  Royal Columbian Hospital  Victoria General Hospital  St Paul's Hospital  2nd tier:  Kelowna General Hospital  Royal Inland Hospital  University Hospital of Northern BC  Nanaimo Regional General Hospital  Surrey Memorial Hospital (added April 1, 2013)  1st tier:  Hospitals not identified as 3rd or 2nd tier.  Excludes: Transfers to lower level of care facilities (3rd to 2nd or 2nd to 1st).		
Stillbirth	The complete expulsion or extraction from the maternal body after at least 20 weeks gestation, or after attaining a weight of at least 500 grams, of a fetus, in which at birth there is no breathing, beating heart, pulsation of the umbilical cord, or unmistaken movement of voluntary muscle (ref: BC Vital Statistics).		
Stillbirth Type	Stillbirth can occur:  Antepartum: stillbirth or intrauterine death reported prior to onset of first stage of labour.  Intrapartum: stillbirth or intrauterine death reported after onset of first stage of labour.  Unknown: stillbirth or intrauterine death reported, but unknown if prior to or after onset of first stage of labour.		
Gestational Age	The number of completed weeks a fetus has developed since the beginning of the pregnancy.		
Live Births by Gestational Age	Live born categorized into gestational age groups.		
Term Infants Receiving Exclusive Breast Milk	Term Infants (≥37 completed weeks gestation) receiving exclusive breast milk (including expressed breast milk) during birth admission. No food or liquid (not even water) was given. Undiluted drops of syrup consisting of vitamins, mineral supplements or medicine may have been given to the baby.		

Indicator	Description			
Newborn Transferred to Higher Level of Care	Live born transferred to a hospital with higher level of care. Transfers from nursery to a Level II NICU and transfers from Level II to Level III NICU are included. Criteria for higher level of care: NICU 2 & 3: BC Women's Hospital & Health Centre Royal Columbian Hospital Victoria General Hospital Surrey Memorial Hospital NICU 2: St. Paul's Hospital Burnaby General Hospital The Richmond Hospital Lions Gate Hospital Abbotsford Regional Hospital Kelowna General Hospital Royal Inland Hospital University Hospital of Northern BC Nanaimo Regional General Hospital Excludes: Transfers to hospital not identified as Level 2 or Level 3.			
Neonatal Deaths	In-hospital baby deaths. Excludes: Transfers out-of-province and transfers out-of-country.			
Term Infants (A birth >= 37 comp	pleted weeks gestation.)			
NICU Admissions	2009/10: Term infants admitted to a Level 2 and/or 3 NICU (based on bed that the infant occupies). 2010/11 forward: Term infants receiving Level 2 and/or 3 care, based on the Neonatal Daily Classification. The NICU level of care provided must be determined by the care providers and documented on the infant's health record.			
NICU Admissions >2 days	Term infants receiving Level 2 and/or 3 care with a length of stay greater than 2 days.			
NICU Admissions with Sepsis	Term infants receiving Level 2 and/or 3 care with a diagnosis of sepsis. See Table 4 for list of codes.			
NICU Admissions with Ventilatory Support	Term infants receiving to Level 2 and/or 3 care with ventilatory support. See Table 4 for list of procedures that indicate ventilatory support.			
Preterm Infants (A birth before 3	7 completed weeks gestation.)			
NICU Admissions	2009/10: Preterm infants admitted to Level 2 and/or 3 NICU (based on bed that the infant occupies). 2010/11 forward: Preterm infants receiving Level 2 and/or 3 care, based on the Neonatal Daily Classification. The NICU level of care provided must be determined by the care providers and documented on the infant's health record.			
NICU Admissions >2 days	Preterm infants receiving Level 2 and/or 3 care with a length of stay greater than 2 days.			
NICU Admissions with Sepsis	Preterm infants receiving Level 2 and/or 3 care with a diagnosis of sepsis. See Table 4 for list of codes.			
NICU Admissions with Ventilatory Support	Preterm infants receiving Level 2 and/or 3 care with ventilatory support. See Table 4 for list of procedures that indicate ventilatory support.			

**Table 2. Methods of Calculation for Selected Indicators** 

Indicator	Method			
Labour Induction	Number of mothers with labour induction x 100 Total deliveries			
Cesarean Delivery	Number of mothers with cesarean delivery x 100 Total deliveries			
Pre-Pregnancy Body Mass Index (BMI)	<u>Weight (kg)</u> height (m) <sup>2</sup>			
Body Mass Index (BMI) Group	Number of mothers by pre-pregnancy BMI group x 100 Total deliveries with known pre-pregnancy BMI			
Body Mass Index (BMI) Unknown	Number of mothers with unknown BMI x 100 Total deliveries			
Mothers Transferred to Higher Level of Care Following Delivery	Number of mothers transferred to higher level of care following delivery x 1,000 Total deliveries			
Stillbirth Rate	Number of stillbirths x 1,000 Total births			
Stillbirth Rate by Type	Number of stillbirths by type x 1,000  Total number of births			
Live Births by Gestational Age	Number of live births by gestational age group x 1,000 Total live births			
Term Infants Receiving Exclusive Breast Milk	Number of live term newborns with exclusive breast milk x 100  Total term live births			
Newborn Transferred to Higher Level of Care	Number of live newborns transferred to higher level of care hospital x 1,000  Total live births			
Neonatal Deaths	Number of live newborn deaths + baby transfer deaths x 1,000  Total live births			
Term Infants (A birth >= 37 (	completed weeks gestation.)			
NICU Admissions	Number of term births with NICU admission x 1,000  Total live births			
NICU Admissions >2 days	Number of term births with NICU admission >2 days x 1,000 Total live births			
NICU Admissions with Sepsis	Number of term births with NICU admission with sepsis x 1,000  Total live births			
NICU Admissions with Ventilatory Support	Number of term births with NICU admission with ventilatory support x 1,000  Total live births			
Preterm Infants (A birth before 37 completed weeks gestation.)				
NICU Admissions >2 days	Number of preterm births with NICU admission >2 days x 1,000 Total live births			
NICU Admissions with Sepsis	Number of preterm births with NICU admission with sepsis x 1,000 Total live births			
NICU Admissions with Ventilatory Support	Number of preterm births with NICU admission with ventilatory support x 1,000  Total live births			

## Table 3. Final Gestational Age (GA)

Gestational age at delivery is calculated using an algorithm consistent with that recommended by the Society of Obstetricians and Gynaecologists of Canada (SOGC).

Hierarchy used for calculating the final gestational age is determined by the following preferential order:

Use the GA calculated from the last menstrual period (LMP)

Exception: Use the GA based on the first ultrasound if:

GA based on menstrual dating differs from GA at first ultrasound by ≥2 weeks

GA based on menstrual dating differs from GA at first ultrasound (done at <14 weeks gestation) by 1 week

Use GA from first ultrasound if GA from LMP is not available.

Use newborn clinical estimate from physical examination if GA from LMP and GA from first ultrasound are unavailable.

Use newborn clinical estimate from physical examination if GA from LMP is ≥ 3 weeks different and no GA at first ultrasound is unavailable.

Use obstetrical clinical estimate of gestational age if GA from LMP, GA at first ultrasound and GA from newborn clinical estimate are not available.

**Table 4. Codes for Selected Indicators** 

Indicator	ICD-10 and/or CCI Codes			
NICU Admissions with Sepsis	P36 Bacterial sepsis of newborn Includes: congenital septicaemia P36.0 Sepsis of newborn due to streptococcus, group B P36.1 Sepsis of newborn due to other and unspecified streptococci P36.2 Sepsis of newborn due to Staphylococcus aureus P36.3 Sepsis of newborn due to other and unspecified staphylococci P36.4 Sepsis of newborn due to Escherichia coli P36.5 Sepsis of newborn due to anaerobes P36.8 Other bacterial sepsis of newborn P36.9 Bacterial sepsis of newborn, unspecified  Includes: Diagnosis codes with a prefix of (Q) – query diagnoses			
NICU Admissions with Ventilatory Support	And nicu_ii>0 and/or nicu_iii>0  1.GZ.31.^^ Ventilation, respiratory system NEC positive pressure (e.g. CPAP, BIPAP) 1.GZ.31.CB.ND Non-invasive approach positive pressure (e.g., CPAP, BIPAP) 1.GZ.31.CA-ND Invasive per orifice approach by endotracheal intubation positive pressure (e.g., CPAP, BIPAP) 1.GZ.31.CR-ND Invasive per orifice with incision approach for intubation through tracheostomy  AND/OR  BCPDR Ventilator Days field ≥1: Total number of days recorded in field.  And nicu_ii>0 and/or nicu_iii>0			