

## 2014 ACNM Benchmarking Mean Median Mode RESULTS

### BY PRACTICE VOLUME

Births per year: Low volume <50, Low Moderate volume >50-<199, High Moderate>200-<499 High volume >500+

Benchmarking is not research. Rather, the ACNM Benchmarking Project functions to preserve the hallmarks of the profession by assisting members to compare their practice outcomes with midwifery practices of similar delivery volume. Participating practices receive an individualized portal report which shows the practice where how their quality measure or outcome compares with similar midwifery practices.

*A couple of facts:*

- 329 practices entered the benchmarking portal.
- 296 practices entered complete data including all 6 core variables and are included in this analysis.

*How did practices contribute their data to the project?*

217 (73%) practices contributed through the ACNM data portal

30 (10%) practices contributed using Birth Tracks (birthtracks.com)

26 (8%) practices contributed using the American Association of Birth Centers Perinatal Data Registry ([PDR@birthcenters.org](mailto:PDR@birthcenters.org))

23 (7%) practices contributed using the Midwives Alliance of North America “MANA STATS” (<http://mana.org/research/mana-stats>)

### **How do I know which indicator to select for improvement in my practice?**

When you look at **your portal report** (emailed June 26 2015), you should be falling within the appropriate range of your colleagues. For example, if you are above the 75% range of your comparison group in episiotomy- there is a practice variance that suggests need for improvement. This suggests overuse of the procedure when you compare yourself to midwifery practices attending a similar number of births/year. Similarly, if you are in the lowest 25% of your cohort in spontaneous vaginal birth or breastfeeding, the data suggests that you can improve your performance.

The table demonstrates the average, minimum and maximal percentage within each volume category. Additionally- you can see the value that achieves “benchmark rates” >75% performance within the cohort within certain categories (e.g. spontaneous vaginal birth or breastfeeding), or <25% of the cohort within other variables (e.g. episiotomy, total induction, NICU admissions, cesarean section).

The ACNM Division of Standards of Practice Quality Section functions to build quality improvement capacity of ACNM member practices. Stay tuned for webinars, quickening articles, and presentations at regional and national meetings. For more info, email [dianamidwife@yahoo.com](mailto:dianamidwife@yahoo.com).

Mean Median Mode Report

VARIABLE	LOW VOLUME <sup>1</sup>		LOW/MODERATE VOLUME <sup>2</sup>		HIGH/MODERATE VOLUME <sup>3</sup>		HIGH VOLUME <sup>4</sup>	
<b>TOTAL NUMBER IN GROUP</b>								
<b>Birth Outcomes</b>								
Q1: Total number of vaginal births including VBACs, forceps, and vacuum assisted and transfers to MD care for vaginal birth.	Maximum	100.00 %	Maximum	100%	Maximum	96.0%	Maximum	95.3%
	Minimum	55.56%	Minimum	66.3%	Minimum	38.0%	Minimum	63.9%
	Average	93.79%	Average	89.3%	Average	84.6%	Average	83.1%
	Median	95.65%	Median	90.9%	Median	87.4%	Median	85.6%
	25th %	91.30%	25th Percentile	85.5%	25th Percentile	81.2%	25th Percentile	77.7%
	50th %	95.65%	50th Percentile	90.9%	50th Percentile	87.4%	50th Percentile	85.6%
	75th %	100.00 %	75th Percentile	94.9%	75th Percentile	90.8%	75th Percentile	89.5%
Q2: Spontaneous Vaginal Birth rate	Maximum	100.00 %	Maximum	100%	Maximum	2.75?	Maximum	94.2%
	Minimum	70.00%	Minimum	32.7%	Minimum	36.0%	Minimum	39.9%
	Average	93.73%	Average	85.2%	Average	83.2%	Average	78.1%
	Median	95.24%	Median	87.4%	Median	84.3%	Median	81.7%
	25th %	90.39%	25th Percentile	80.5%	25th Percentile	75.6%	25th Percentile	72.4%
	50th %	95.24%	50th Percentile	87.4%	50th Percentile	84.3%	50th Percentile	81.7%
	75th %	100.00 %	75th Percentile	94.2%	75th Percentile	88.7%	75th Percentile	85.9%

<sup>1</sup> <50 BIRTHS/YEAR

<sup>2</sup> >50-<199 BIRTHS/YEAR

<sup>3</sup> 200-<499

<sup>4</sup> 500+



Mean Median Mode Report

VARIABLE	LOW VOLUME <sup>5</sup>		LOW/MODERATE VOLUME <sup>6</sup>		HIGH/MODERATE VOLUME <sup>7</sup>		HIGH VOLUME <sup>8</sup>	
<b>TOTAL NUMBER IN GROUP</b>								
<b>PERINEAL OUTCOMES</b>								
Q11: Number of women with an intact perineum (perineum is intact or has only small laceration(s) not requiring repair after birth).	Maximum	100.00%	Maximum	100%	Maximum	90.9%	Maximum	96.4%
	Minimum	17.65%	Minimum	5.6%	Minimum	15.8%	Minimum	0.0%
	Average	60.99%	Average	53.5%	Average	46.4%	Average	44.8%
	Median	60.95%	Median	49.2%	Median	44.1%	Median	42.4%
	25th %	44.90%	25th Percentile	39.1%	25th Percentile	36.0%	25th Percentile	35.9%
	50th %	60.95%	50th Percentile	49.2%	50th Percentile	44.1%	50th Percentile	42.4%
	75th %	72.18%	75th Percentile	68.3%	75th Percentile	55.5%	75th Percentile	53.3%
Q12: Number of episiotomies	Maximum	*%	Maximum	26.5%	Maximum	26.2%	Maximum	15.1%
	Minimum	0.00%	Minimum	0.0%	Minimum	0.0%	Minimum	0.0%
	Average	23.57%	Average	2.1%	Average	3.0%	Average	3.1%
	Median	0.00%	Median	1.5%	Median	2.0%	Median	2.7%
	25th %	0.00%	25th Percentile	0.0%	25th Percentile	1.0%	25th Percentile	1.5%
	50th %	0.00%	50th Percentile	1.5%	50th Percentile	2.0%	50th Percentile	2.7%
	75th %	2.40%	75th Percentile	2.8%	75th Percentile	4.3%	75th Percentile	3.7%

<sup>5</sup> <50 BIRTHS/YEAR

<sup>6</sup> >50-<199 BIRTHS/YEAR

<sup>7</sup> 200-<499

<sup>8</sup> 500+

Mean Median Mode Report

VARIABLE	LOW VOLUME <sup>9</sup>		LOW/MODERATE VOLUME <sup>10</sup>		HIGH/MODERATE VOLUME <sup>11</sup>		HIGH VOLUME <sup>12</sup>	
Q13: Number of women who experienced a 3rd or 4th degree laceration	Maximum	20.00%	Maximum	6.3%	Maximum	8.3%	Maximum	4.8%
	Minimum	0.00%	Minimum	0.0%	Minimum	0.0%	Minimum	0.2%
	Average	1.26%	Average	1.2%	Average	1.9%	Average	1.9%
	Median	0.00%	Median	6.9%	Median	1.4%	Median	1.7%
	25th %	0.00%	25th Percentile	0.0%	25th Percentile	0.9%	25th Percentile	1.0%
	50th %	0.00%	50th Percentile	6.9%	50th Percentile	1.4%	50th Percentile	1.7%
	75th %	0.00%	75th Percentile	1.8%	75th Percentile	2.2%	75th Percentile	2.7%

<sup>9</sup> <50 BIRTHS/YEAR

<sup>10</sup> >50-<199 BIRTHS/YEAR

<sup>11</sup> 200-<499

<sup>12</sup> 500+

Mean Median Mode Report

INFANTS																																		
VARIABLE	LOW VOLUME <sup>13</sup>		LOW/MODERATE VOLUME <sup>14</sup>		HIGH/MODERATE VOLUME <sup>15</sup>		HIGH VOLUME <sup>16</sup>																											
TOTAL NUMBER IN GROUP																																		
Q14: Number of infants from a singleton birth born at less than 37 weeks gestation.	Maximum	22.22%	Maximum	9.4%	<table border="1"> <tr><td>Maximum</td><td>30.8%</td></tr> <tr><td>Minimum</td><td>0.0%</td></tr> <tr><td>Average</td><td>4.1%</td></tr> <tr><td>Median</td><td>3.3%</td></tr> <tr><td>25th Percentile</td><td>2.2%</td></tr> <tr><td>50th Percentile</td><td>3.3%</td></tr> <tr><td>75th Percentile</td><td>4.9%</td></tr> </table>	Maximum	30.8%	Minimum	0.0%	Average	4.1%	Median	3.3%	25th Percentile	2.2%	50th Percentile	3.3%	75th Percentile	4.9%	<table border="1"> <tr><td>Maximum</td><td>14.6%</td></tr> <tr><td>Minimum</td><td>0.0%</td></tr> <tr><td>Average</td><td>4.5%</td></tr> <tr><td>Median</td><td>3.8%</td></tr> <tr><td>25th Percentile</td><td>3.1%</td></tr> <tr><td>50th Percentile</td><td>3.8%</td></tr> <tr><td>75th Percentile</td><td>5.1%</td></tr> </table>	Maximum	14.6%	Minimum	0.0%	Average	4.5%	Median	3.8%	25th Percentile	3.1%	50th Percentile	3.8%	75th Percentile	5.1%
	Maximum	30.8%																																
	Minimum	0.0%																																
	Average	4.1%																																
	Median	3.3%																																
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Average	4.5%																																	
Median	3.8%																																	
25th Percentile	3.1%																																	
50th Percentile	3.8%																																	
75th Percentile	5.1%																																	
Minimum	0.00%	Minimum	0.0%																															
Average	1.68%	Average	2.5%																															
Median	0.00%	Median	1.8%																															
25th %	0.00%	25th Percentile	7.7%																															
50th %	0.00%	50th Percentile	1.8%																															
75th %	2.81%	75th Percentile	3.3%																															
Q15: Number of infants from a singleton birth born weighing less than 2500 grams.	Maximum	16.67%	Maximum	58.7%	<table border="1"> <tr><td>Maximum</td><td>61.0%</td></tr> <tr><td>Minimum</td><td>0.0%</td></tr> <tr><td>Average</td><td>4.8%</td></tr> <tr><td>Median</td><td>2.4%</td></tr> <tr><td>25th Percentile</td><td>1.5%</td></tr> <tr><td>50th Percentile</td><td>2.4%</td></tr> <tr><td>75th Percentile</td><td>4.2%</td></tr> </table>	Maximum	61.0%	Minimum	0.0%	Average	4.8%	Median	2.4%	25th Percentile	1.5%	50th Percentile	2.4%	75th Percentile	4.2%	<table border="1"> <tr><td>Maximum</td><td>61.4%</td></tr> <tr><td>Minimum</td><td>0.0%</td></tr> <tr><td>Average</td><td>5.2%</td></tr> <tr><td>Median</td><td>3.0%</td></tr> <tr><td>25th Percentile</td><td>1.9%</td></tr> <tr><td>50th Percentile</td><td>3.0%</td></tr> <tr><td>75th Percentile</td><td>4.7%</td></tr> </table>	Maximum	61.4%	Minimum	0.0%	Average	5.2%	Median	3.0%	25th Percentile	1.9%	50th Percentile	3.0%	75th Percentile	4.7%
	Maximum	61.0%																																
	Minimum	0.0%																																
	Average	4.8%																																
	Median	2.4%																																
	25th Percentile	1.5%																																
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25th Percentile	1.9%																																	
50th Percentile	3.0%																																	
75th Percentile	4.7%																																	
Minimum	0.00%	Minimum	0.0%																															
Average	1.50%	Average	3.6%																															
Median	0.00%	Median	1.8%																															
25th %	0.00%	25th Percentile	0.0%																															
50th %	0.00%	50th Percentile	1.8%																															
75th %	0.58%	75th Percentile	3.2%																															

<sup>13</sup> <50 BIRTHS/YEAR

<sup>14</sup> >50-<199 BIRTHS/YEAR

<sup>15</sup> 200-<499

<sup>16</sup> 500+



Mean Median Mode Report

VARIABLE	LOW VOLUME <sup>21</sup>		LOW/MODERATE VOLUME <sup>22</sup>		HIGH/MODERATE VOLUME <sup>23</sup>		HIGH VOLUME <sup>24</sup>	
	Q20: Total number of women breastfeeding at their 6 week postpartum visit.	Maximum	100.00 %	Maximum	100%	Maximum	100%	Maximum
Minimum		0.03%	Minimum	50.0%	Minimum	0.7%	Minimum	43.0%
Average		49.50%	Average	62.6%	Average	85.2%	Average	79.7%
Median		42.68%	Median	82.2%	Median	93.8%	Median	81.1%
25th %		0.26%	25th Percentile	54.0%	25th Percentile	80.1%	25th Percentile	71.1%
50th %		42.68%	50th Percentile	82.2%	50th Percentile	93.8%	50th Percentile	81.1%
75th %		100.00 %	75th Percentile	98.2%	75th Percentile	97.0%	75th Percentile	93.5%

<sup>21</sup> <50 BIRTHS/YEAR

<sup>22</sup> >50-<199 BIRTHS/YEAR

<sup>23</sup> 200-<499

<sup>24</sup> 500+

Mean Median Mode Report

VARIABLE	LOW VOLUME <sup>25</sup>		LOW/MODERATE VOLUME <sup>26</sup>		HIGH/MODERATE VOLUME <sup>27</sup>		HIGH VOLUME <sup>28</sup>	
<b>TOTAL NUMBER IN GROUP</b>								
<b>RESOURCE UTILIAZATION</b>								
Q28: Number of inductions that occurred in your practice.	Maximum	25.00%	Maximum	37.0%	Maximum	56.5%	Maximum	36.2%
	Minimum	0.03%	Minimum	0.0%	Minimum	3.1%	Minimum	8.6%
	Average	3.41%	Average	12.8%	Average	20.5%	Average	21.1%
	Median	0.00%	Median	11.3%	Median	19.6%	Median	21.0%
	25th %	0.00%	25th Percentile	2.6%	25th Percentile	15.3%	25th Percentile	17.4%
	50th %	0.00%	50th Percentile	11.3%	50th Percentile	19.6%	50th Percentile	21.0%
	75th %	4.44%	75th Percentile	21.3%	75th Percentile	26.0%	75th Percentile	24.7%
Q29: Of the total number of inductions done by your practice, what number occurred prior to 41 weeks gestation?	Maximum	100.00%	Maximum	100%	Maximum	100%	Maximum	99.4%
	Minimum	0.00%	Minimum	0.0%	Minimum	0.05%	Minimum	13.0%
	Average	32.15%	Average	47.9%	Average	61.3%	Average	59.6%
	Median	20.25%	Median	50%	Median	62.3%	Median	61.4%
	25th %	0.00%	25th Percentile	25%	25th Percentile	51.5%	25th Percentile	50.8%
	50th %	20.25%	50th Percentile	50%	50th Percentile	62.3%	50th Percentile	61.4%
	75th %	54.17%	75th Percentile	66.6%	75th Percentile	75.0%	75th Percentile	73.1%

<sup>25</sup> <50 BIRTHS/YEAR

<sup>26</sup> >50-<199 BIRTHS/YEAR

<sup>27</sup> 200-<499

<sup>28</sup> 500+

Mean Median Mode Report

VARIABLE	LOW VOLUME <sup>29</sup>		LOW/MODERATE VOLUME <sup>30</sup>		HIGH/MODERATE VOLUME <sup>31</sup>		HIGH VOLUME <sup>32</sup>	
	Q30: Number of epidurals used for pain relief during labor (includes intrathecal BUT excludes epidurals for the sole purpose of anesthesia for C-sections or assisted deliveries).	Maximum	41.67%	Maximum	62.4%	Maximum	84.2%	Maximum
Minimum		0.00%	Minimum	0.0%	Minimum	0	Minimum	6.6%
Average		5.07%	Average	22.9%	Average	35.1%	Average	48.9%
Median		2.70%	Median	18.1%	Median	36.8%	Median	48.2%
25th %		0.00%	25th Percentile	3.0%	25th Percentile	21.7%	25th Percentile	37.2%
50th %		2.70%	50th Percentile	18.1%	50th Percentile	36.8%	50th Percentile	48.2%
75th %		6.90%	75th Percentile	36.6%	75th Percentile	50.1%	75th Percentile	59.6%

<sup>29</sup> <50 BIRTHS/YEAR

<sup>30</sup> >50-<199 BIRTHS/YEAR

<sup>31</sup> 200-<499

<sup>32</sup> 500+

Mean Median Mode Report

VARIABLE	LOW VOLUME <sup>33</sup>		LOW/MODERATE VOLUME <sup>34</sup>		HIGH/MODERATE VOLUME <sup>35</sup>		HIGH VOLUME <sup>36</sup>	
<b>TOTAL NUMBER IN GROUP</b>								
Q31: Number of women staying less than 12 hours after the infant's birth.	Maximum	84.62%	Maximum	100%	Maximum	76.6%	Maximum	1.9%
	Minimum	0.00%	Minimum	0.0%	Minimum	0.0%	Minimum	0.0%
	Average	16.17%	Average	18.8%	Average	16.8%	Average	0.1%
	Median	0.00%	Median	0.0%	Median	0.0%	Median	0.0%
	25th %	0.00%	25th Percentile	0.0%	25th Percentile	0.0%	25th Percentile	0.0%
	50th %	0.00%	50th Percentile	0.0%	50th Percentile	0.0%	50th Percentile	0.0%
	75th %	22.50%	75th Percentile	4.3%	75th Percentile	36.6%	75th Percentile	0.0%
Q33: Number of women who had a Cesarean birth and stayed more than 72 hours after the infant's birth.	Maximum	60.00%	Maximum	66.6%	Maximum	100%	Maximum	67.0%
	Minimum	0.00%	Minimum	0.0%	Minimum	0.0%	Minimum	0.0%
	Average	6.30%	Average	13.6%	Average	16.5%	Average	25.6%
	Median	0.00%	Median	10.0%	Median	6.8%	Median	10.3%
	25th %	0.00%	25th Percentile	0.0%	25th Percentile	0.3%	25th Percentile	1.6%
	50th %	0.00%	50th Percentile	10.0%	50th Percentile	6.8%	50th Percentile	10.3%
	75th %	2.00%	75th Percentile	17.5%	75th Percentile	18.8%	75th Percentile	46.6%

<sup>33</sup> <50 BIRTHS/YEAR

<sup>34</sup> >50-<199 BIRTHS/YEAR

<sup>35</sup> 200-<499

<sup>36</sup> 500+

Mean Median Mode Report

VARIABLE	LOW VOLUME <sup>37</sup>		LOW/MODERATE VOLUME <sup>38</sup>		HIGH/MODERATE VOLUME <sup>39</sup>		HIGH VOLUME <sup>40</sup>	
	Q34: Of the total number of women who gave birth in your practice, how many had an unplanned re-admission to a hospital within 6 weeks after delivery for any obstetrical reason?	Maximum	11.11%	Maximum	3.0%	Maximum	2.9%	Maximum
	Minimum	0.00%	Minimum	0.0%	Minimum	0.0%	Minimum	0.0%
	Average	1.38%	Average	0.5%	Average	0.7%	Average	0.6%
	Median	0.00%	Median	0.0%	Median	0.5%	Median	0.4%
	25th %	0.00%	25th Percentile	0.0%	25th Percentile	0.4%	25th Percentile	0.2%
	50th %	0.00%	50th Percentile	0.0%	50th Percentile	0.5%	50th Percentile	0.4%
	75th %	0.00%	75th Percentile	0.7%	75th Percentile	0.9%	75th Percentile	0.5%

<sup>37</sup> <50 BIRTHS/YEAR

<sup>38</sup> >50-<199 BIRTHS/YEAR

<sup>39</sup> 200-<499

<sup>40</sup> 500+

Mean Median Mode Report

VARIABLE	LOW VOLUME <sup>41</sup>	LOW/MODERATE VOLUME <sup>42</sup>	HIGH/MODERATE VOLUME <sup>43</sup>	HIGH VOLUME <sup>44</sup>														
<b>TOTAL NUMBER IN GROUP</b>																		
<b>PRACTICE MEASURES</b>																		
Rate of Outpatient Visits/midwife: Total number of outpatient visits per year/midwife			<table border="1"> <tr><td>Maximum</td><td>11430</td></tr> <tr><td>Minimum</td><td>2</td></tr> <tr><td>Average</td><td>5455</td></tr> <tr><td>Median</td><td>5569</td></tr> <tr><td>25th Percentile</td><td>4103</td></tr> <tr><td>50th Percentile</td><td>5569</td></tr> <tr><td>75th Percentile</td><td>7227</td></tr> </table>	Maximum	11430	Minimum	2	Average	5455	Median	5569	25th Percentile	4103	50th Percentile	5569	75th Percentile	7227	
Maximum	11430																	
Minimum	2																	
Average	5455																	
Median	5569																	
25th Percentile	4103																	
50th Percentile	5569																	
75th Percentile	7227																	
Rate births/midwife: Total number of births per FTE midwife			<table border="1"> <tr><td>Maximum</td><td>774</td></tr> <tr><td>Minimum</td><td>36</td></tr> <tr><td>Average</td><td>287</td></tr> <tr><td>Median</td><td>270</td></tr> <tr><td>25th Percentile</td><td>216</td></tr> <tr><td>50th Percentile</td><td>270</td></tr> <tr><td>75th Percentile</td><td>345</td></tr> </table>	Maximum	774	Minimum	36	Average	287	Median	270	25th Percentile	216	50th Percentile	270	75th Percentile	345	
Maximum	774																	
Minimum	36																	
Average	287																	
Median	270																	
25th Percentile	216																	
50th Percentile	270																	
75th Percentile	345																	

\*Data entry error

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<sup>41</sup> <50 BIRTHS/YEAR

<sup>42</sup> >50-<199 BIRTHS/YEAR

<sup>43</sup> 200-<499

<sup>44</sup> 500+