



Office of Family Health

# HB 3311 Data Request

Prepared by Maternal and Child Health  
Assessment, Evaluation and Informatics Unit

## Analysis of Data from:

- Oregon Vital Records 2008-2010
- Oregon Pregnancy Risk Assessment Monitoring System (PRAMS; 2009-2010 Births)

January 2012

## Table of Contents:

<b>Disparities in Birth Outcomes</b>	
Table 1: Overall.....	2
Table 2: Among those with Medicaid paid births and those with births not paid by Medicaid..	3
Table 3: Among those who live in urban areas and those who live in rural areas.....	4
<b>Disparities in Birth Outcomes</b>	
Figure 1: Premature Birth.....	5
Figure 2: Low Birthweight.....	5
Figure 3: Cesarean Delivery.....	6
Figure 4: Apgar Score <8.....	6
Figure 5: Medicaid Births.....	6
Figure 6: Infant Mortality Rates.....	7
Figure 7: Breastfeeding Initiation.....	7
Figure 8: Postpartum Depression Symptoms.....	7
Appendix I: Data for Birth Outcomes.....	8
Appendix II: Data for Birth Outcomes Among Those with Medicaid Paid Births and Those with Births not Paid for by Medicaid.....	10
Appendix III: Data for Birth Outcomes Among Those who Live in Urban Areas and Those who Live in Rural Areas.....	12
Appendix VI: Understanding the Multiple Race Variable.....	14

**Table 1: Disparities in Birth Outcomes**

*Based on statistical significance compared to Non-Latino White.*

<b>Based on statistical significance compared to Non-Latino White</b>						
<b>Indicator</b>	<b>Hispanic/Latino</b>	<b>Non-Latino African American</b>	<b>Non-Latino American Indian</b>	<b>Non-Latino Asian</b>	<b>Non-Latino Pacific Islander</b>	<b>Non-Latino Multiple Race</b>
Premature Birth	○	▲	▲	○	▲	▲
Low Birthweight	○	▲	▲	▲	▲	▲
Cesarean Delivery	○	▲	○	▲	▲	▲
Apgar Score	○	▲	○	○	○	○
Medicaid/OHP Births <i>(principal payment source)</i>	▲	▲	▲	○	○	▲
Infant Mortality	▲	▲	▲	○	○	○
Breastfeeding Initiated	○	○	○	○	○	○
Postpartum Depression Symptoms	○	○	○	○	○	○

*Referent group is Non-Latino White*

*Underlying numbers are in Appendix I*

*Oregon Vital Records 2008-2010: Premature Births, Low Birthweight, Cesarean Delivery, Apgar Score and Medicaid Paid Births*

*PRAMS 2009-2010 Births: Breastfeeding Initiated, Postpartum Depression Symptoms*

*See Appendix III for explanation of multiple race variable*

<b>Symbols</b>	
No disparity/ Doing better	○
Disparity	▲
NP: Not provided due to small numbers	

**Table 2: Disparities in Birth Outcomes**  
*Among those with Medicaid paid births and those with births not paid by Medicaid*

<i>Based on statistical significance compared to Non-Latino White</i>												
Indicator	Hispanic/Latino		Non-Latino African American		Non-Latino American Indian		Non-Latino Asian		Non-Latino Pacific Islander		Non-Latino Multiple Race	
	Medicaid	Non-Medicaid	Medicaid	Non-Medicaid	Medicaid	Non-Medicaid	Medicaid	Non-Medicaid	Medicaid	Non-Medicaid	Medicaid	Non-Medicaid
Premature Birth	○	▲	▲	▲	○	○	○	○	○	○	▲	▲
Low Birthweight	○	▲	▲	▲	○	○	○	▲	○	○	○	▲
Cesarean Delivery	○	○	▲	▲	○	○	▲	▲	▲	▲	▲	○
Apgar Score	○	○	○	○	○	○	○	○	○	○	○	○
Infant Mortality	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Breastfeeding Initiated	○	○	○	○	○	○	○	○	○	○	○	○
Postpartum Depression Symptoms	○	○	○	○	○	○	○	○	○	○	○	○

Referent group is Non-Latino White

Oregon Vital Records 2008-2010: Premature Births, Low Birthweight, Cesarean Delivery, Apgar Score and Medicaid Paid Births

PRAMS 2009-2010 Births: Breastfeeding Initiated, Postpartum Depression Symptoms

See Appendix III for explanation of multiple race variable

Symbols	
No disparity/ Doing better	○
Disparity	▲
NP: Not provided due to small numbers	

**Table 3: Disparities in Birth Outcomes**  
*Among those who live in urban areas and those who live in rural areas*

<b>Based on statistical significance compared to Non-Latino White</b>												
Indicator	Hispanic/Latino		Non-Latino African American		Non-Latino American Indian		Non-Latino Asian		Non-Latino Pacific Islander		Non-Latino Multiple Race	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Premature Birth	○	○	▲	○	○	▲	○	○	▲	○	▲	○
Low Birthweight	▲	○	▲	○	▲	○	▲	○	▲	○	▲	○
Cesarean Delivery	○	▲	▲	○	○	▲	▲	▲	▲	○	▲	○
Apgar Score	○	○	▲	○	○	○	○	○	○	○	○	○
Medicaid/OHP Births ( <i>principal payment source</i> )	▲	▲	▲	▲	▲	▲	○	○	▲	○	▲	▲
Infant Mortality	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Breastfeeding Initiated	○	○	○	○	○	○	○	○	○	○	○	○
Postpartum depression/symptoms	○	○	○	○	○	○	○	○	○	○	○	○

Referent group is Non-Latino White

Oregon Vital Records 2008-2010: Premature Births, Low Birthweight, Cesarean Delivery, Apgar Score and Medicaid Paid Births

PRAMS 2009-2010 Births: Breastfeeding Initiated, Postpartum Depression Symptoms

See Appendix III for explanation of multiple race variable

Symbols	
No disparity/ Doing better	○
Disparity	▲
NP: Not provided due to small numbers	

## Figures 1-8: Disparities in Birth Outcomes

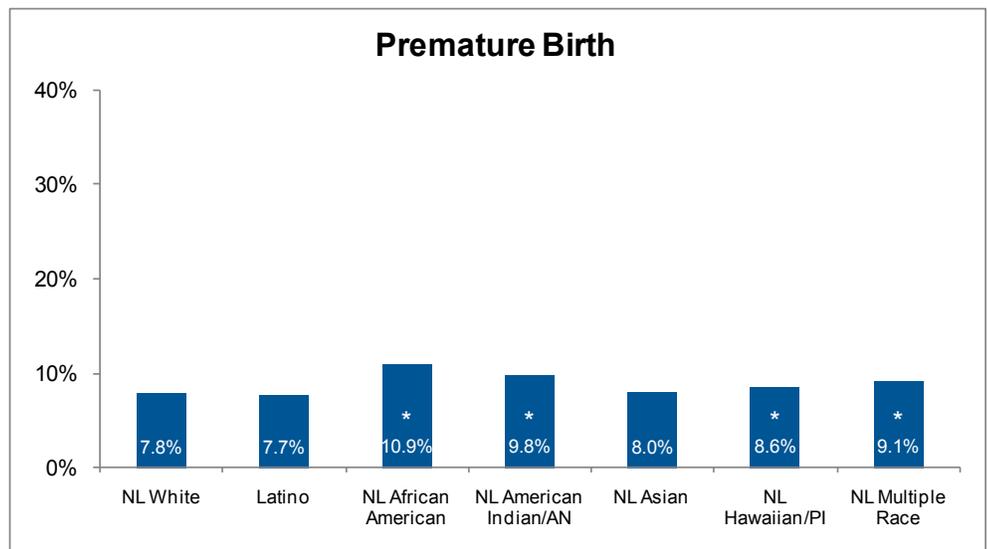
Reference for Table 1 (page 2)

Based on statistical significance compared to Non-Latino White.

See Appendix III for explanation of multiple race variable.

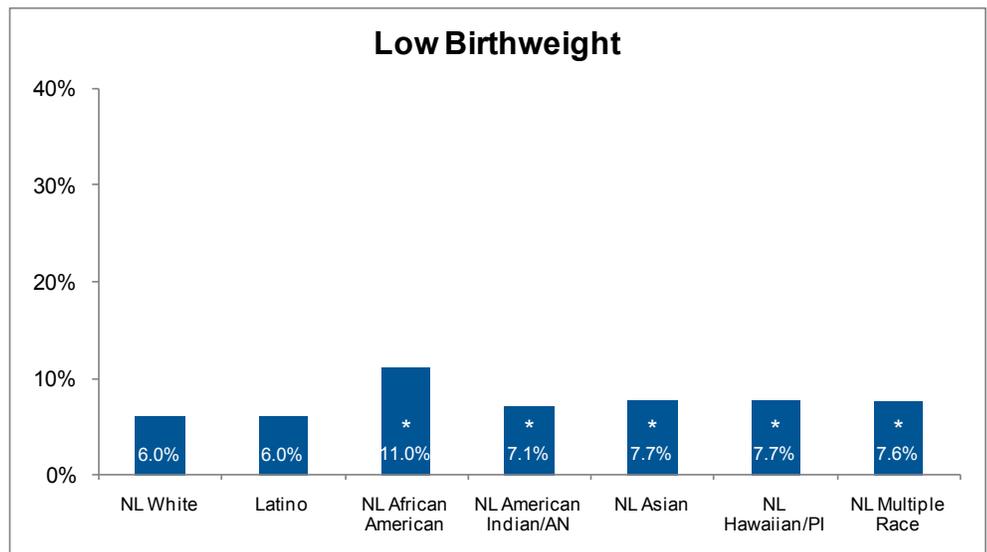
**Figure 1. Premature Births:**  
Estimated gestational age <37 weeks.

African Americans are at the greatest risk for premature birth. American Indian/Alaska Natives, multiple race mothers, and Hawaiian/Pacific Islanders are also at significantly higher risk than non-Latino Whites.



**Figure 2. Low Birthweight:**  
Birthweight is <2500 grams.

African Americans are at the greatest risk for delivering babies with low birth weight. Asian, Hawaiian/Pacific Islanders, multiple race mothers and American Indian/Alaska Natives are also at significantly higher risk than non-Latino Whites.



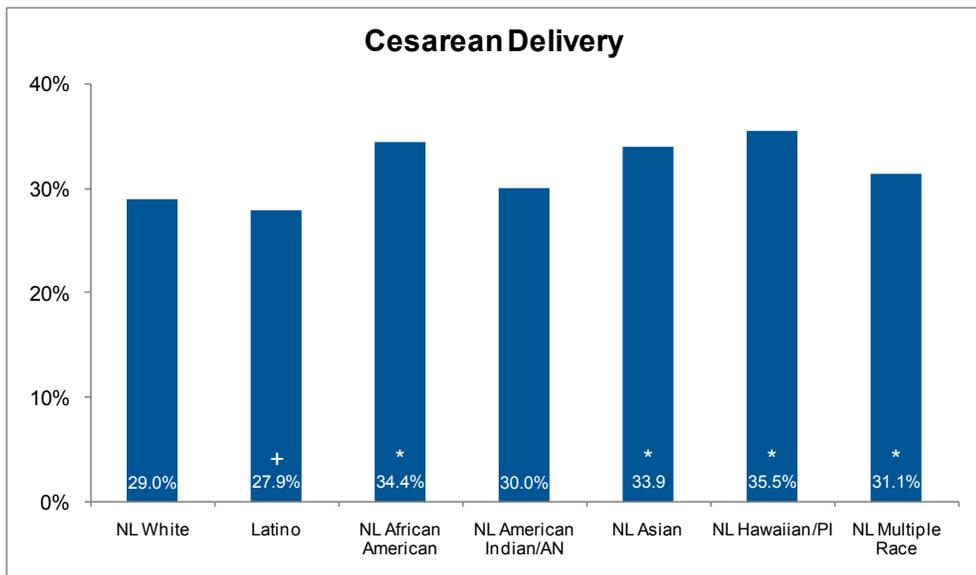
\* Indicates statistically significant outcomes that are worse than the reference group (Non-Latino Whites)

+ Indicates statistically significant outcomes that are better than the reference group (Non-Latino Whites)

Source: Oregon Vital Records 2008-2010; PRAMS 2009-2010 Births

**Figure 3. Cesarean Delivery:**  
Method of delivery: Cesarean delivery.

All population groups, with the exception of American Indian/Alaska Native and Latinas, are significantly more likely to have a Cesarean birth than non-Latino whites. Latina mothers have significantly less Cesarean births than non-Latino White mothers.

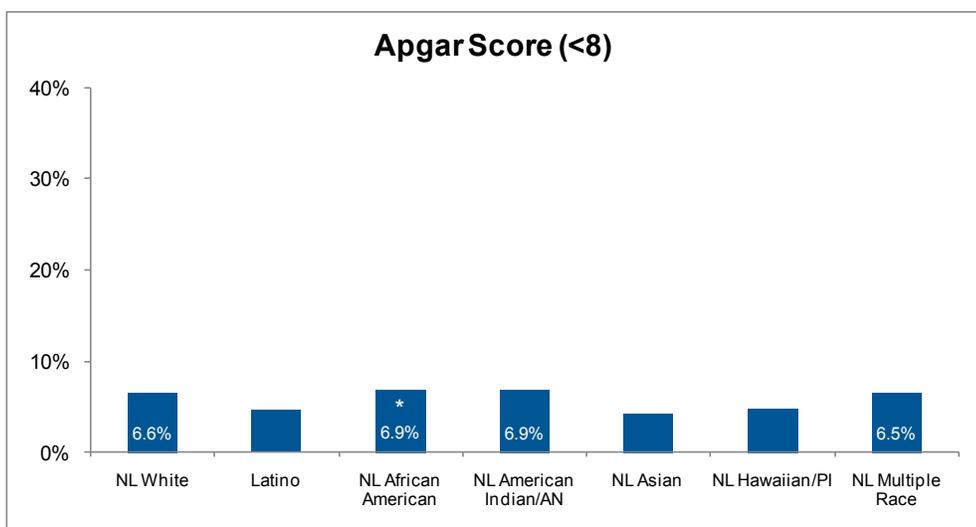


**Figure 4. Apgar Score:**

Apgar Score is <8.

The Apgar score is determined by evaluating the newborn baby on five criteria (appearance, pulse, grimace, activity, and respiration) on a scale from zero to two, then summing up the five values thus obtained. The score ranges from 0-10.

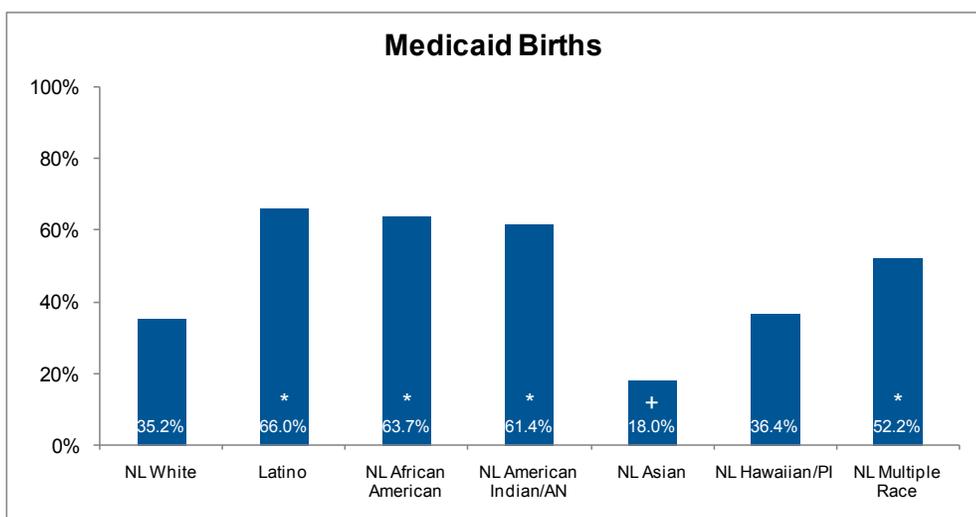
African American babies are at greater risk for having a low Apgar score. Latino, Asian and Hawaiian/Pacific Islander babies are significantly less likely than non-Latino Whites to have Apgar scores less than 8.



**Figure 5. Medicaid Births:**

Principal source of payment for the birth is Medicaid/Oregon Health Plan.

Latina, African American, American Indian/AN, and multiple race mothers have significantly more births paid by Medicaid than non-Latino Whites. Asians have significantly fewer Medicaid births than non-Latino Whites.



\* Indicates statistically significant outcomes that are worse than the reference group (Non-Latino Whites)

+ Indicates statistically significant outcomes that are better than the reference group (Non-Latino Whites)

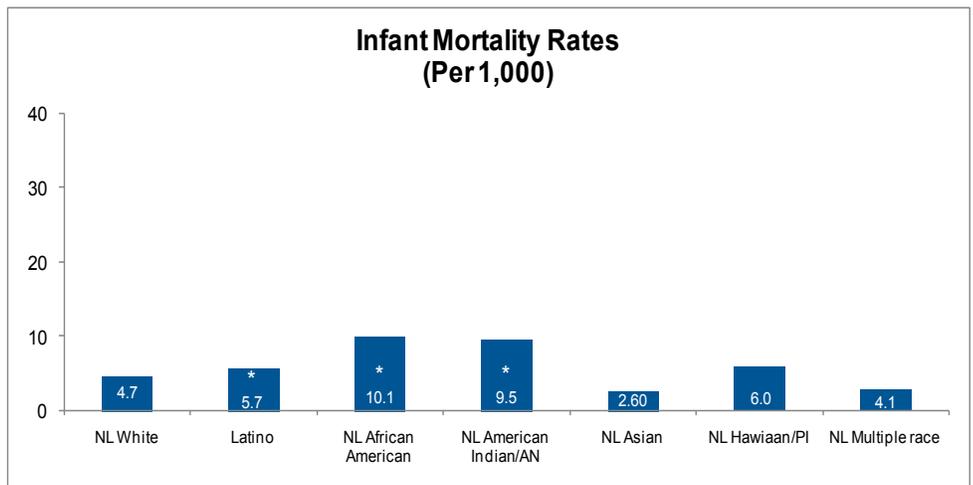
Source: Oregon Vital Records 2008-2010; PRAMS 2009-2010 Births

**Figure 6. Infant Mortality Rates:**

*Based on deaths that occurred in 2008-2009.*

African Americans, American Indian/Alaska Natives, and Latinos have a significantly higher rate of infant mortality compared with non-Latino Whites.

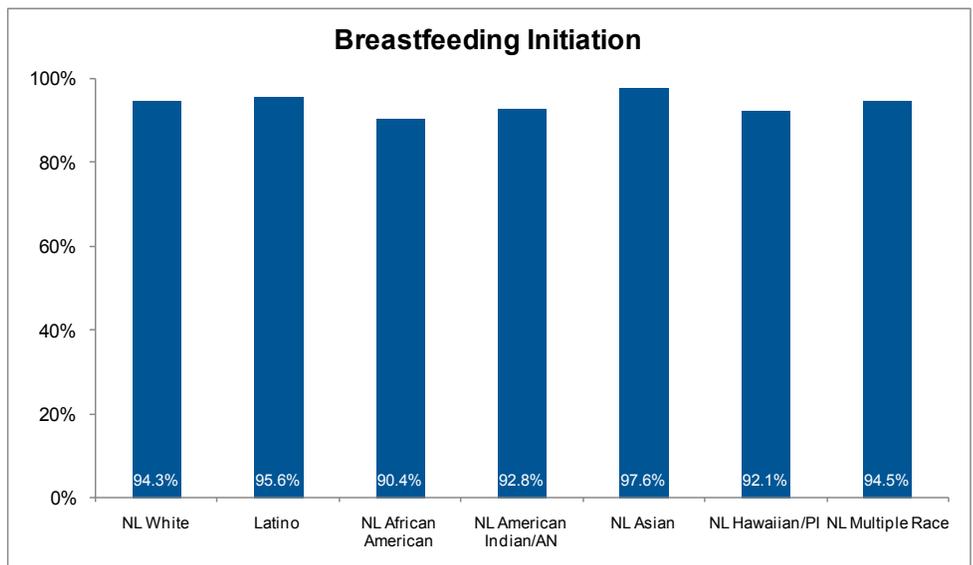
For NL Asians, NL Hawaiian/Pacific Islanders, and those with multiple races, the absolute numbers of deaths in 2008-2009 were less than 12. Numbers less than 12 may be statistically unreliable, so they should be interpreted with caution.



**Figure 7. Breastfeeding Initiation:**

*Breastfeeding initiation after delivery (PRAMS 2009-2010 births). Question: Did you ever breastfeed or pump breast milk to feed your new baby after delivery, even for a short period of time?*

There is no significant difference in breastfeeding initiation among population groups in comparison to non-Latino whites.

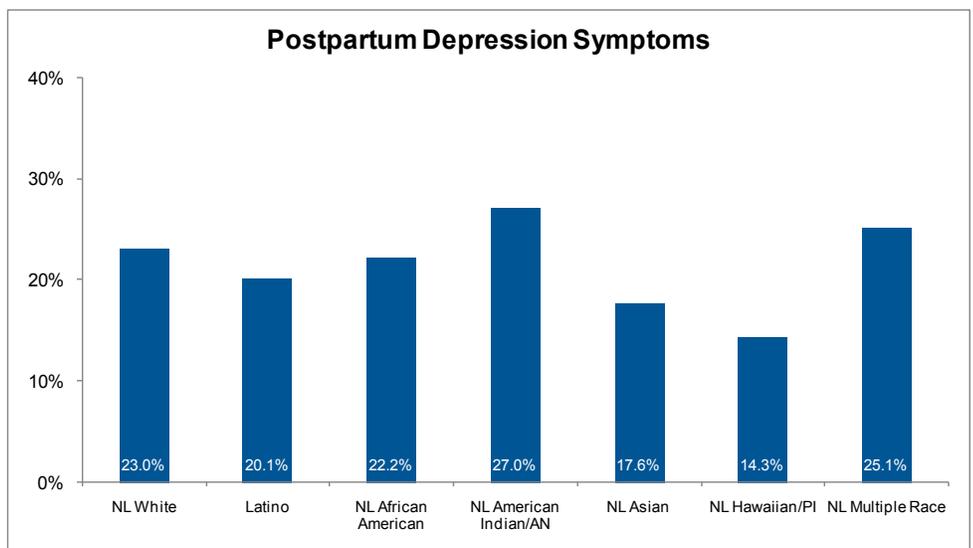


**Figure 8. Postpartum Depression Symptoms:**

*Checked "Always" or "Often" in any of the three postpartum depression questions (PRAMS 2009-2010 births). Question: Since your new baby was born, how often have you felt or experienced the following (Never, Rarely, Sometimes, Often, or Always)*

1. I felt down, depressed, or sad
2. I felt hopeless
3. I felt slowed down

There is no significant difference among population groups of postpartum depression than that of non-Latino Whites.



\* Indicates statistically significant outcomes that are worse than the reference group (Non-Latino Whites)

+ Indicates statistically significant outcomes that are better than the reference group (Non-Latino Whites)

Source: Oregon Vital Records 2008-2010; PRAMS 2009-2010 Births

## APPENDIX I: Data for Table 1 (page 2): Disparities in Birth Outcomes

Confidence Interval (CI): If the survey were repeated 100 times, the percentage who answered "YES" would be expected to fall within the confidence interval range in 95 of the 100 surveys.

Premature Birth	N: # of Births	Percent of Births	CI: Lower Bounds	CI: Upper Bounds	Significance: 95% Confidence Level
Non-Latino (NL) White	96,162	7.8%	7.8%	7.9%	
Latino/Hispanic	28,500	7.7%	7.6%	7.8%	
NL African American	2,920	10.9%	10.5%	11.3%	*
NL American Indian/Alaska Native	1,801	9.8%	9.4%	10.3%	*
NL Asian	5,162	8.0%	7.8%	8.2%	
NL Hawaiian/Pacific Islander	2,026	8.6%	8.2%	9.0%	*
NL Multiple Race	3,778	9.1%	8.8%	9.4%	*

Low Birthweight	N: # of Births	Percent of Births	CI: Lower Bounds	CI: Upper Bounds	Significance: 95% Confidence Level
Non-Latino (NL) White	96,224	6.0%	6.0%	6.0%	
Latino/Hispanic	28,519	6.0%	5.9%	6.1%	
NL African American	2,920	11.0%	10.6%	11.4%	*
NL American Indian/Alaska Native	1,801	7.1%	6.8%	7.4%	*
NL Asian	5,165	7.7%	7.5%	7.9%	*
NL Hawaiian/Pacific Islander	2,026	7.7%	7.4%	8.0%	*
NL Multiple Race	3,782	7.6%	7.4%	7.8%	*

Cesarean Delivery	N: # of Births	Percent of Births	CI: Lower Bounds	CI: Upper Bounds	Significance: 95% Confidence Level
Non-Latino (NL) White	96,218	29.0%	28.8%	29.2%	
Latino/Hispanic	28,519	27.9%	27.6%	28.2%	+
NL African American	2,920	34.4%	33.1%	35.7%	*
NL American Indian/Alaska Native	1,802	30.0%	28.6%	31.4%	
NL Asian	5,165	33.9%	33.0%	34.8%	*
NL Hawaiian/Pacific Islander	2,026	35.5%	34.0%	37.1%	*
NL Multiple Race	3,782	31.1%	30.1%	32.1%	*

Apgar Score < 8	N: # of Births	Percent of Births	CI: Lower Bounds	CI: Upper Bounds	Significance: 95% Confidence Level
Non-Latino (NL) White	95,961	6.6%	6.6%	6.6%	
Latino/Hispanic	28,466	4.6%	4.6%	4.7%	+
NL African American	2,915	6.9%	6.7%	7.2%	*
NL American Indian/Alaska Native	1,791	6.9%	6.6%	7.2%	
NL Asian	5,153	4.2%	4.1%	4.3%	+
NL Hawaiian/Pacific Islander	2,025	4.8%	4.6%	5.0%	+
NL Multiple Race	3,760	6.5%	6.3%	6.7%	

\* Indicates statistically significant outcomes that are worse than the reference group (Non-Latino Whites)

+ Indicates statistically significant outcomes that are better than the reference group (Non-Latino Whites)

Source: Oregon Vital Records 2008-2010; PRAMS 2009-2010 Births

**APPENDIX I (continued): Data for Table 1 (page 2): Disparities in Birth Outcomes**

<b>Medicaid Paid Births</b>	<b>N: # of Births</b>	<b>Percent of Births</b>	<b>CI: Lower Bounds</b>	<b>CI: Upper Bounds</b>	<b>Significance: 95% Confidence Level</b>
Non-Latino (NL) White	95,786	35.2%	35.0%	35.4%	
Latino/Hispanic	28,364	66.0%	65.2%	66.8%	*
NL African American	2,906	63.7%	61.4%	66.0%	*
NL American Indian/Alaska Native	1,794	61.4%	58.6%	64.2%	*
NL Asian	5,142	18.0%	17.5%	18.5%	+
NL Hawaiian/Pacific Islander	2,012	36.4%	34.8%	38.0%	
NL Multiple Race	3,766	52.2%	50.5%	53.9%	*
<b>Infant Mortality (2008-2009)</b>	<b>N: # of Births</b>	<b>Rate per 1,000</b>	<b>CI: Lower Bounds</b>	<b>CI: Upper Bounds</b>	<b>Significance: 95% Confidence Level</b>
Non-Latino (NL) White	65,345	309	4.7%	4.8%	
Latino/Hispanic	19,441	109	5.5%	5.7%	*
NL African American	1,978	20	6.2%	15.6%	*
NL American Indian/Alaska Native	1,259	12	4.9%	16.6%	*
NL Asian	3,473	9	1.2%	4.9%	
NL Hawaiian/Pacific Islander	1,341	8	2.6%	11.8%	
NL Multiple Race	2,440	10	2.0%	7.5%	
<b>Breastfeeding Initiation</b>	<b>(Unweighted) N</b>	<b>(Weighted) Percent "Yes"</b>	<b>CI: Lower Bounds</b>	<b>CI: Upper Bounds</b>	<b>Significance: 95% Confidence Level</b>
Non-Latino (NL) White	785	94.3%	92.3%	95.8%	
Latino/Hispanic	878	95.6%	94.0%	96.8%	
NL African American	338	90.4%	86.6%	93.3%	
NL American Indian/Alaska Native	275	92.8%	88.9%	95.3%	
NL Asian	381	97.6%	94.9%	98.8%	
NL Hawaiian/Pacific Islander	145	92.1%	85.4%	95.8%	
NL Multiple Race	482	94.5%	91.8%	96.3%	
<b>Postpartum Depression Symptoms</b>	<b>(Unweighted) N</b>	<b>(Weighted) Percent "Yes"</b>	<b>CI: Lower Bounds</b>	<b>CI: Upper Bounds</b>	<b>Significance: 95% Confidence Level</b>
Non-Latino (NL) White	801	23.0%	20.2%	26.1%	
Latino/Hispanic	871	20.1%	17.5%	23.0%	
NL African American	335	22.2%	17.9%	27.1%	
NL American Indian/Alaska Native	280	27.0%	22.1%	32.6%	
NL Asian	380	17.6%	14.1%	21.9%	
NL Hawaiian/Pacific Islander	146	14.3%	9.3%	21.3%	
NL Multiple Race	494	25.1%	21.3%	29.3%	

The data listed for Breastfeeding Initiation and Postpartum Depression Symptoms is from the Pregnancy Risk Assessment Monitoring Survey (PRAMS). PRAMS is a surveillance project of the Centers for Disease Control and Prevention (CDC) and state health departments. PRAMS collects state-specific, population-based data on maternal attitudes and experiences before, during, and shortly after pregnancy.

When reporting PRAMS data, weighted percentages of responses are used, rather than rates. The "N's" listed above are the actual numbers of survey responses, not weighted.

\* Indicates statistically significant outcomes that are worse than the reference group (Non-Latino Whites)

+ Indicates statistically significant outcomes that are better than the reference group (Non-Latino Whites)

Source: Oregon Vital Records 2008-2010; PRAMS 2009-2010 Births

**APPENDIX II: Data for Table 2 (page 3): Disparities in Birth Outcomes  
Among those with Medicaid paid births and those with births not paid by Medicaid**

Confidence Interval (CI): If the survey were repeated 100 times, the percentage who answered "YES" would be expected to fall within the confidence interval range in 95 of the 100 surveys.

Mcd=Medicaid Birth; NM=Non-Medicaid Birth

Premature Birth	N: # of Births		Percent of Births		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM
Non-Latino (NL) White	22,370	42,632	8.1%	7.6%	8.0%	7.5%	8.2%	7.7%		
Latino/Hispanic	12,844	6,694	7.0%	8.7%	6.9%	8.5%	7.1%	8.9%	+	*
NL African American	1,242	723	11.6%	10.2%	11.0%	8.0%	12.3%	12.8%	*	*
NL American Indian/Alaska Native	742	509	9.6%	10.2%	7.5%	7.6%	12.1%	13.4%		
NL Asian	590	2,867	8.8%	7.2%	6.6%	6.9%	11.5%	7.5%		
NL Hawaiian/Pacific Islander	462	870	8.9%	7.9%	6.4%	6.2%	12.0%	10.0%		
NL Multiple Race	1,099	1,094	10.0%	8.6%	9.4%	8.1%	10.6%	9.1%	*	*

Low Birthweight	N: # of Births		Percent of Births		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM
Non-Latino (NL) White	22,381	42,667	6.5%	5.7%	6.4%	5.7%	6.6%	5.8%		
Latino/Hispanic	12,850	6,703	5.6%	6.4%	5.5%	6.3%	5.7%	6.6%	+	*
NL African American	1,242	722	12.0%	9.7%	11.3%	7.6%	12.7%	12.3%	*	*
NL American Indian/Alaska Native	743	508	6.7%	7.7%	5.0%	5.5%	8.8%	10.5%		
NL Asian	590	2,870	8.1%	7.3%	6.0%	7.0%	10.7%	7.6%		*
NL Hawaiian/Pacific Islander	462	870	6.7%	7.4%	4.6%	5.7%	9.5%	9.5%		
NL Multiple Race	1,100	1,095	7.9%	7.7%	6.4%	6.1%	9.7%	9.5%		*

Cesarean Delivery	N: # of Births		Percent of Births		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM
Non-Latino (NL) White	22,382	42,663	27.3%	29.8%	27.0%	29.5%	27.7%	30.1%		
Latino/Hispanic	12,849	6,702	26.7%	30.0%	26.2%	29.3%	27.2%	30.7%		
NL African American	1,242	723	35.7%	35.1%	33.7%	32.5%	37.7%	37.7%	*	*
NL American Indian/Alaska Native	743	509	27.7%	32.0%	25.7%	29.2%	29.7%	34.8%		
NL Asian	590	2,870	30.3%	34.1%	27.9%	32.9%	32.7%	35.4%	*	*
NL Hawaiian/Pacific Islander	462	870	36.1%	33.8%	32.8%	31.6%	39.4%	36.1%	*	*
NL Multiple Race	1,100	1,095	30.2%	30.0%	28.4%	28.2%	32.0%	31.8%	*	

\* Indicates statistically significant outcomes that are worse than the reference group (Non-Latino Whites)

+ Indicates statistically significant outcomes that are better than the reference group (Non-Latino Whites)

Source: Oregon Vital Records 2008-2009; PRAMS 2009-2010 Births

**APPENDIX II (continued): Data for Table 2 (page 3): Disparities in Birth Outcomes Among those with Medicaid paid births and those with births not paid by Medicaid**

Confidence Interval (CI): If the survey were repeated 100 times, the percentage who answered “YES” would be expected to fall within the confidence interval range in 95 of the 100 surveys.

*MCD=Medicaid Birth; NM-Non-Medicaid Birth*

Apgar Score < 8	N: # of Births		Percent of Births		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM
Non-Latino (NL) White	22,372	42,513	7.9%	6.4%	7.8%	6.3%	8.0%	6.5%		
Latino/Hispanic	12,842	6,354	4.8%	4.8%	4.7%	4.7%	4.9%	4.9%	+	+
NL African American	1,242	721	6.3%	7.9%	5.0%	6.0%	7.9%	10.2%		
NL American Indian/Alaska Native	742	505	6.7%	7.3%	5.0%	5.1%	8.8%	10.1%		
NL Asian	590	2,861	4.4%	4.1%	2.9%	4.0%	6.5%	4.3%	+	+
NL Hawaiian/Pacific Islander	462	869	5.0%	4.4%	3.2%	3.1%	7.5%	6.0%	+	+
NL Multiple Race	1098	1,082	7.5%	6.3%	6.0%	4.9%	9.3%	8.0%		

Breastfeeding Initiation	(Unweighted) N		(Weighted) Percent “Yes”		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM
Non-Latino (NL) White	277	504	90.0%	96.7%	85.7%	94.6%	93.1%	98.0%		
Latino/Hispanic	562	308	95.0%	96.5%	92.7%	93.7%	96.6%	98.1%		
NL African American	209	129	88.2%	94.4%	83.0%	88.1%	92.0%	97.5%		
NL American Indian/Alaska Native	174	101	92.2%	93.8%	87.0%	87.5%	95.5%	97.0%		
NL Asian	77	303	96.5%	97.8%	87.1%	94.8	99.1%	99.1%		
NL Hawaiian/Pacific Islander	55	90	91.5%	92.4%	79.2%	83.1	96.8%	96.8%		
NL Multiple Race	248	232	91.4%	98.3%	86.7%	96.1	94.6%	99.2%		

Postpartum Depression Symptoms	(Unweighted) N		(Weighted) Percent “Yes”		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM	Mcd	NM
Non-Latino (NL) White	282	515	21.4%	23.9%	16.9%	20.3%	26.7%	27.8%		
Latino/Hispanic	563	301	20.1%	20.4%	16.9%	16.1%	23.7%	25.6%		
NL African American	204	131	23.3%	20.2%	17.9%	14.0%	29.7%	28.4%		
NL American Indian/Alaska Native	178	102	27.5%	26.0%	21.4%	18.4%	34.7%	35.4%		
NL Asian	77	302	14.6%	18.5%	8.3%	14.5%	24.6%	23.4%		
NL Hawaiian/Pacific Islander	56	90	13.1%	15.1%	6.2%	8.9%	25.4%	24.4%		
NL Multiple Race	256	235	27.9%	22.4%	22.6%	17.1%	33.9%	28.7%		

The data listed for Breastfeeding Initiation and Postpartum Depression Symptoms is from the Pregnancy Risk Assessment Monitoring Survey (PRAMS). PRAMS is a surveillance project of the Centers for Disease Control and Prevention (CDC) and state health departments. PRAMS collects state-specific, population-based data on maternal attitudes and experiences before, during, and shortly after pregnancy.

When reporting PRAMS data, weighted percentages of responses are used, rather than rates. The “N’s” listed above are the actual numbers of survey responses, not weighted.

\* Indicates statistically significant outcomes that are worse than the reference group (Non-Latino Whites)

+ Indicates statistically significant outcomes that are better than the reference group (Non-Latino Whites)

Source: Oregon Vital Records 2008-2009; PRAMS 2009-2010 Births

**APPENDIX III: Data for Table 3 (page 4): Disparities in Birth Outcomes**

**Among those who live in urban areas and those who live in rural areas**

Confidence Interval (CI): If the survey were repeated 100 times, the percentage who answered "YES" would be expected to fall within the confidence interval range in 95 of the 100 surveys.

Premature Birth	N: # of Births		Percent of Births		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Non-Latino (NL) White	69,889	26,272	7.6%	8.1%	7.5%	8.0%	7.7%	8.2%		
Latino/Hispanic	22,891	5,970	7.6%	7.9%	7.5%	7.7%	7.7%	8.1%		
NL African American	2,832	88	10.9%	9.1%	10.5%	3.9%	11.3%	17.9%	*	
NL American Indian/Alaska Native	899	902	9.1%	10.4%	7.2%	8.4%	11.3%	12.7%		*
NL Asian	4,856	306	7.8%	10.8%	7.6%	7.4%	8.0%	15.2%		
NL Hawaiian/Pacific Islander	1,891	135	8.7%	6.7%	8.3%	3.1%	9.1%	12.7%	*	
NL Multiple Race	2,613	886	8.7%	9.6%	8.4%	7.6%	9.0%	12.0%	*	

Low Birthweight	N: # of Births		Percent of Births		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Non-Latino (NL) White	69,938	26,285	5.8%	6.4%	5.8%	6.3%	5.8%	6.5%		
Latino/Hispanic	22,907	5,974	6.1%	5.8%	6.0%	5.7%	6.2%	5.9%	*	+
NL African American	2,832	88	11.1%	9.1%	10.7%	3.9%	11.5%	17.9%	*	
NL American Indian/Alaska Native	899	902	7.6%	6.7%	5.9%	5.1%	9.6%	8.6%	*	
NL Asian	4,859	306	7.7%	8.2%	7.5%	5.3%	7.9%	12.1%	*	
NL Hawaiian/Pacific Islander	1,891	135	7.8%	7.4%	7.4%	3.5%	8.2%	13.6%	*	
NL Multiple Race	2,615	805	7.4%	7.7%	7.1%	5.9%	7.7%	9.9%	*	

Cesarean Delivery	N: # of Births		Percent of Births		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Non-Latino (NL) White	69,937	26,280	29.5%	27.5%	29.3%	27.2%	29.7%	27.8%		
Latino/Hispanic	22,907	5,974	27.4%	29.7%	27.0%	28.9%	27.8%	30.5%	+	*
NL African American	2,832	88	34.3%	37.5%	33.0%	25.8%	35.6%	52.7%	*	
NL American Indian/Alaska Native	899	903	29.0%	30.9%	27.1%	28.9%	31.0%	32.9%		*
NL Asian	4,859	306	33.8%	34.3%	32.8%	30.5%	34.8%	38.1%	*	*
NL Hawaiian/Pacific Islander	1,891	135	36.3%	25.2%	34.7%	17.5%	37.9%	35.2%	*	
NL Multiple Race	2,615	805	32.5%	27.8%	31.2%	25.9%	33.7%	29.7%	*	

Apgar Score < 8	N: # of Births		Percent of Births		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Non-Latino (NL) White	69,842	26,118	6.2%	7.9%	6.2%	7.8%	6.2%	8.0%		
Latino/Hispanic	22,884	5,942	4.3%	5.6%	4.2%	5.5%	4.4%	5.7%	+	+
NL African American	2,827	88	6.8%	9.1%	6.5%	3.9%	7.1%	17.9%	*	
NL American Indian/Alaska Native	899	892	6.3%	7.5%	4.8%	5.8%	8.2%	9.5%		
NL Asian	4,853	300	3.9%	10.3%	3.8%	7.0%	4.0%	14.6%	+	
NL Hawaiian/Pacific Islander	1,890	135	4.7%	5.9%	3.8%	2.5%	5.8%	11.6%	+	
NL Multiple Race	2,610	790	6.1%	7.7%	5.9%	5.9%	6.3%	9.9%		

**APPENDIX III (continued): Data for Table 3 (page 4): Disparities in Birth Outcomes Among those who live in urban areas and those who live in rural areas**

Confidence Interval (CI): If the survey were repeated 100 times, the percentage who answered “YES” would be expected to fall within the confidence interval range in 95 of the 100 surveys.

Medicaid Paid Births	N: # of Births		Percent of Births		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Non-Latino (NL) White	69,619	26,166	31.4%	45.4%	31.2%	44.8%	31.6%	46.0%		
Latino/Hispanic	22,782	5,943	66.8%	63.0%	65.9%	61.4%	67.7%	64.6%	*	*
NL African American	2,819	87	63.6%	65.5%	61.3%	49.6%	65.9%	84.9%	*	*
NL American Indian/Alaska Native	893	901	57.3%	65.4%	53.5%	61.1%	61.1%	69.7%	*	*
NL Asian	4,836	306	17.7%	23.5%	17.2%	20.9%	18.2%	26.1%	+	+
NL Hawaiian/Pacific Islander	1,877	135	35.6%	47.4%	34.0%	37.0%	37.2%	59.8%	*	
NL Multiple Race	2,602	803	48.9%	57.0%	47.0%	53.0%	50.8%	60.8%	*	*

Breastfeeding Initiation	N		Percent “Yes”		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Non-Latino (NL) White	581	204	94.6%	93.6%	92.3%	88.9%	96.2%	96.3%		
Latino/Hispanic	688	190	96.2%	93.4%	94.4%	88.5%	97.4%	96.3%		
NL African American	327	NP	90.4%	NP	86.5%	NP	93.3%	NP		
NL American Indian/Alaska Native	139	136	93.2%	92.3%	87.3%	86.5%	96.5%	95.8%		
NL Asian	358	23	97.8%	93.6%	95.2%	66.1%	99.0%	99.1%		
NL Hawaiian/Pacific Islander	137	NP	92.6%	NP	85.9%	NP	96.3%	NP		
NL Multiple Race	364	118	95.2%	92.1%	92.1%	85.4%	97.1%	95.9%		

Postpartum Depression Symptoms	N		Percent “Yes”		CI: Lower Bounds		CI: Upper Bounds		Significance: 95% Confidence Level	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Non-Latino (NL) White	592	209	23.0%	23.0%	19.7%	17.8%	26.7%	29.2%		
Latino/Hispanic	680	191	20.0%	20.9%	17.0%	15.4%	23.2%	27.5%		
NL African American	324	NP	22.3%	NP	18.0%	NP	27.4%	NP		
NL American Indian/Alaska Native	141	139	29.6%	24.5%	22.5%	18.0%	37.9%	32.4%		
NL Asian	357	23	17.3%	23.5%	13.6%	10.1%	21.6%	45.7%		
NL Hawaiian/Pacific Islander	139	NP	15.0%	NP	9.8%	NP	22.3%	NP		
NL Multiple Race	371	123	25.4%	24.1%	21.0%	17.0%	30.3%	33.1%		

NP= Not provided due to small numbers

The data listed for Breastfeeding Initiation and Postpartum Depression Symptoms is from the Pregnancy Risk Assessment Monitoring Survey (PRAMS). PRAMS is a surveillance project of the Centers for Disease Control and Prevention (CDC) and state health departments. PRAMS collects state-specific, population-based data on maternal attitudes and experiences before, during, and shortly after pregnancy.

When reporting PRAMS data, weighted percentages of responses are used, rather than rates. The “N’s” listed above are the actual numbers of survey responses, not weighted.

\* Indicates statistically significant outcomes that are worse than the reference group (Non-Latino Whites)

+ Indicates statistically significant outcomes that are better than the reference group (Non-Latino Whites)

Source: Oregon Vital Records 2008-2010; PRAMS 2009-2010 Births

Definition: Rural is less than 60 persons per square mile according to 1990 census, according to mother’s place of residence at time of birth.

## APPENDIX IV:

### Understanding the Multiple Race Variable

#### A mother is counted as Latina if she...

1. Checked at least one of the Latino/Hispanic checkboxes when asked about ethnicity.

#### A mother is counted as “multiple race” if she...

1. Checked 2 or more races (other than the combination of one race and “other” race)  
AND is not Latina/Hispanic

If the mother checked only one race, or one race and “other” race (and is not Latina/Hispanic), she is counted under the one specific race that she checked off.

Non-Latino (NL): This term is used throughout the charts and graphs in this publication to describe ethnic/racial groups who have been separated from the Latino population based on the criteria above.

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### Reference for Multiple Race Information

#### Ethnicity/Race Categories for Birth Certificate File:

Hispanic or Latino if at least one of these is checked off (check all that apply):

- Hispanic Mexican
- Hispanic Puerto Rican
- Hispanic Cuban
- Hispanic Other

Race: (check all that apply)

- White
- Black
- American Indian/Alaskan Native
- Asian:
  - Asian Indian
  - Chinese
  - Filipino
  - Japanese
  - Korean
  - Vietnamese
  - Other Asian
- Hawaiian/Pacific Islander:
  - Hawaiian
  - Guamanian or Chamorro
  - Samoan
  - Other Pacific islander
- Other:
  - (fill-in)

#### In Asian or Pacific Islander, checking 2 or more does not make the mother ‘multiple race’.

Examples: Chinese and Filipino = Asian  
Filipino and Samoan = multiple race  
White and Samoan = Multiple race  
Chinese and Filipino and Korean = Asian  
White and Other = White

#### For more information, please contact:

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