

SECTION E: PREGNANCY AND BIRTHS
SUBSECTION 1: PREGNANCY

E.1.1. PREGNANCY RATES PER 1,000 WOMEN AGE 15-44

Numerator is live births, fetal deaths and induced abortions to women of any age; denominator is women of child bearing age (15-44).

Source: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	89 per 1,000	79 per 1,000	--
KITSAP COUNTY	94 per 1,000	79 per 1,000	DECREASED
KITSAP COMPARED TO WA	higher	same	

KITSAP PREGNANCY RATES PER 1,000 WOMEN BY AGE GROUP

	1992-94	2010-12	TREND
Age 15 to 19	70 per 1,000	21 per 1,000	DECREASED
Age 19 to 24	204 per 1,000	129 per 1,000	DECREASED
Age 25 to 29	159 per 1,000	145 per 1,000	DECREASED
Age 30 to 34	100 per 1,000	108 per 1,000	--
Age 35 to 44	25 per 1,000	27 per 1,000	--

E.1.2. TEEN PREGNANCY RATE PER 1,000 FEMALES AGE 15-17

The number of births plus induced abortions and fetal deaths among females age 15-17 per 1000 females aged 15-17.

Sources: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	55 per 1,000	19 per 1,000	
KITSAP COUNTY	52 per 1,000	13 per 1,000	
KITSAP COMPARED TO WA	same	better	

E.1.3. ABORTION RATE PER 1,000 WOMEN AGE 15-44

The number of induced abortions among women age 15-44 per 1000 women age 15-44.

Sources: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	23 per 1,000	15 per 1,000	
KITSAP COUNTY	22 per 1,000	14 per 1,000	
KITSAP COMPARED TO WA	better	better	

KITSAP PREGNANT WOMEN BY SUBGROUP: 2010-12

- 14 per 1,000 pregnant women age <25
- 16 per 1,000 pregnant women age 25-34
- 3 per 1,000 pregnant women age 35+

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E.1.4. PRENATAL CARE INITIATION BY TRIMESTER

Sources: Birth Certificate Database, WA State Department of Health Center for Health Statistics; First Steps Database, WA State Department of Social and Health Services. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE			
FIRST TRIMESTER	81%	80%	--
SECOND TRIMESTER	15%	15%	--
THIRD TRIMESTER	3%	4%	■
NONE	1%	1%	--

KITSAP COUNTY			
FIRST TRIMESTER	78%	78%	--
SECOND TRIMESTER	19%	16%	--
THIRD TRIMESTER	3%	4%	■
NONE	1%	2%	■

KITSAP COMPARED TO WA			
FIRST TRIMESTER	lower	lower	
SECOND TRIMESTER	higher	higher	
THIRD TRIMESTER	lower	higher	
NONE	same	higher	

KITSAP BY SUB-GROUP: 2010-12				
	1st TRI,	2nd TRI,	3rd TRI,	NONE
Medicaid-Paid	55%,	36%,	9%,	1%
White, Non-Hispanic	80%,	15%,	4%,	1%
Black, Non-Hispanic	73%,	18%,	6%,	3%
American Indian/Alaska Native, Non-Hispanic	70%,	21%,	6%,	3%
Asian/Pacific Islander, Non-Hispanic	72%,	20%,	5%,	2%
Hispanic	70%,	22%,	5%,	3%

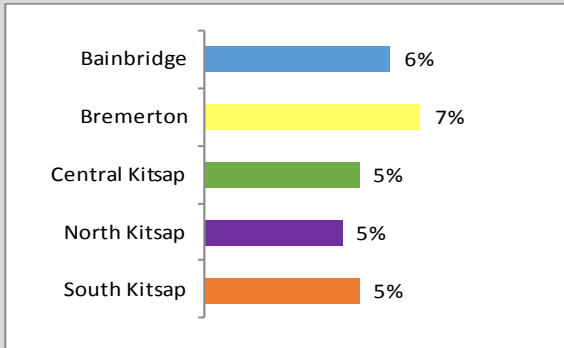
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E.1.5. THIRD TRIMESTER PRENATAL CARE INITIATION OR NO PRENATAL CARE

Sources: Birth Certificate Database, WA State Department of Health Center for Health Statistics; First Steps Database, WA State Department of Social and Health Services. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	4%	5%	
KITSAP COUNTY	3%	6%	
KITSAP COMPARED TO WA	better	worse	

KITSAP PREGNANT WOMEN BY SUBGROUP: 2010-12



- 8% of pregnant women age <25
- 5% of pregnant women age 25-34
- 4% of pregnant women age 35+
- 18% of pregnant women with less than high school education
- 10% of pregnant women on Medicaid

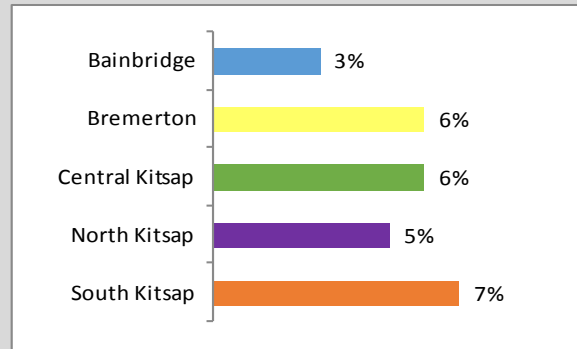
- 5% of White, Non-Hispanic
- 9% of Black, Non-Hispanic
- 9% of American Indian/Alaska Native, Non-Hispanic
- 8% of Asian/Pacific Islander, Non-Hispanic
- 8% of Hispanic

E.1.6. GESTATIONAL DIABETES

Sources: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	3%	6%	
KITSAP COUNTY	3%	6%	
KITSAP COMPARED TO WA	worse	same	

KITSAP PREGNANT WOMEN BY SUBGROUP: 2010-12



- 3% of pregnant women age <25
- 6% of pregnant women age 25-34
- 11% of pregnant women age 35+
- 6% of pregnant women with less than high school education

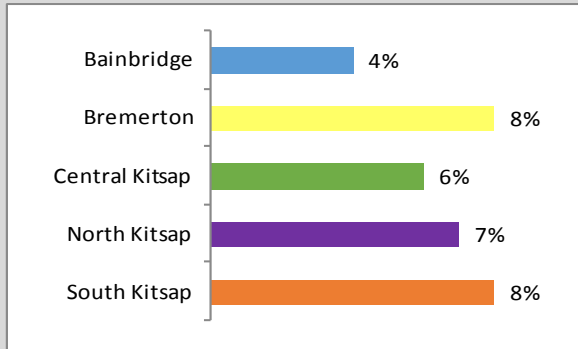
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E.1.7. GESTATIONAL HYPERTENSION

Sources: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	4%	5%	
KITSAP COUNTY	8%	8%	--
KITSAP COMPARED TO WA	worse	worse	

KITSAP PREGNANT WOMEN BY SUBGROUP: 2010-12



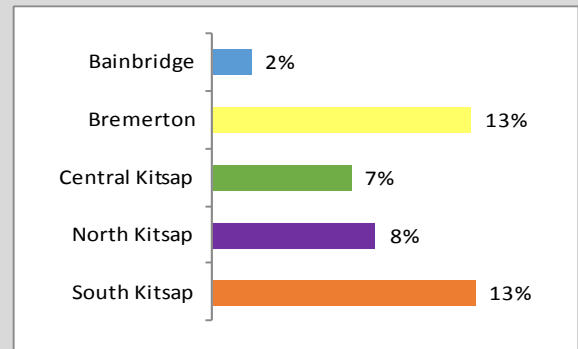
- 7% of pregnant women age <25
- 8% of pregnant women age 25-34
- 9% of pregnant women age 35+
- 8% of pregnant women with less than high school education

E.1.8. SMOKING DURING PREGNANCY

Sources: Birth Certificate Database, WA State Department of Health Center for Health Statistics; First Steps Database, WA State Department of Social and Health Services. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	18%	9%	
KITSAP COUNTY	20%	11%	
KITSAP COMPARED TO WA	worse	worse	

KITSAP PREGNANT WOMEN BY SUBGROUP: 2010-12



- 15% of pregnant women age <25
- 10% of pregnant women age 25-34
- 7% of pregnant women age 35+
- 25% of pregnant women with less than high school education
- 23% of pregnant women on Medicaid
- 5% of military women
- 14% of civilian women

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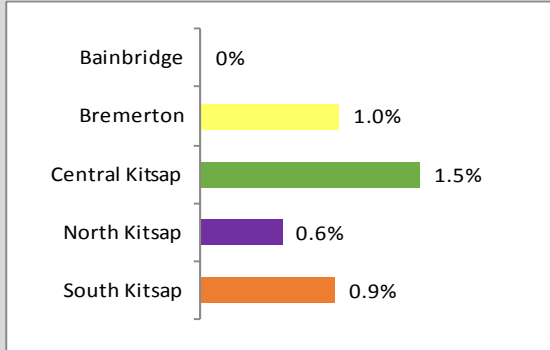
E.1.9. SMOKING CESSATION DURING PREGNANCY

Of pregnant women who report smoking in the first trimester, the proportion who are not smoking in the third trimester.

Sources: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 2004-06 and 2010-12.

	2004-06	2010-12	TREND
WA STATE	1.6%	1.5%	
KITSAP COUNTY	2.2%	0.9%	
KITSAP COMPARED TO WA	better	worse	

KITSAP PREGNANT WOMEN BY SUBGROUP: 2010-12



- 1.7% of pregnant women age <25
- 0.6% of pregnant women age 25-34
- 0.5% of pregnant women age 35+
- 1.6% of pregnant women with less than a high school education
- 1.7% of pregnant women with a high school education
- 0.6% of pregnant women with more than a high school education

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SUBSECTION 2: BIRTH

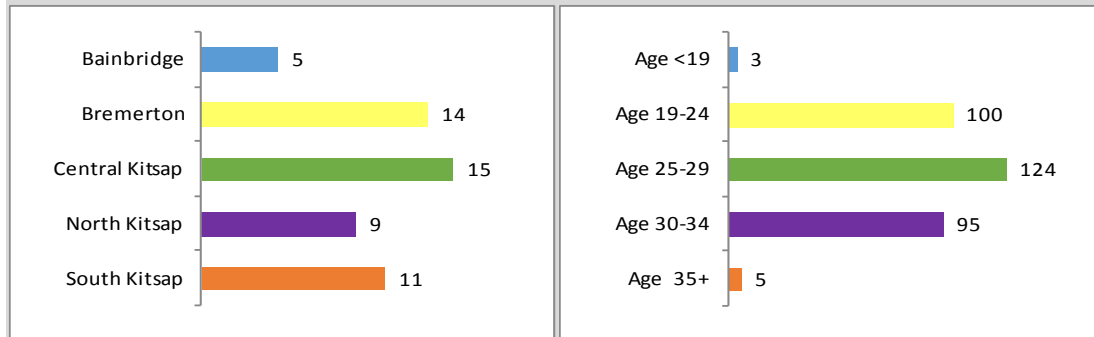
E.2.1. LIVE BIRTH RATES PER 1,000 POPULATION

Numerator is all live births; denominator is total population.

Source: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	15 per 1,000	13 per 1,000	DECREASED
KITSAP COUNTY	16 per 1,000	12 per 1,000	DECREASED
KITSAP COMPARED TO WA	higher	lower	

KITSAP BIRTH RATES PER 1,000 POPULATION BY SUBGROUP: 2010-12



E.2.2. KITSAP COUNTY RESIDENT BIRTHS BY PLACE OF BIRTH, 2010-12

Source: Birth Certificate Database, WA State Department of Health.

- 97% at a hospital
- 3% Midwives/ Birthing Centers
- <1% At Home

PROPORTION OF KITSAP BIRTHS BY HOSPITAL:

- Harrison Medical Center: 57%
- Naval Hospital: 25%
- St. Joseph Hospital Tacoma: 4%
- Tacoma General Hospital: 3%
- Madigan Army Medical Center: 2%
- Swedish Hospital: 2%

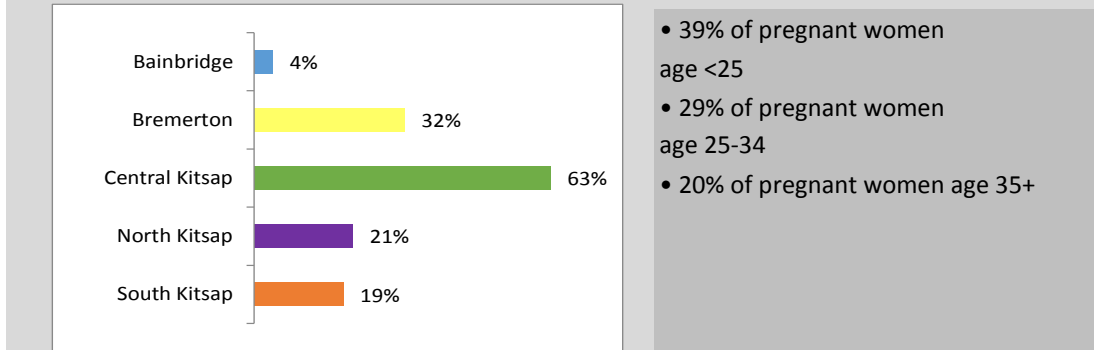
E.2.3. BIRTHS TO MILITARY WOMEN

Military is defined as being on active duty, married to a spouse on active duty, or giving birth in a federal facility.

Source: Birth Certificate Database, WA State Dept of Health Center for Health Statistics. Trend years: 1998 to 2012.

	1998	2012	TREND
WA STATE	5%	6%	INCREASED
KITSAP COUNTY	28%	31%	--
KITSAP COMPARED TO WA	higher	higher	

KITSAP PREGNANT WOMEN BY SUBGROUP: 2012



- 39% of pregnant women age <25
- 29% of pregnant women age 25-34
- 20% of pregnant women age 35+

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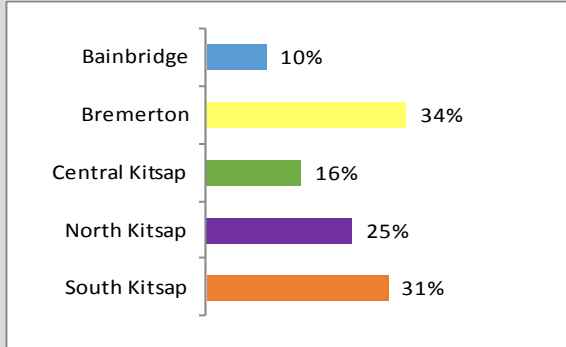
E.2.4. BIRTHS TO UNMARRIED WOMEN

Source: Birth Certificate Database, WA State Dept of Health Center for Health Statistics.

Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	26%	33%	INCREASED
KITSAP COUNTY	21%	28%	INCREASED
KITSAP COMPARED TO WA	lower	lower	

KITSAP PREGNANT WOMEN BY SUBGROUP: 2010-12



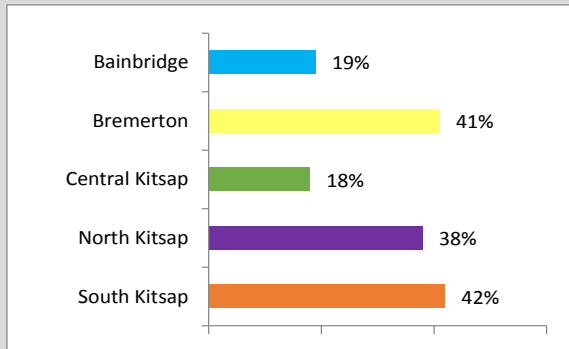
- 47% of pregnant women age <25
- 19% of pregnant women age 25-34
- 15% of pregnant women age 35+

E.2.5. BIRTHS TO LOW INCOME WOMEN (MEDICAID REIMBURSED)

Source: First Steps Database, WA State Department of Social and Health Services. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	41%	49%	INCREASED
KITSAP COUNTY	26%	37%	INCREASED
KITSAP COMPARED TO WA	lower	lower	

KITSAP BIRTHS BY SUBGROUP: 2010-12



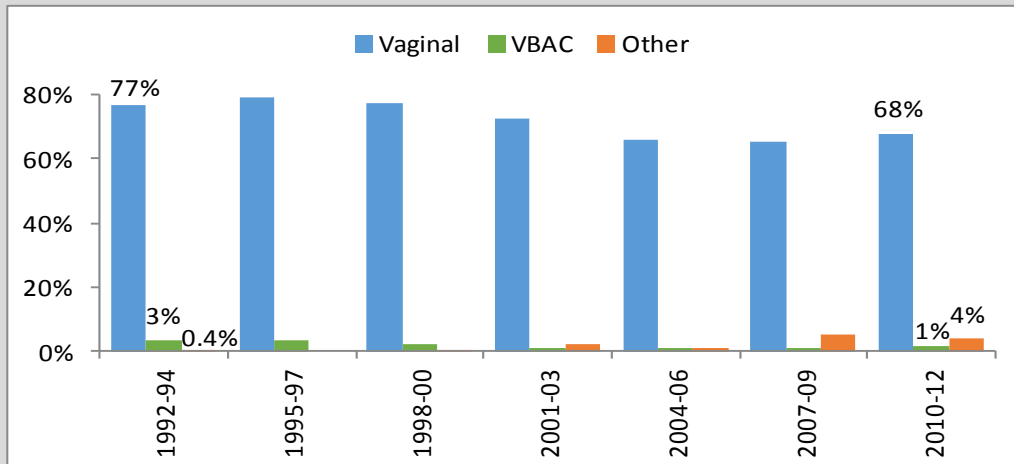
- 89% of births to women age <18
- 84% of births to women with less than high school education
- 76% of births to women smoking during pregnancy
- 51% of births to women with 3rd trimester or no prenatal care

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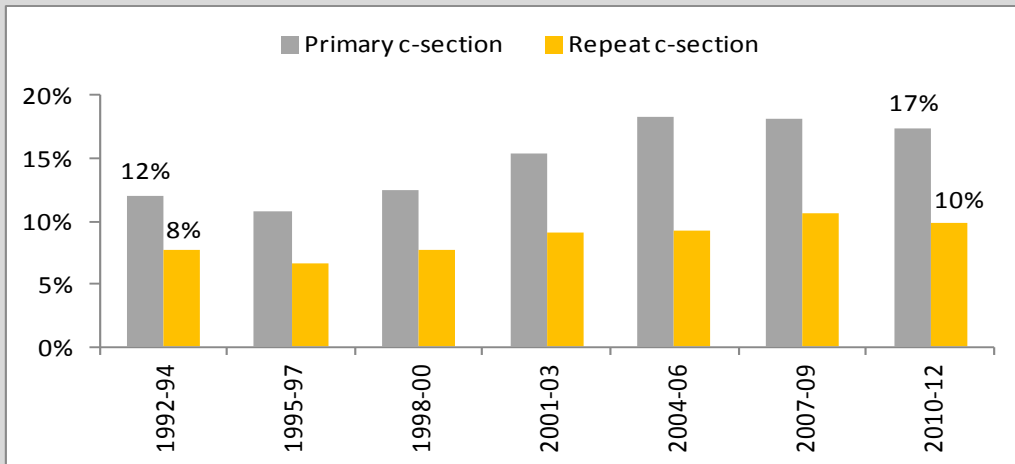
E.2.6. DELIVERY METHOD OF BIRTHS

Source: Birth Certificate Database, WA State Department of Health Center for Health Statistics.

VAGINAL BIRTHS:



C-SECTION BIRTHS:



E.2.7. C-SECTIONS IN UNCOMPLICATED BIRTHS

Uncomplicated birth is a singleton, vertex, term birth. Includes both primary and repeat c-sections.

Source: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	15%	27%	
KITSAP COUNTY	16%	26%	
KITSAP COMPARED TO WA	worse	better	

KITSAP BIRTHS BY SUBGROUP: 2010-12

- 21% age <25
- 27% age 25-34
- 34% age 35+
- 28% with less than high school education
- 24% with high school education
- 26% with more than high school education

KITSAP BIRTHS BY SUBGROUP: 2012

- 30% of births not induced and/or augmented

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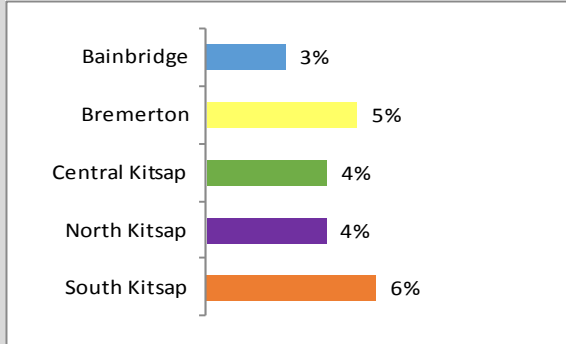
E.2.8. LOW BIRTH WEIGHT

Low birth weight is singleton live births with weight less than 2500 grams (5.5 pounds).

Source: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	4%	5%	
KITSAP COUNTY	4%	5%	
KITSAP COMPARED TO WA	same	same	

KITSAP BIRTHS BY SUBGROUP: 2010-12



- 5% age <25
- 5% age 25-34
- 7% age 35+

- 7% with less than high school education

- 6% on Medicaid

- 10% of those who smoked prenatally

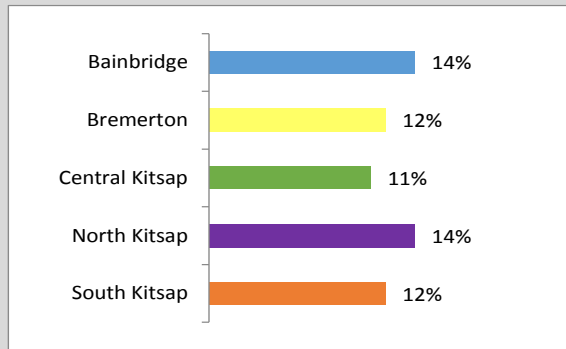
E.2.9. HIGH BIRTH WEIGHT

High birth weight is singleton live births with weight above 4000 grams (8.8 pounds).

Source: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	14%	11%	
KITSAP COUNTY	16%	12%	
KITSAP COMPARED TO WA	worse	worse	

KITSAP BIRTHS BY SUBGROUP: 2010-12



- 10% age <25
- 13% age 25-34
- 14% age 35+

- 10% with less than high school education

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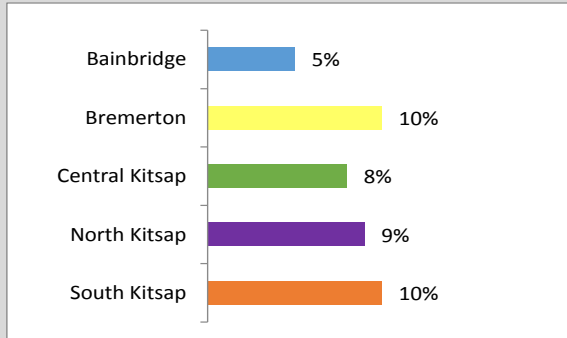
E.2.10. PRETERM BIRTHS

Preterm births are those that occur before 37 weeks of gestation.

Source: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	9%	10%	
KITSAP COUNTY	7%	9%	--
KITSAP COMPARED TO WA	better	same	

KITSAP BIRTHS BY SUBGROUP: 2010-12



- 9% age <25
- 9% age 25-34
- 12% age 35+
- 12% with less than high school edu
- 10% on Medicaid
- 8% of singleton births

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SUBSECTION 3: POSTPARTUM**

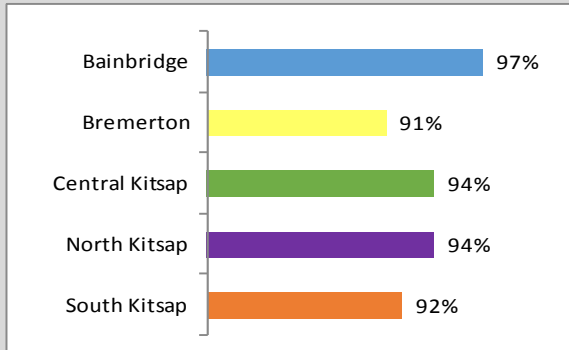
E.3.1. BREASTFEEDING

Infant was being breastfed immediately after birth.

Source: Birth Certificate Database, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	90%	93%	
KITSAP COUNTY	87%	93%	
KITSAP COMPARED TO WA	lower	same	

KITSAP PREGNANT WOMEN BY SUBGROUP: 2010-12



- 92% age <25
- 93% age 25-34
- 93% age 35+
- 86% with less than high school education
- 88% on Medicaid

E.3.2. POSTPARTUM DEPRESSION

Postpartum depression was assessed using the Postpartum Depression Screening Scale (PDSS).

Source: Welcome Home Baby Program, Kitsap Public Health District.

KITSAP COUNTY 2008-2010:	Low-Income	Not Low-Income	Total
POSITIVE DEPRESSION SCREEN	28%	28%	28%

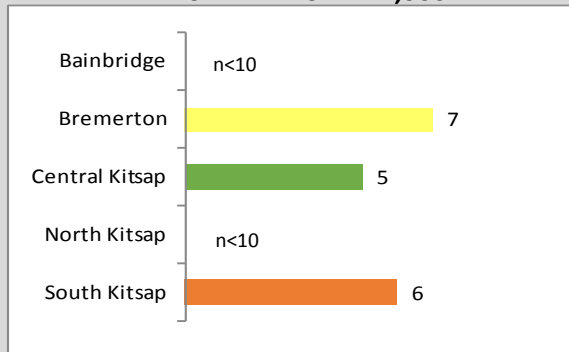
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E.3.3. INFANT MORTALITY RATES PER 1,000 LIVE BIRTHS

Source: Linked Birth and Death Certificate Databases, WA State Department of Health Center for Health Statistics. Trend years: 1992-94 to 2010-12.

	1992-94	2010-12	TREND
WA STATE	6 per 1,000	5 per 1,000	
KITSAP COUNTY	6 per 1,000	6 per 1,000	--
KITSAP COMPARED TO WA	same	same	

KITSAP RATES PER 1,000 LIVE BIRTHS BY SUBGROUP: 2008-12



CAUSE OF DEATH (# DEATHS)

- Perinatal conditions* (39)
- Accidents** (15)
- Congenital anomalies (14)
- Sudden Infant Death Syndrome (SIDS) (14)
- Other perinatal conditions (3)
- Infectious & parasitic diseases (2)
- Influenza, pneumonia, other resp. (2)
- Meningitis (1)

*includes: newborn affected by maternal factors and by complications of pregnancy, labor & delivery; disorders related to length of gestation & fetal malnutrition; intrauterine hypoxia & birth asphyxia; birth trauma; infections specific to the perinatal period; hemorrhagic & hematological disorders of newborn; syndrome of infant of a diabetic mother & neonatal diabetes mellitus; necrotizing enterocolitis of newborn; & hydrops fetalis not due to hemolytic disease. **includes accidental strangulation & suffocation in bed.

E.3.4. INFANT SLEEP-RELATED DEATHS (<1 YEAR)

Source: Child Death Review, Kitsap Public Health District. Only includes deaths that have been reviewed by the Child Death Review team after records have been obtained.

KITSAP COUNTY 2004-2013: # DEATHS % OF ALL DEATHS

CAUSE OF INFANT DEATH:	# DEATHS	% OF ALL DEATHS
SIDS	25	68%
ASPHYXIA	11	30%
OTHER	1	3%

RACE/ETHNICITY OF INFANT:

RACE/ETHNICITY OF INFANT:	# DEATHS	% OF ALL DEATHS
WHITE	23	62%
AIAN	3	8%
ASIAN or NHOPI	0	0%
BLACK	3	8%
MULTI-RACIAL	8	22%
HISPANIC, ANY RACE	2	5%

FACTORS RELATED TO SLEEP DEATH (CATEGORIES NOT MUTUALLY EXCLUSIVE)

NOT IN A CRIB/BASSINETTE	84%
NOT SLEEPING ON BACK	49%
SLEEPING WITH OTHER PEOPLE	49%
UNSAFE BEDDING OR TOYS	19%
SLEEPING WITH OBESE ADULT	8%
ADULT WAS ALCOHOL IMPAIRED	5%
ADULT WAS DRUG IMPAIRED	5%
CAREGIVER FELL ASLEEP WHILE FEEDING	3%