

PUBLIC HEALTH

ALWAYS WORKING FOR A SAFER AND HEALTHIER WASHINGTON

Anencephaly Investigation Central Washington, 2010-2014

Advisory Committee Meeting October 20, 2014



Surveillance Update





Neural Tube Defects by Year of Delivery or Estimated Year of Delivery¹

	Number	Total births	Rate per 10,000 births	95% CI				
All Neural Tube Defects								
2010	7	8565	8.2	(3.3, 16.8)				
2011	7	8528	8.2	(3.3, 16.9)				
2012	10	8352	12.0	(5.7, 22.0)				
2013	12	8084	14.8	(7.7, 25.9)				
2014	13	na						
2015	1	na						
Total to date ²	50	na						
Anencephaly								
2010	6	8565	7.0	(2.6, 15.2)				
2011	4	8528	4.7	(1.3, 12.0)				
2012	9	8352	10.8	(4.9, 20.5)				
2013	9	8084	11.1	(5.1, 21.1)				
2014	8	na						
2015	1	na						
Total to date ²	37	na						

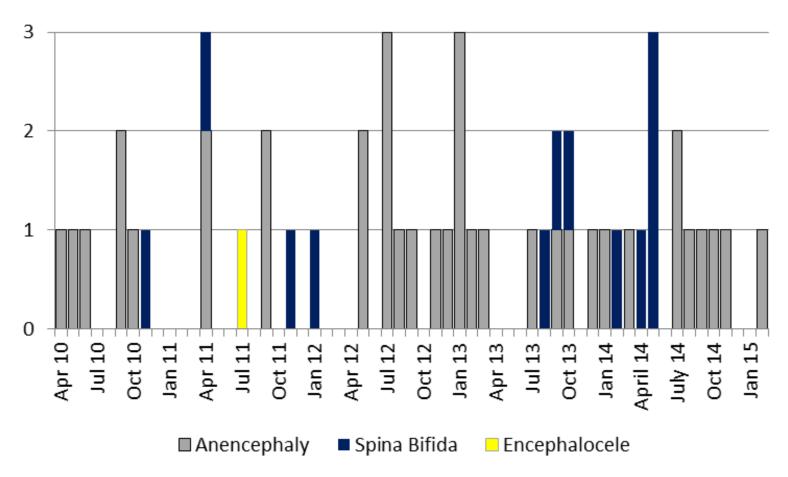
¹ Estimated year of delivery is used for cases terminated or delivered before 37 weeks gestation.



² Total to date reflects cases confirmed by October 17, 2014 with a delivery or estimated date of delivery in 2010-2015.



Neural Tube Defects by Month of Estimated Delivery Date*

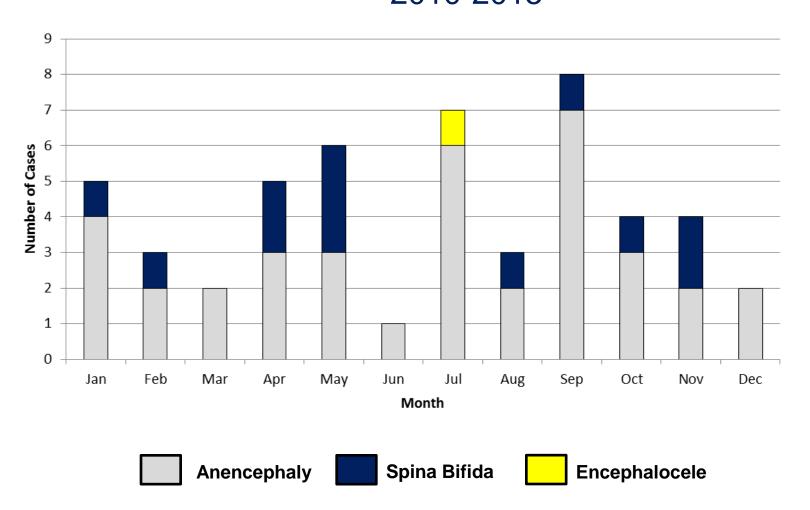


^{*}Estimated Delivery Date uses Delivery date for gestational age> 37 weeks and Estimated Delivery Date for gestational age< 37 weeks at delivery.



Cases were confirmed through October 17, 2014.

Neural Tube Defects by Month of Estimated Delivery Date* 2010-2015



^{*}Estimated Delivery Date uses Delivery date for gestational age> 37 weeks and Estimated Delivery Date for gestational age< 37 weeks at delivery.





Neural Tube Defects by County of Residence

	Total	Number	2010-2013	Rate per					
	Number ¹	2010-2013	births	10,000 births	95% CI				
All Neural Tube Defects									
Benton County	19	14	10,171	13.8	(7.5, 23.1)				
Franklin County	9	7	6,698	10.5	(4.2, 21.5)				
Yakima County	22	15	16,660	9.0	(5.0, 14.9)				
3 County Area	50	36	33,529	10.7	(7.5, 14.9)				
Anencephaly									
Benton County	15	13	10,171	12.8	(6.8, 21.9)				
Franklin County	6	4	6,698	6.0	(1.6, 15.3)				
Yakima County	16	11	16,660	6.6	(3.3, 11.8)				
3 County Area	37	28	33,529	8.4	(5.5, 12.1)				



¹ Total number reflects cases confirmed by October 17, 2014 with a delivery or estimated date of delivery 2010-2015.



Investigation Update





Investigation Update

- We continue to work on logistics of interview study and now have interviewers on board. We also have our protocols and approvals in place and will begin in the next few weeks.
- We'll approach mothers of all infants with NTD (anencephaly and spina bifida) who had due date within two years of study start.
- Estimate approaching approximately 28 mothers among the 50 cases confirmed through October 2014.





Investigation Update

- Comparison data is still being worked out. We hope to use data collected as part of the NBDPS study.
- Hypotheses to further explore using interview data:
 - Folic acid supplementation and food folate
 - Public vs private water source, and water use
 - Nitrates in drinking water, food and nitrosatable drug exposures
 - Parental agricultural occupations
 - Household pesticide use





Prevention Update





Prevention Activities

- Convened monthly prevention call with representation from state and local public health, perinatal coordinators and related non-profits to coordinate efforts.
- Provider Outreach
 - Incorporating messages from our blast fax into other meetings and interactions with providers in Yakima, Benton and Franklin counties.
 - Grand Rounds scheduled at UW in December.
 - Continue to look for opportunities to get our messages distributed





Prevention Activities

- Public Outreach
 - Continue to update Anencephaly investigation web page on Dept .of Health website.
 - Hispanic Commission/Department of Health radio show on anencephaly scheduled for November.
 - March of Dimes has contacted news agencies across eastern Washington about banners available for download
 - Continue to identify new opportunities for messaging and distribution of materials, and are following up on them.





To provide comments or questions, please contact:

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