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# Early Hearing Detection and Intervention (EHDI) Program

*ONE: Screening*

*THREE: Diagnostic Evaluation*

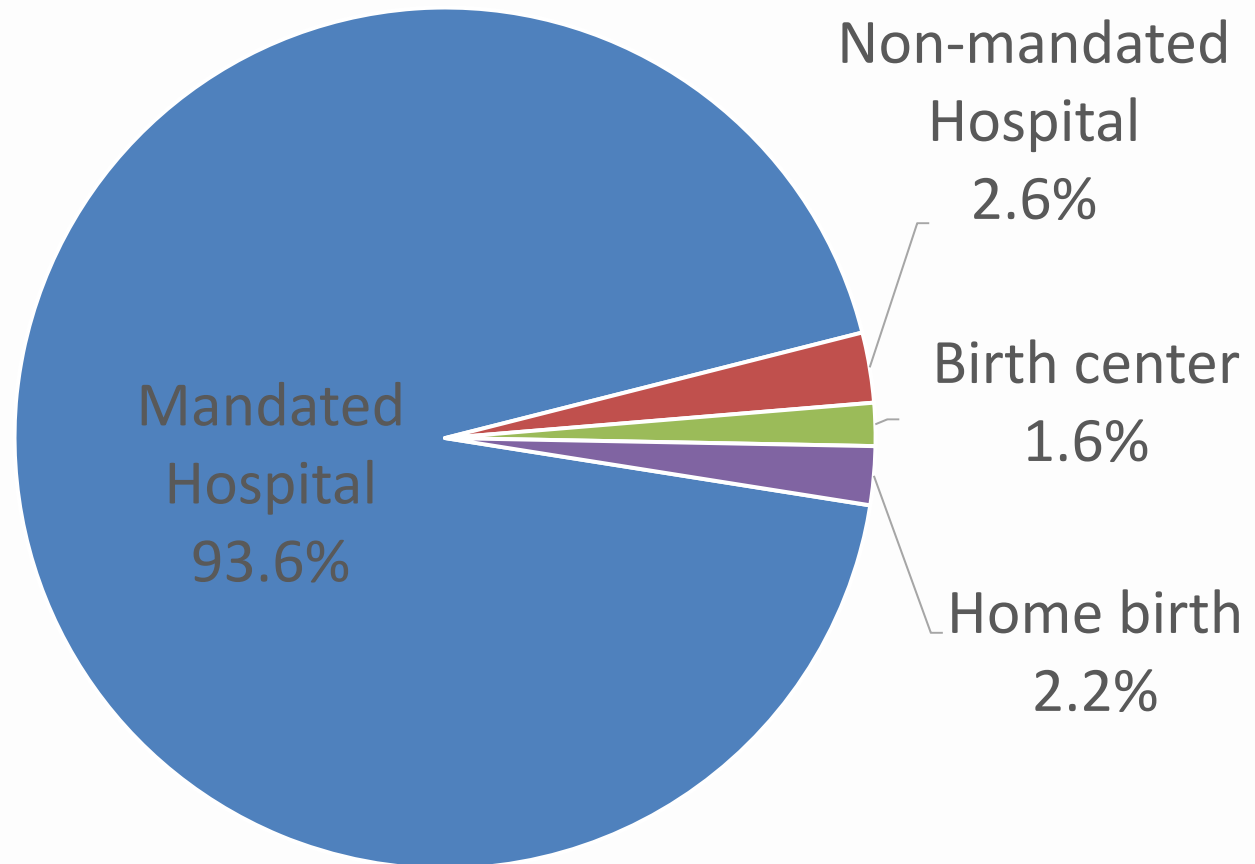
*SIX: Early Intervention*

April 2017 Quarterly Data Update

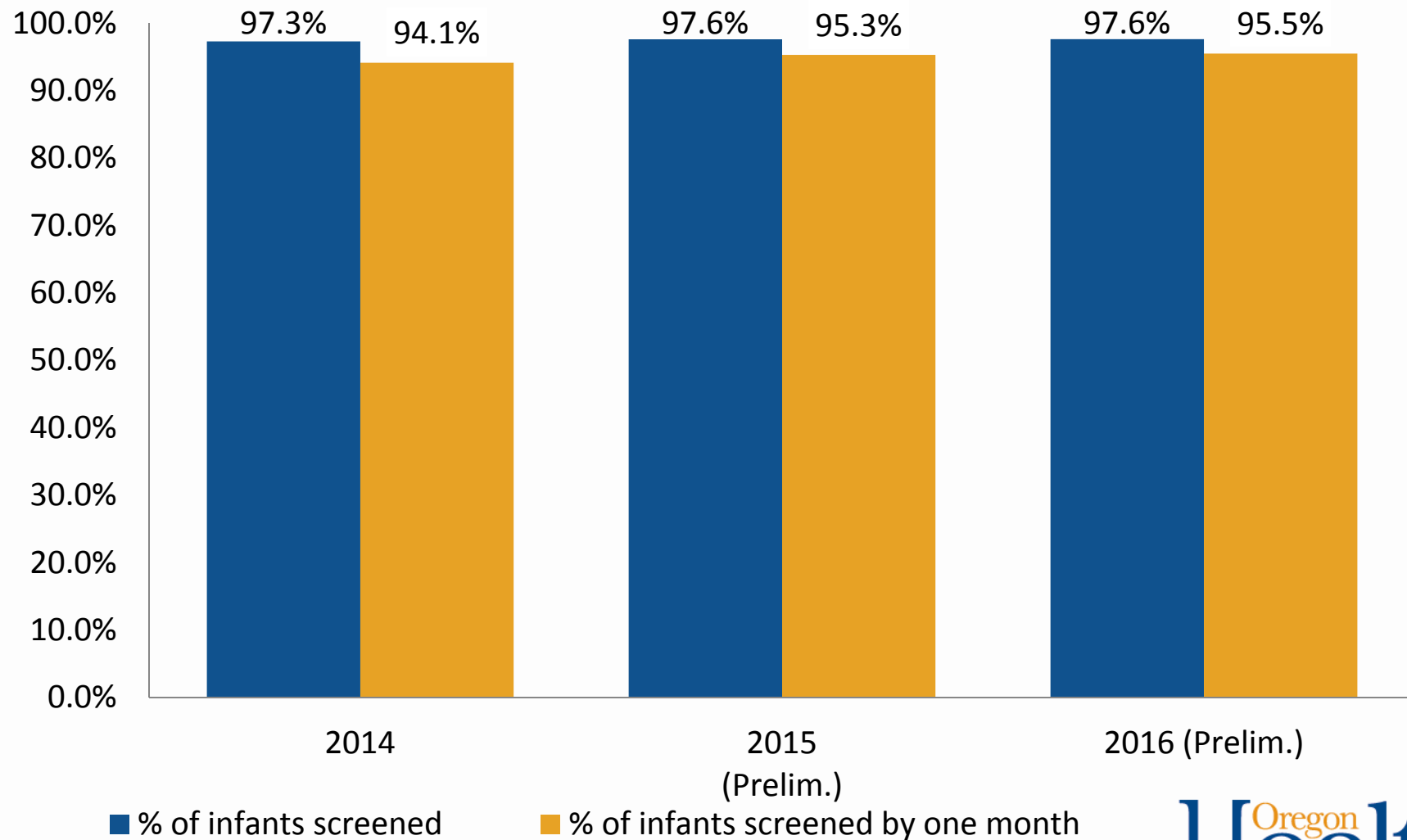


ONE

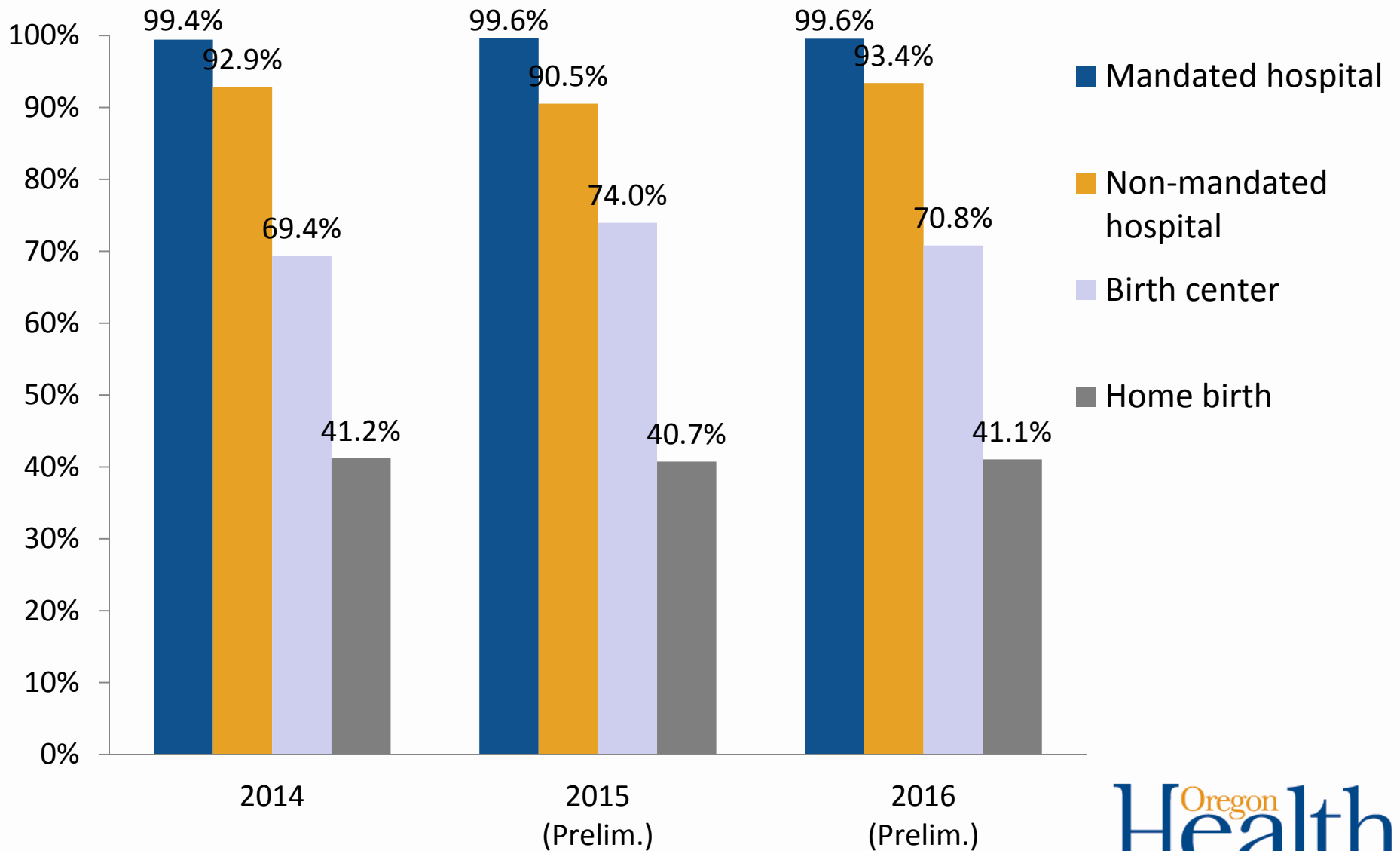
## Distribution of Births by Facility Type: 2015



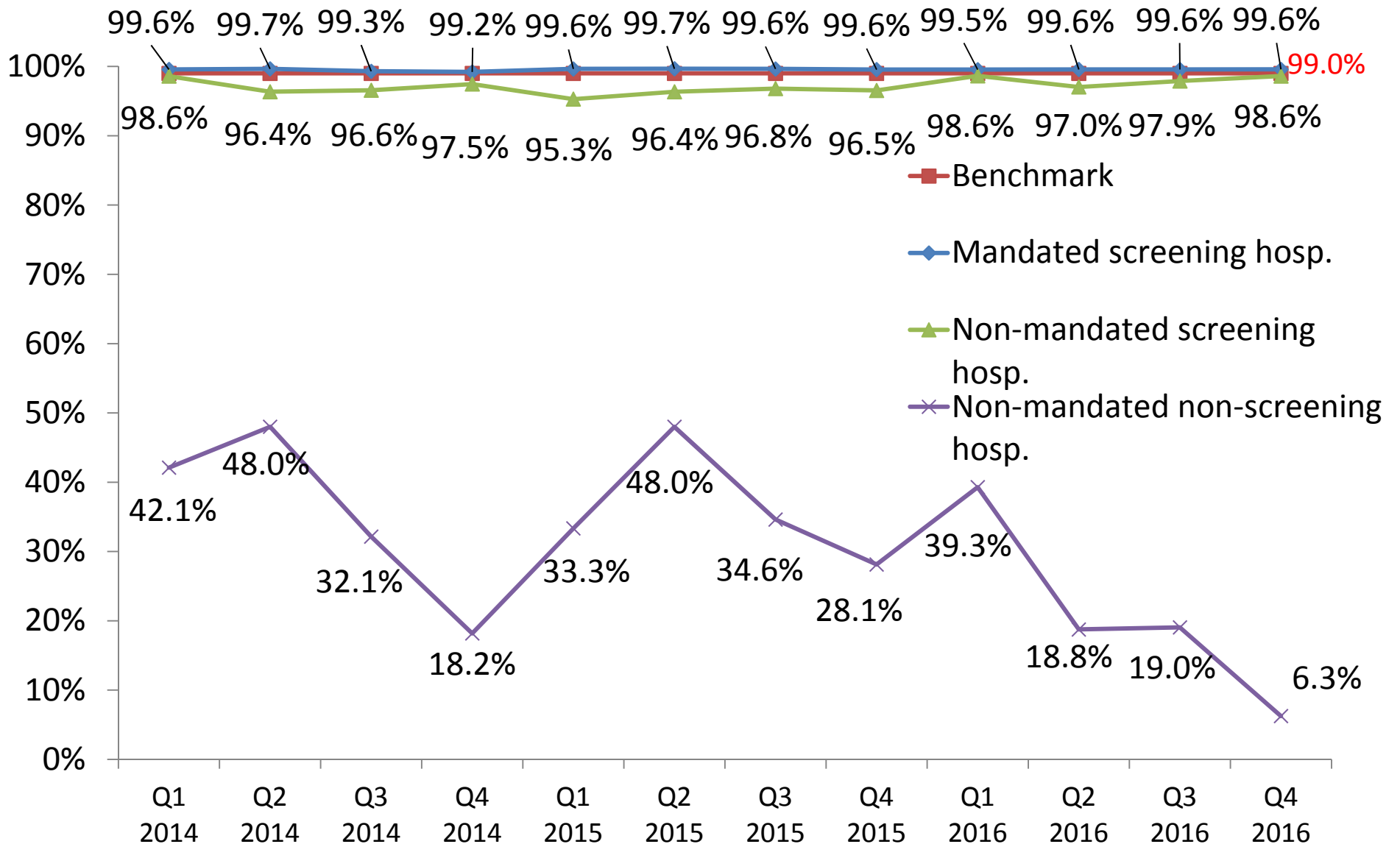
## Screening trends: 2014-2016



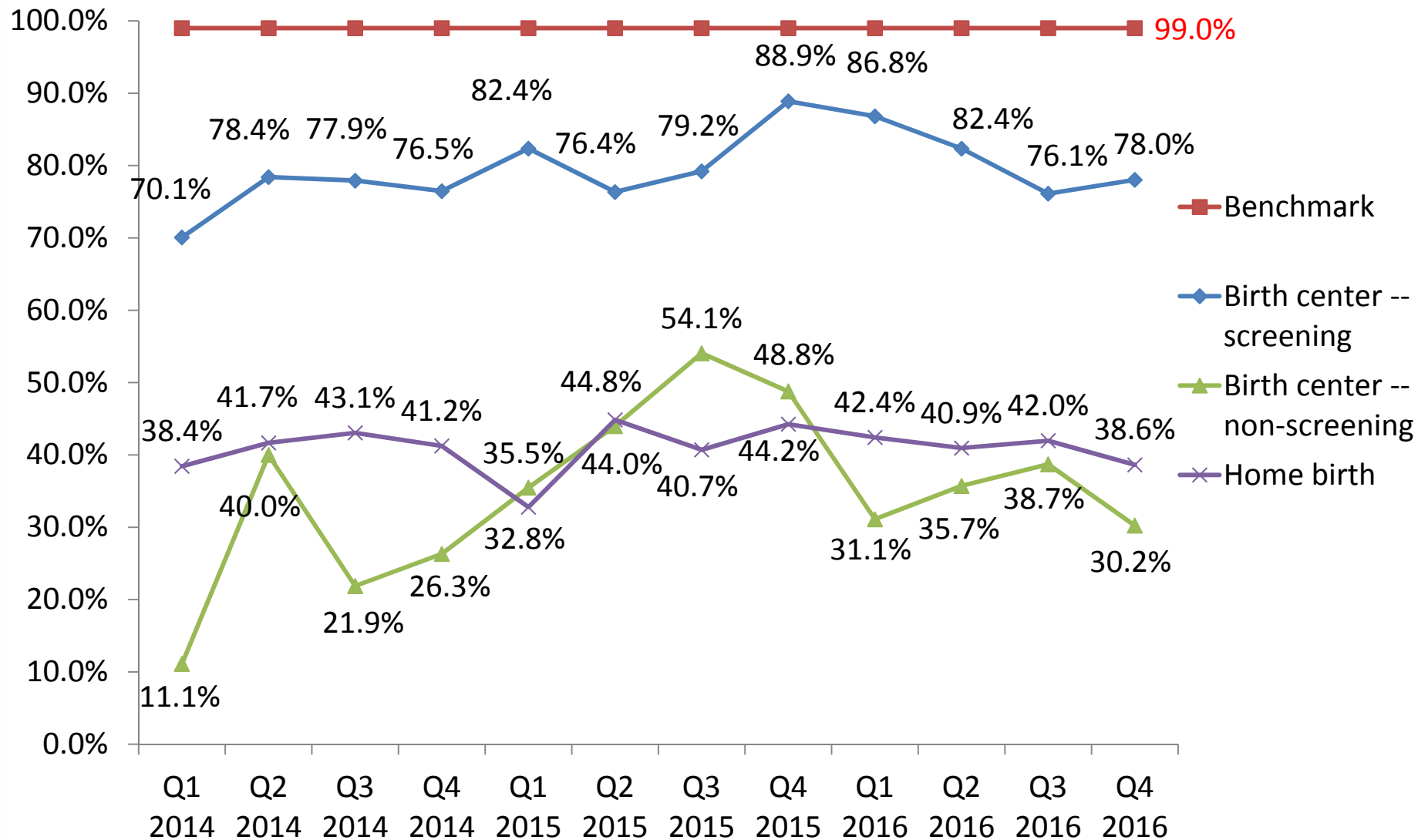
# Screening by birth facility types: 2014-2016



# Hospital Screening Rates: 2014-2016



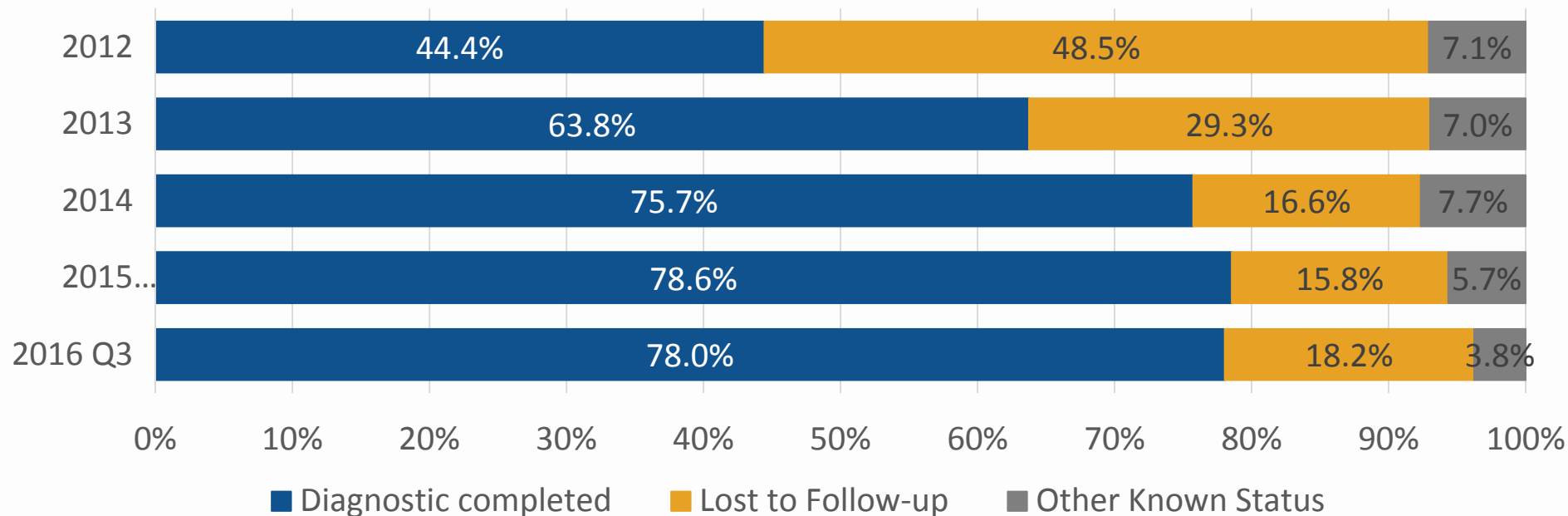
# Out of Hospital Screening Rates: 2014-2016



## Screening results – referred: 2014-2016

Percent of referred infants by region	2014		2015 (Prelim.)		2016 Q3	
	Count	Pct.	Count	Pct.	Count	Pct.
Total	1253	2.8%	1380	3.1%	1038	3.0%
Multnomah, Hood River, Wasco	376	3.3%	462	4.0%	311	3.6%
Columbia, Clatsop, Tillamook, Washington	121	1.7%	165	2.3%	146	2.8%
Clackamas	56	1.3%	116	2.6%	139	4.0%
Lane	160	4.3%	85	2.3%	45	1.6%
Yamhill, Polk, Marion	153	2.5%	174	2.9%	156	3.3%
Douglas, Josephine, Jackson, Klamath, Lake	123	2.5%	150	3.0%	87	2.3%
Sherman, Gilliam, Wheeler, Jefferson, Crook, Deschutes, Harney	58	2.4%	39	1.7%	29	1.6%
Benton, Linn, Lincoln, Coos, Curry	58	1.9%	57	1.9%	47	2.0%
Morrow, Umatilla, Union, Wallowa, Baker, Grant, Malheur	148	8.4%	132	7.7%	78	6.3%

## Diagnostic follow-up trends: 2012-2016

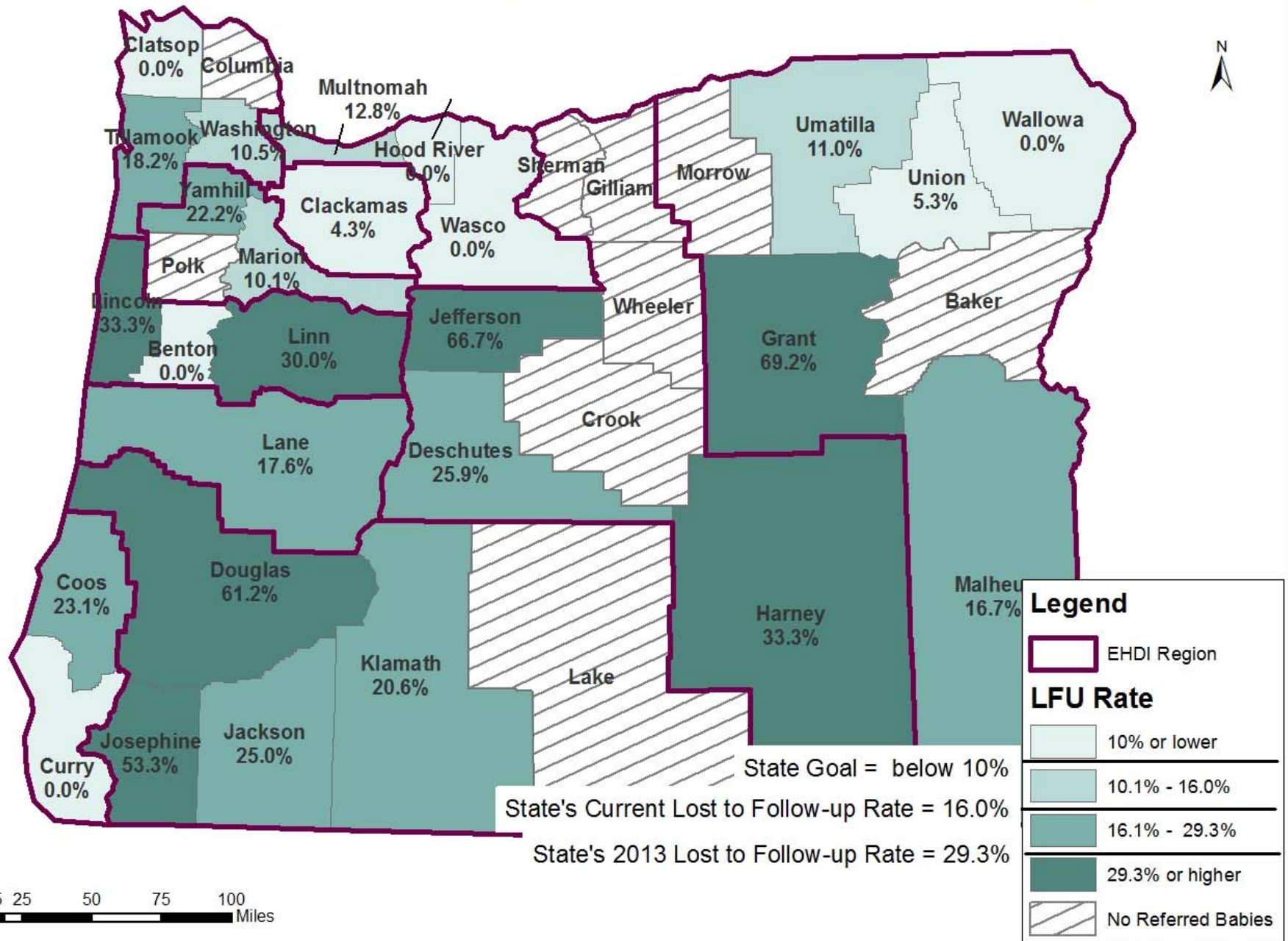


Year	Referred infants	Unresp*	Unk	Unable to contact	Family declined	Moved/ Non-res.	Others
2012	1287	623	1	0	2	26	63
2013	1363	395	0	4	16	38	41
2014	1253	97	97	14	53	34	9
2015 (Prelim.)	1380	85	69	64	37	28	13
2016 Q3	1038	55	108	26	12	20	7

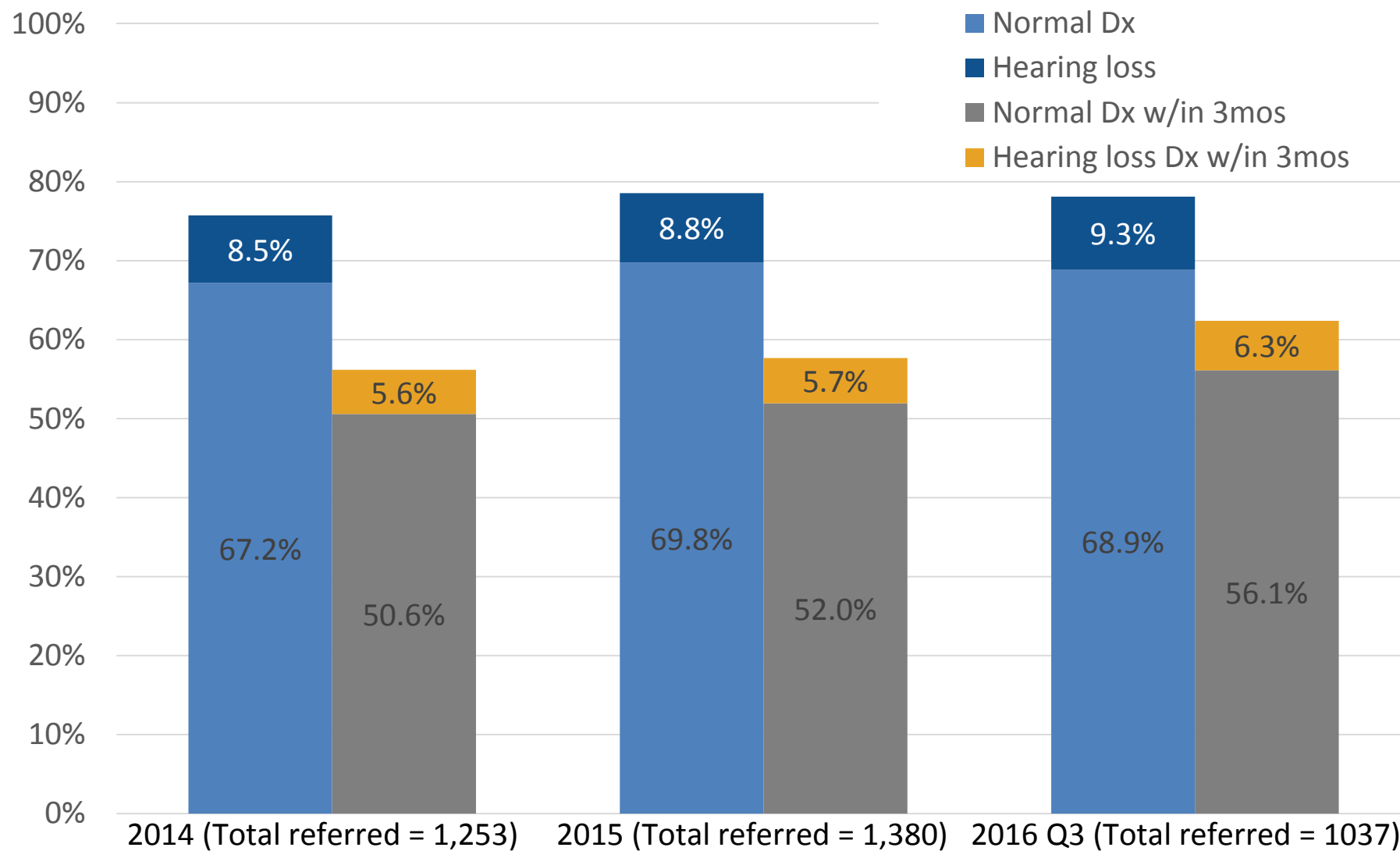
\* Category definition changed for 2014 CDC HSFS



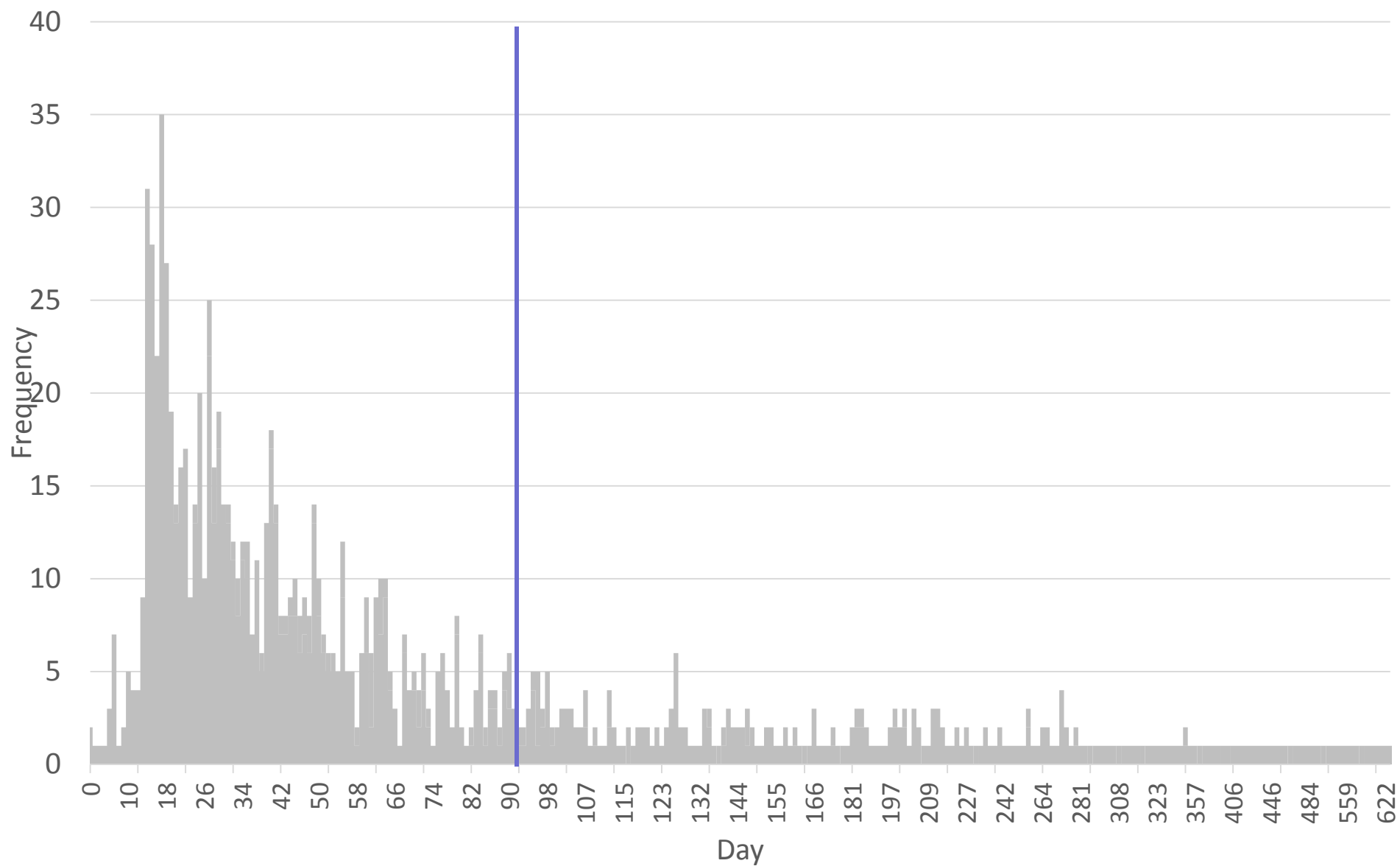
# Lost to Follow-up Rate by County of Birth, Preliminary 2015



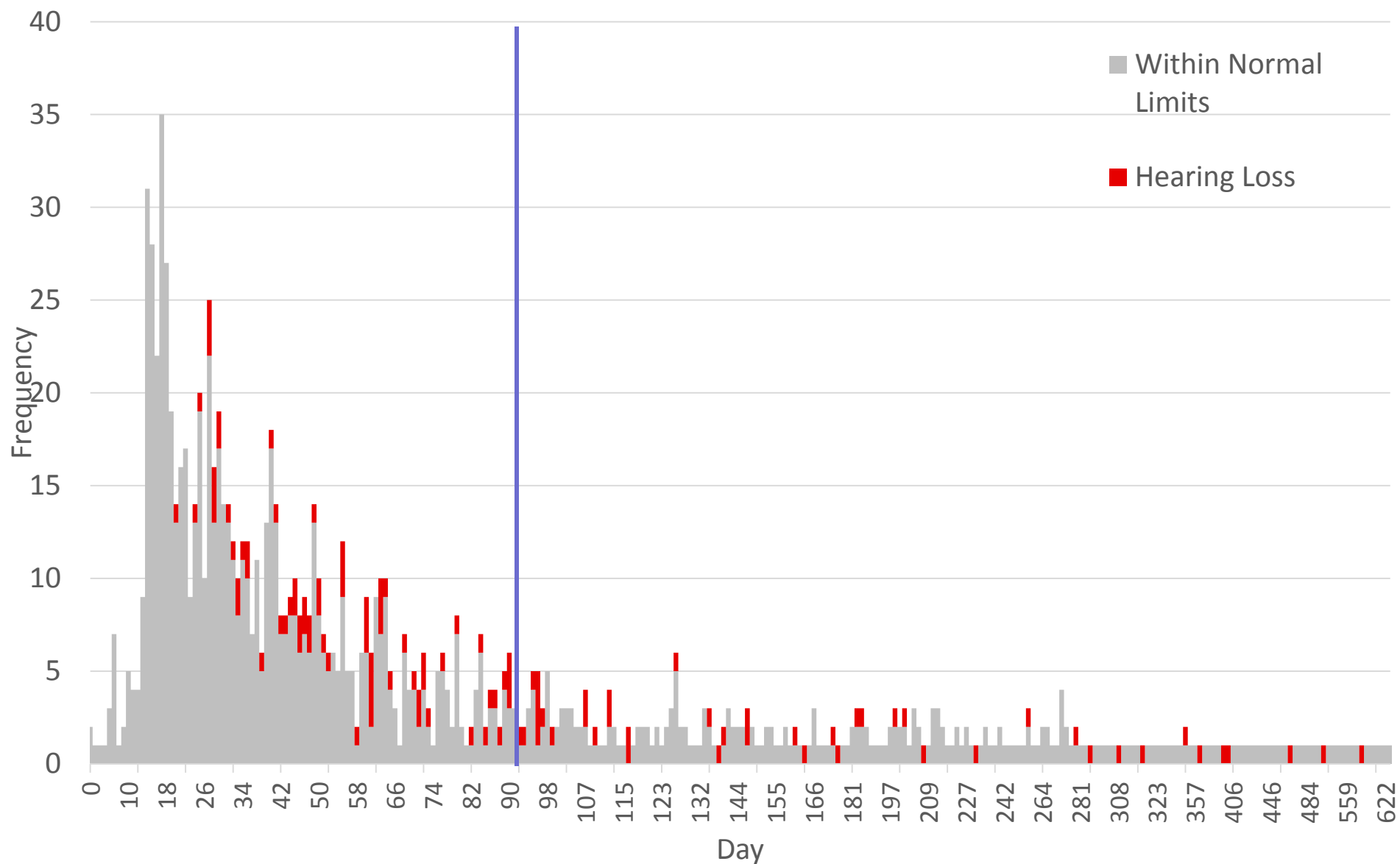
## Diagnostic trends 2014-2016: Percent Referred Babies with...



# Days to Complete Diagnosis among Referred Children, Birth Cohort 2015



# Days to Complete Diagnosis among Referred Children, Birth Cohort 2015



# Diagnostic Tail Analysis : Factors for Late Diagnosis

- Mother received WIC at delivery
- Marital status- not married
- Education- lower educational attainment
- Births at non-screening facilities
- Rural area residents

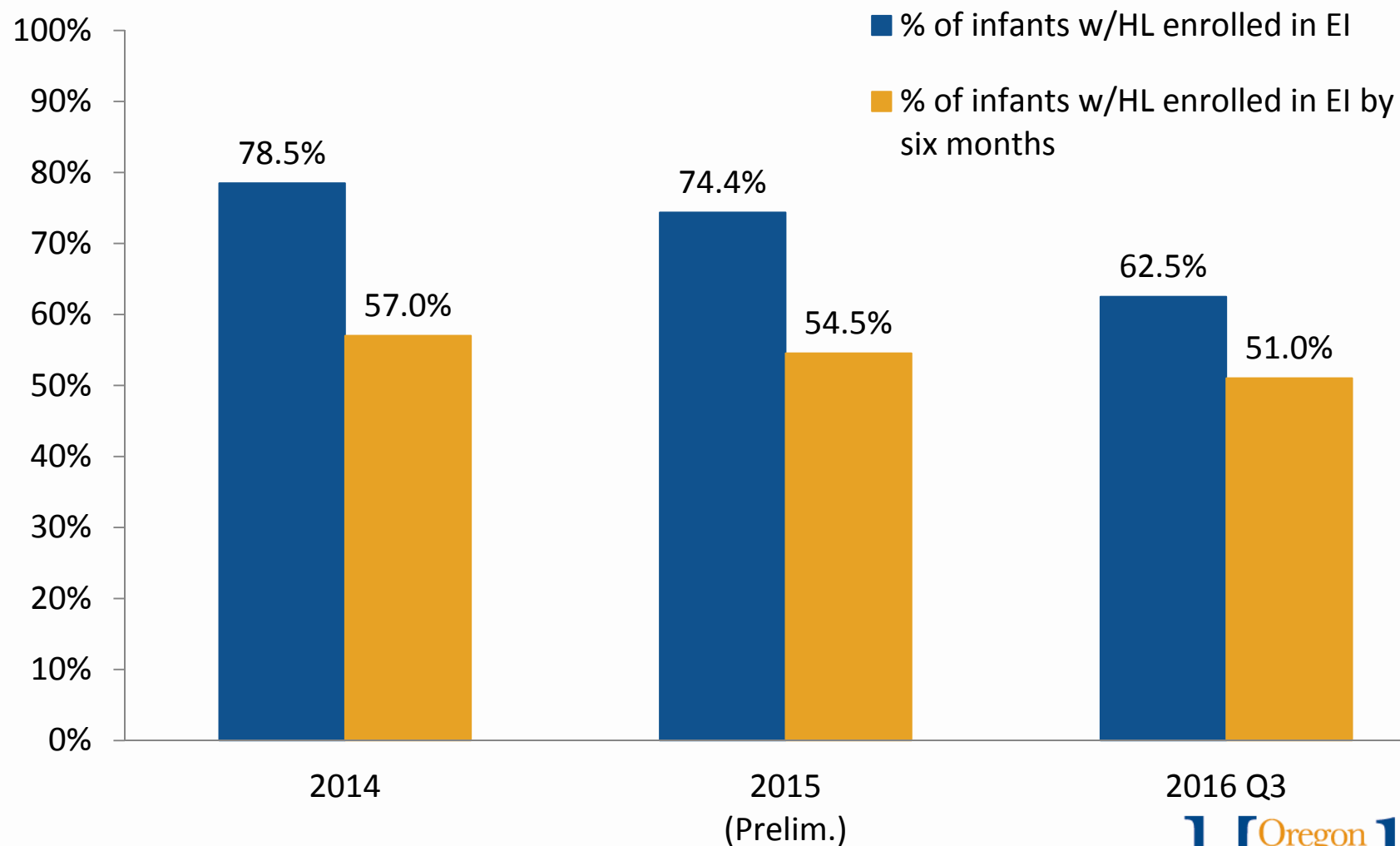
## Diagnostic follow up by region: 2014-2016

Percent of referred infants with diagnostic follow up by region of birth	2014		2015 (Prelim)		2016 Q3	
	Count	Pct.	Count	Pct.	Count	Pct.
Total	947	75.6%	1082	78.4%	807	77.8%
Multnomah, Hood River, Wasco	321	85.4%	384	83.1%	255	82.3%
Columbia, Clatsop, Tillamook, Washington	107	88.4%	139	84.2%	126	86.3%
Clackamas	35	62.5%	103	88.8%	129	92.8%
Lane	125	78.1%	68	80.0%	30	66.7%
Yamhill, Polk, Marion	125	81.7%	148	85.1%	130	83.3%
Douglas, Josephine, Jackson, Klamath, Lake	49	39.8%	77	51.3%	30	34.5%
Sherman, Gilliam, Wheeler, Jefferson, Crook, Deschutes, Harney	27	46.6%	19	48.7%	16	55.2%
Benton, Linn, Lincoln, Coos, Curry	46	79.3%	41	71.9%	33	70.2%
Morrow, Umatilla, Union, Wallowa, Baker, Grant, Malheur	112	75.7%	103	78.0%	58	74.4%

## Infants with hearing loss by region: 2015-2016

Hearing loss by year of birth and region	2015			2016 Q3		
	Total Births	Exp. Hearing Loss Pop.	Obs. Hearing Loss Pop.	Total Births	Exp. Hearing Loss Pop.	Obs. Hearing Loss Pop.
Total	45,969	46 - 138	116	34,848	35 - 105	90
Multnomah, Hood River, Wasco	11,676	12 - 35	42	8,746	9 - 26	31
Columbia, Clatsop, Tillamook, Washington	7,157	7 - 21	17	5,297	5 - 16	14
Clackamas	4,571	5 - 14	10	3,548	4 - 11	<10
Lane	3,893	4 - 12	10	2,916	3 - 9	<10
Yamhill, Polk, Marion	6,150	6 - 18	18	4,817	5 - 14	14
Douglas, Josephine, Jackson, Klamath, Lake	5,190	5 - 16	<10	3,945	4 - 12	<10
Sherman, Gilliam, Wheeler, Jefferson, Crook, Deschutes, Harney	2,392	2 - 7	<10	1,859	2 - 6	<10
Benton, Linn, Lincoln, Coos, Curry	3,174	3 - 10	<10	2,435	2 - 7	<10
Morrow, Umatilla, Union, Wallowa, Baker, Grant, Malheur	1,766	2 - 5	<10	1,285	1 - 4	<10

## EI enrollment trends: 2014-2016

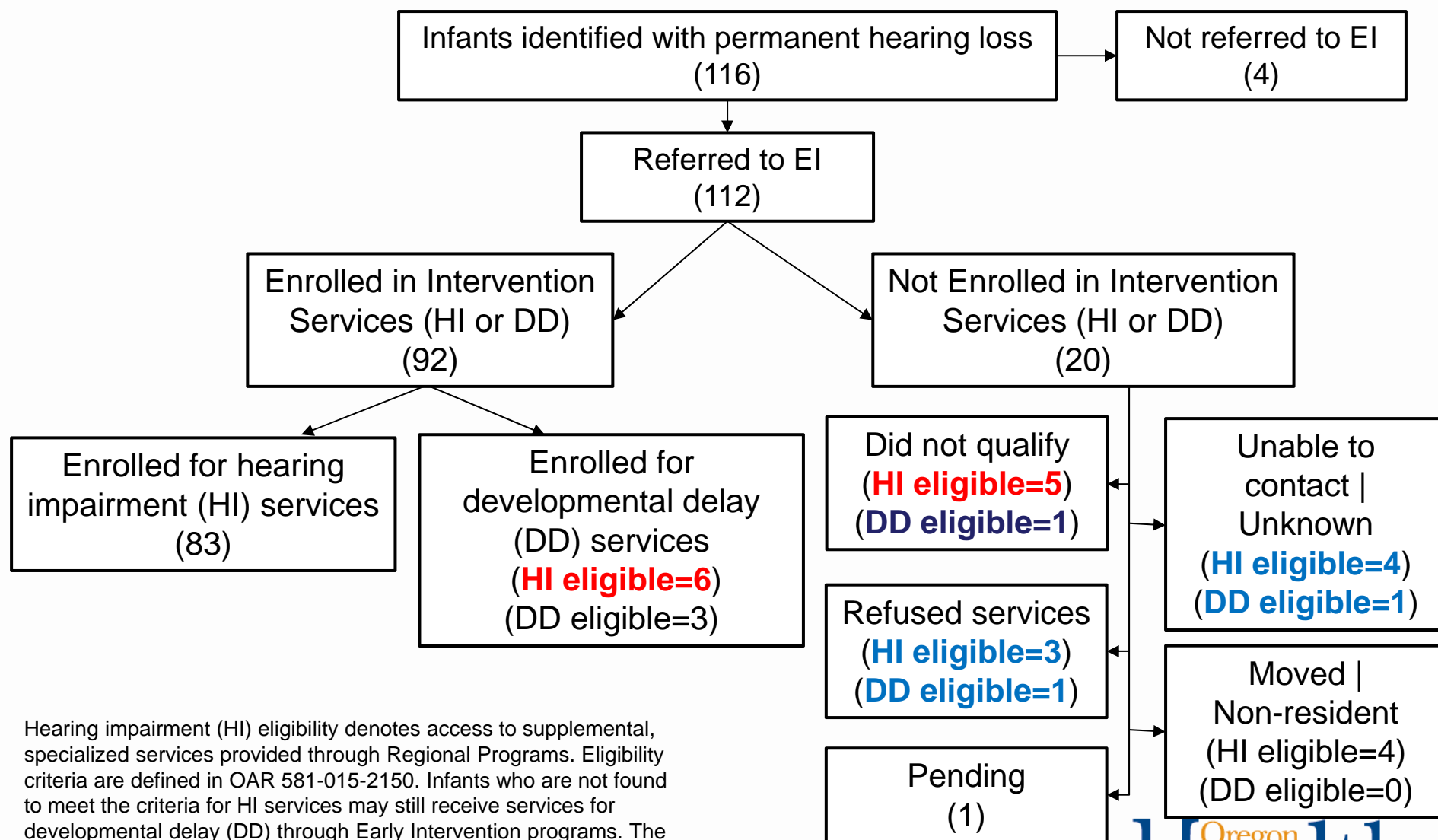




## El enrollment trends by region: 2014-2016

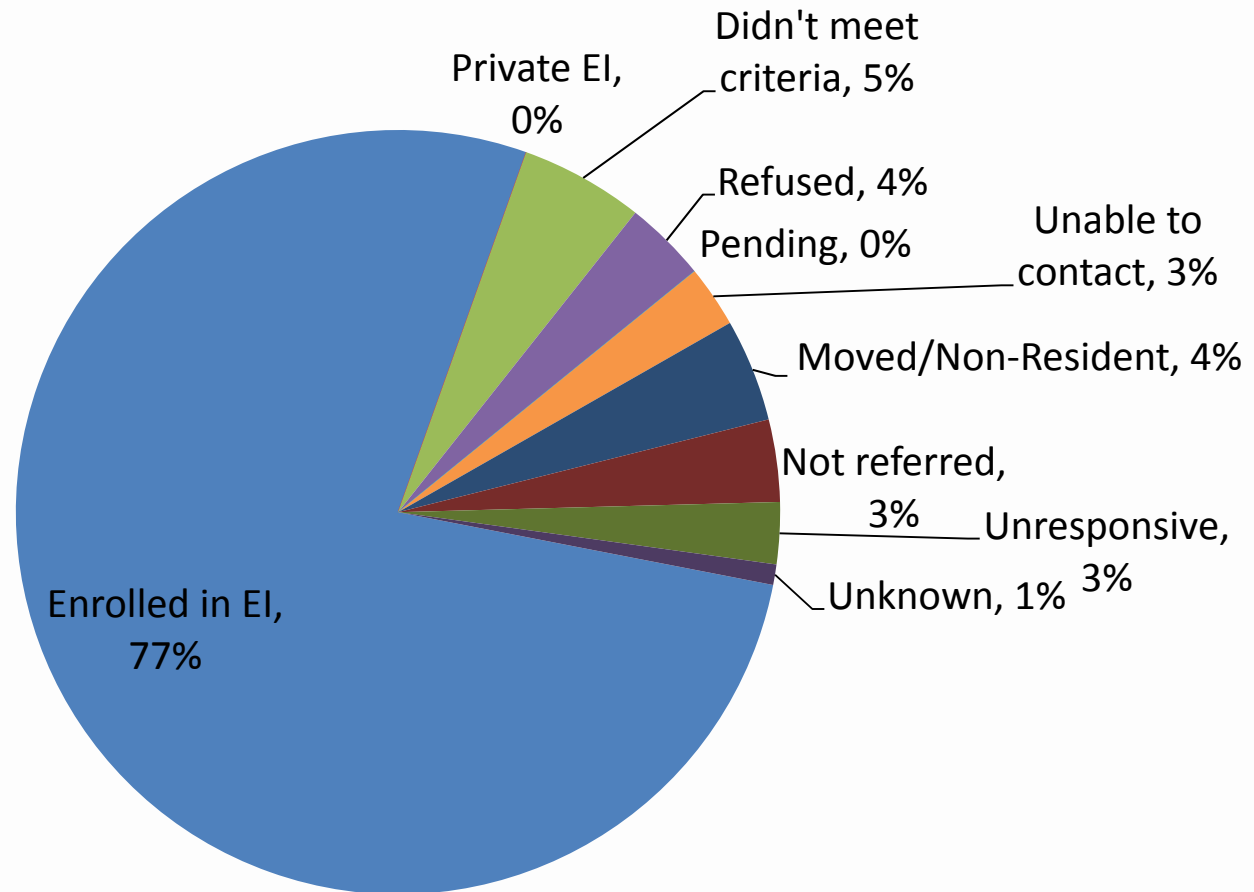
El enrollment by year of birth and region	2014		2015 (Prelim.)		2016 Q3	
	Count	Pct.	Count	Pct.	Count	Pct.
Total	82	79.6%	89	76.7%	59	65.6%
Multnomah, Hood River, Wasco	29	80.6%	32	76.2%	21	67.7%
Columbia, Clatsop, Tillamook, Washington	16	80.0%	13	76.5%	10	71.4%
Clackamas	<10	83.3%	<10	80.0%	<10	57.1%
Lane	<10	75.0%	<10	80.0%	<10	75.0%
Yamhill, Polk, Marion	14	77.8%	14	77.8%	<10	57.1%
Douglas, Josephine, Jackson, Klamath, Lake	<10	80.0%	<10	85.7%	<10	0.0%
Sherman, Gilliam, Wheeler, Jefferson, Crook, Deschutes, Harney	<10	0.0%	<10	33.3%	<10	66.7%
Benton, Linn, Lincoln, Coos, Curry	<10	88.9%	<10	100.0%	<10	87.5%
Morrow, Umatilla, Union, Wallowa, Baker, Grant, Malheur	<10	100.0%	<10	50.0%	<10	100.0%

## Enrollment Status for Early Intervention and Regional Services for Infants with Hearing Loss, Preliminary 2015

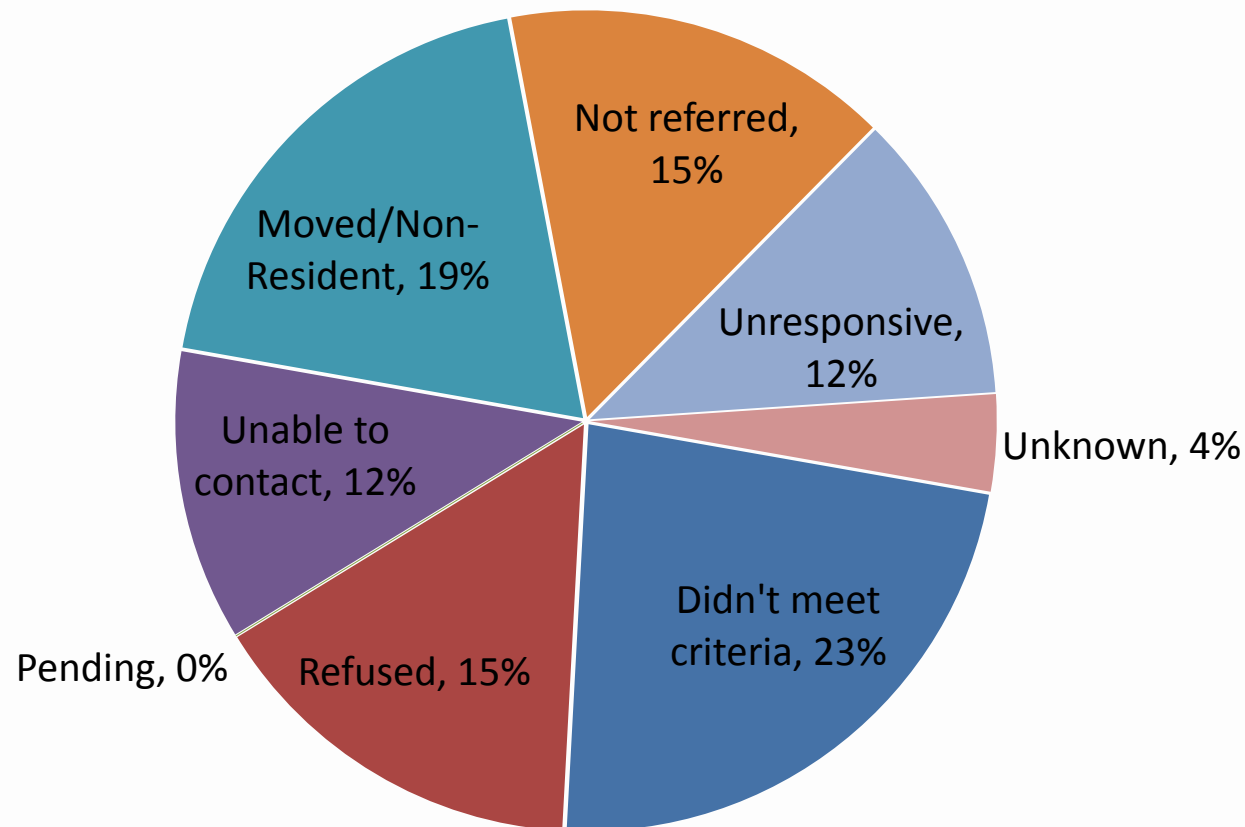


Hearing impairment (HI) eligibility denotes access to supplemental, specialized services provided through Regional Programs. Eligibility criteria are defined in OAR 581-015-2150. Infants who are not found to meet the criteria for HI services may still receive services for developmental delay (DD) through Early Intervention programs. The bold red counts are those infants who are unserved or underserved in contradiction with Oregon Administrative Rules.

# Early Intervention Enrollment Status, 2015 Birth Cohort



# Reasons Not Enrolled for Hearing Loss Infants, 2015 Birth Cohort



## Summary: Meeting Goals 1-3-6

Goals (1-3-6) Met Among Infants with Hearing Loss	2014	2015	2016
Screening goal	85.4%	94.0%	91.3%
Screening + diagnostic goals	54.4%	60.3%	68.3%
Screening + diagnostic + EI enrollment goals	44.7%	40.5%	41.3%

**Questions??**  
**Thank you!**