

42nd Annual Oregon Rural Health Conference





October 1-3, 2025

Creating an Action Plan for Rural Maternal Health in Oregon

Silke Akerson, MPH, Oregon Perinatal Collaborative Leonardo Pereira, MD, OHSU

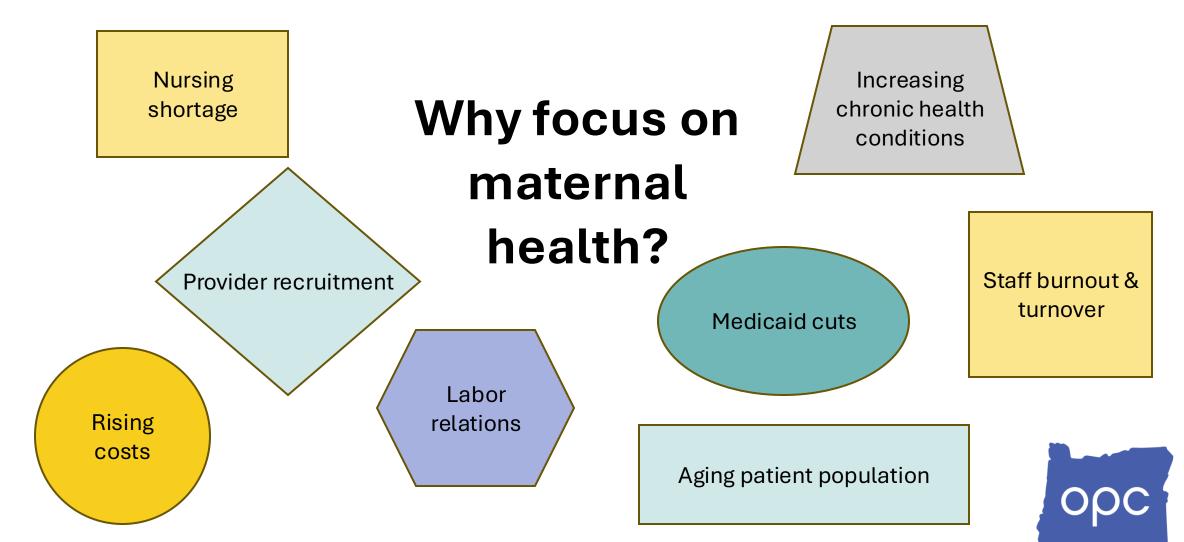


Creating action plans for rural maternal health in Oregon

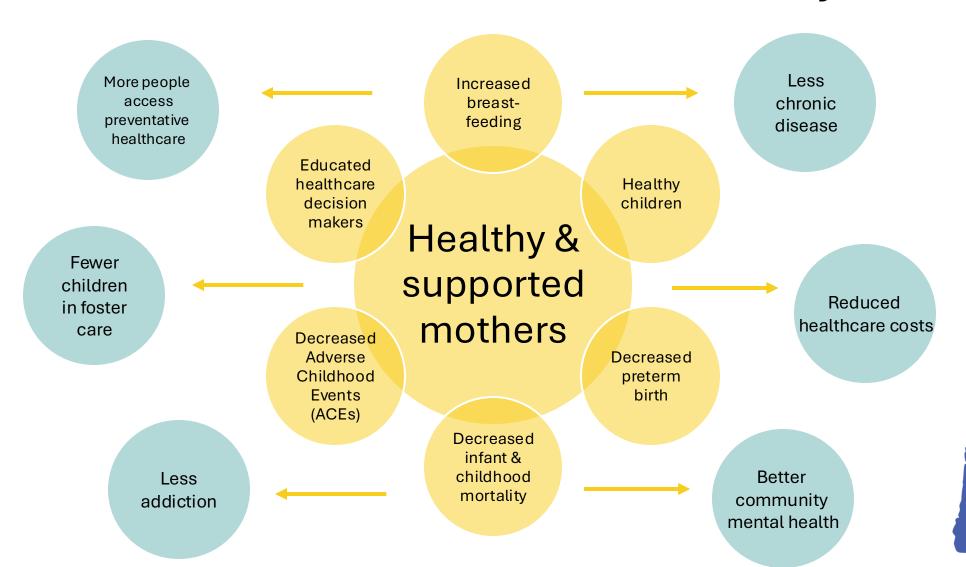
2025 Oregon Rural Health Conference

Silke Akerson, MPH, CPM and Leo Pereira, MD, MCR

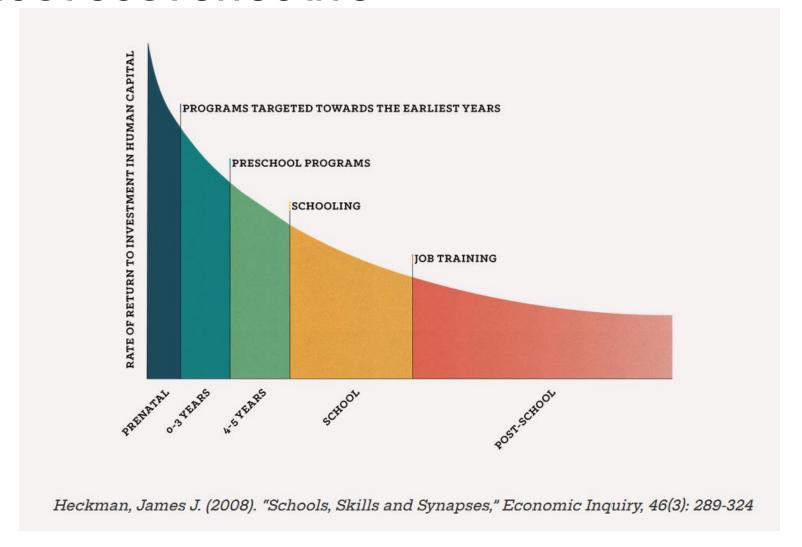
With so many competing demands...



Maternal health is central to community health



Investments in the prenatal period & 1st year of life are most cost effective



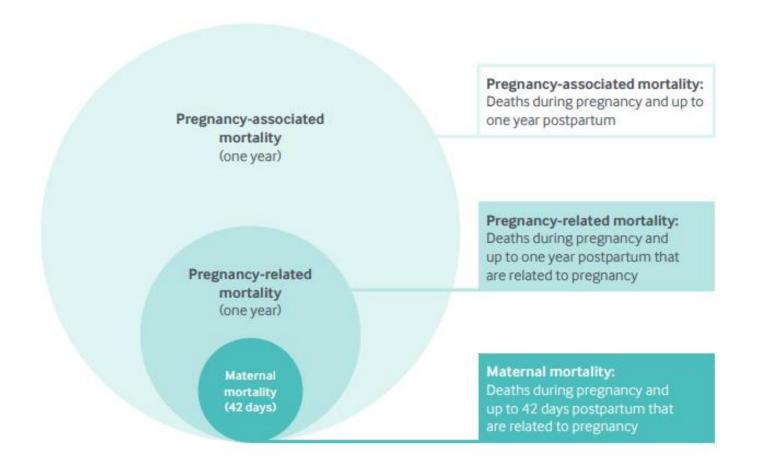


These are all parts of the maternal health system



US Maternal Health: Key Terms on Maternal Mortality

What do we mean by maternal mortality?





US Maternal Health Maternal Mortality/ Pregnancy Related Death



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Rural Maternal Health in the US

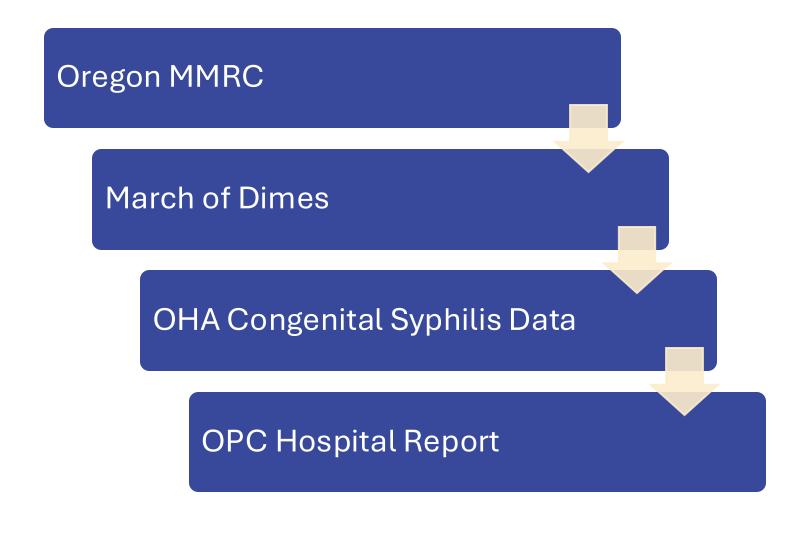
- Higher rates of:
 - Maternal mortality (RR = 1.93)
 - Severe maternal morbidity
 - ICU admission (RR=1.14)
- Lower rates of:
 - Insurance coverage
 - Access to behavioral health care
 - Access to labor & delivery services

Rural moms have 2X higher risk of mortality

It doesn't have to be this way



Oregon Maternal Health: How are we doing?





Oregon births by county - 2024

380 769 37 5,731 8,945 335 3,922 886 181 4,628 238 165 713 27 1.046 13 3,139 2,370 386 797 527 41 54 731 716 2,271

2024 Fast Facts:

- 39, 582 births
- 95% of births in a birthing hospital
- 46 Birthing Hospitals
- Lowest annual hospital volume < 30
- Highest annual hospital birth volume >3,400
- Counties in red without a birthing hospital



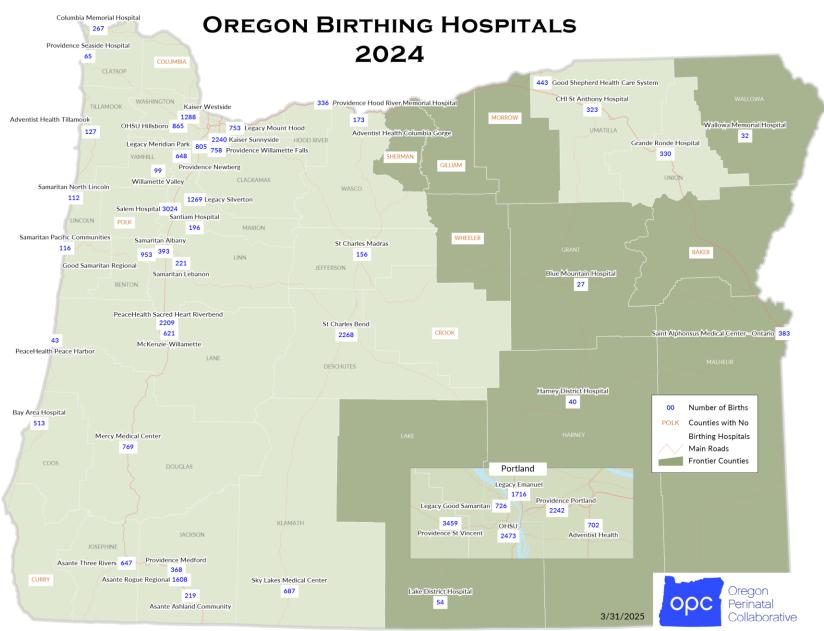
Data Source 2024 Prelim Data:

https://visual-

data.dhsoha.state.or.us/t/OHA/views/ Oregonvear-to-

datepreliminarybirthdashboard/Preliminarybirths?%3AisGuestRedirectFromVizportal=v&%3Aembed=v

Births by County where they occurred, not by county of residence for who gave birth





Oregon Maternal Health Oregon Maternal Mortality Review Committee (MMRC)

- Oregon Health Authority Public Health Division
- Staffed by OHA Family and Child Health
- Established in 2018
- 15 Governor appointed multidisciplinary members
 - Clinical and community-based expertise
- Started reviewing cases in 2020
 - 92 Pregnancy associated cases identified for review
 - 20 false positives & 3 out of scope
 - 69 Pregnancy Associated deaths from 2018-2021 reviewed by committee



Oregon Maternal Health: Oregon MMRC 2018-2021 Maternal Deaths

Of the 69 deaths reviewed, 32 (46%) were pregnancy related

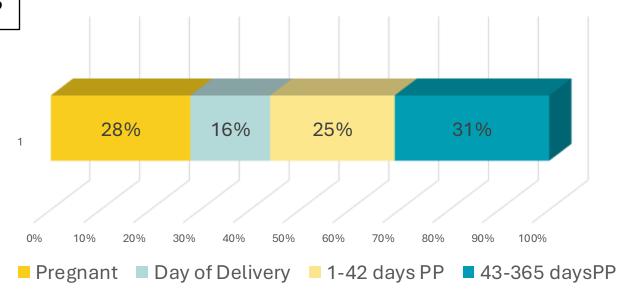
National Comparison 2017-2019 (n=1,018)

- 80% preventable
- 30% 43-365 days PP

Of the 32 Pregnancy Related Cases

72% Were Potentially Preventable

Timing of Pregnancy Related Deaths-Oregon





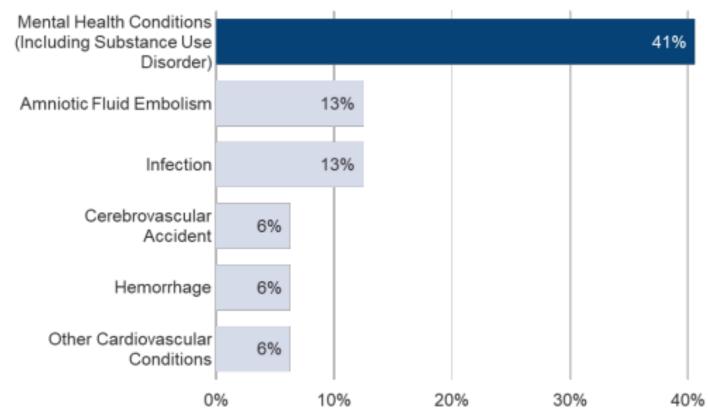
Oregon MMRC 2018-2021 Maternal Deaths

National Comparison 2017-2019 (n=1,018)

Leading underlying cause= Mental Health/SUD

• *22.7%* (2017-2019)

NOTE: Also leading in 2020 (22.5%)





Oregon MMRC: Recommendations

- All payers, including Medicaid, should prioritize coordinated mental health/substance use disorder care for pregnant people.
- 2. Systems need to support improved communication between care teams across medical specialties and disciplines.
- 3. Care teams need implicit bias training and support.
- 4. Strengthen postpartum support systems.
- 5. Improve education and support for gun safety, especially in cases with known mental health conditions.

Oregon MMRC: Recommendations, Cont'd

- 6. Encourage vaccine uptake in underserved communities with culturally specific outreach.
- 7. Increase access to blood products for hemorrhage management in delivery settings.
- 8. Hospitals should implement robust emergency simulation trainings.
- 9. Prioritize autopsies for maternal deaths.
- 10. Improve access to social services and basic supports (food, housing) to ensure people entering pregnancy are in a better state of health.

"...if she had been given the information in a way that was helpful to her maybe she would have had a different outcome."



Oregon Maternal Health 2024 March of Dimes Report Card

Selebrations

- Overall low risk cesarean birth rate
- Overall infant mortality rate
- Overall prenatal care adequacy
- Paid family leave
- Doula reimbursement
- Medicaid extension

Caution

Preterm Birth Rate



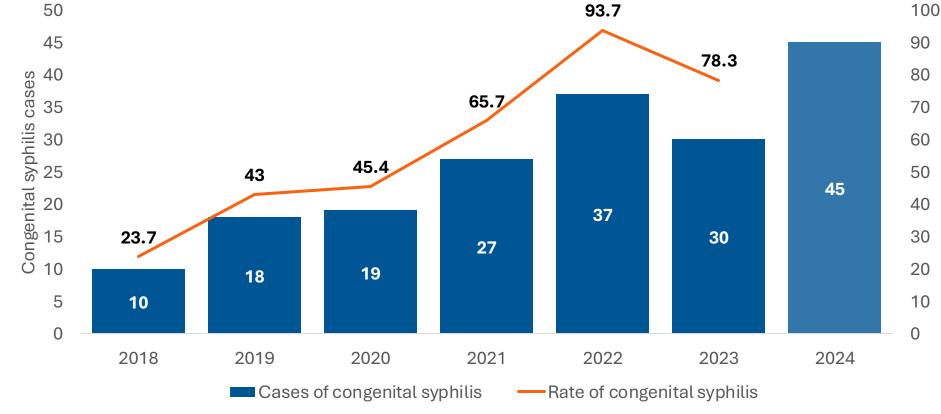
- Racial DisparitiesPreterm Birth
 - Infant Mortality
- Key vulnerabilities:
 - Mental Health
 - SUD
 - Socioeconomic determinants



Congenital Syphilis in Oregon



Counts and rates of congenital syphilis cases by year, Oregon 2018-2024*





Congenital syphilis

*2024 data are provisional and subject to revision

2024 OPC visits to Oregon birthing hospitals

Universal themes

- Staffing issues
 - Obstetric providers
 - L&D trained nurses
 - In-hospital newborn coverage
- Worsening health of pregnant mothers
 - Chronic health conditions
 - Complex social & behavioral health needs
- Inadequate payment for complex pregnancy care





Full report on OPC's website



Themes from rural Oregon labor units

- Need for more connection & support
 - From other rural & critical access hospital labor units
 - From larger hospitals & OPC
- Major provider staffing shortage
- Challenges maintaining emergency skills with low birth volume
- Challenges with consultation & transfer



Needs identified in 2024 hospital visits



- Protected time for quality improvement work
- Increased perinatal & behavioral health workforce
- Workforce development and retention
- Improve consultation, referral and transfer
- Payment reform to improve reimbursement for increasingly complex care
- Expansion of Project Nurture and Nurture Oregon sites
- More access to interpreters
 - Spanish, Mayan, Pacific Islander languages, Haitian creole



What else have we missed about maternal health in rural Oregon?



Steps to improve rural maternal health

1. Connect with partners & resources

2. Engage in targeted quality improvement

3. Advocate for policy change



Connect with partners & resources

- Oregon Perinatal Collaborative
 - Quarterly CAH maternal & infant health meeting
 - Quality improvement initiatives
 - Annual OPC summit
- Alliance for Innovation on Maternal Health
 - Patient safety bundles
 - Hemorrhage, hypertension, SUD, and more
 - Resource kits
 - Obstetric emergency readiness (for emergency departments)

Can help meet CMS birthing friendly designation requirements



OPC is Oregon's PQC



- All 50 states in the US have a Perinatal Quality Collaborative
- "Perinatal Quality Collaboratives (PQCs) are state or multistate networks of multidisciplinary teams, working to improve maternal and infant health outcomes" -NNPQC
- PQCs use quality improvement methods to:
 - Implement evidence-based care practices
 - Increase respectful, patient-centered care
 - Close gaps in care
 - Advance policy to improve maternal & infant health
- PQCs work on everything from cesarean reduction, to antibiotic stewardship to maternal mental health



Oregon's Perinatal Collaborative's Network of Partners

National

NNPQC: National Network of Perinatal Quality Collaboratives

AIM: Alliance for Innovation of Maternal Health

Oregon

Oregon Birthing Hospitals (46)

Black Futures Initiative

Comagine Health

Community Doula Alliance

Community Doula Program

HealthShare of Oregon

Hospital Association of Oregon

March of Dimes

Multnomah County Healthy Birth Initiative

Northwest Neonatal Improvement Priority Alliance

Patient Family Partners

Oregon ACNM

Oregon ACOG

Oregon AWHONN

Oregon Coalition of Local Health Officials

Oregon Doula Association

Oregon Health Authority

Maternal & Child Health Section

Maternal Mortality & Morbidity Review Committee

Oregon Legislature

Oregon Midwifery Council

Oregon Office of Rural Health

Oregon Primary Care Association

Targeted quality improvement

OPC toolkits & resources

- Newborn resuscitation
- Severe hypertension
- Obstetric Hemorrhage
- Perinatal SUD coming soon!
- Community birth transfer improvement
- Congenital syphilis

AIM patient safety bundles

- Safe reduction of primary cesarean birth
- Cardiac conditions in obstetric care
- Perinatal mental health conditions
- And more!





Targeted quality improvement

- Institute for Healthcare Improvement
 - Quality improvement essentials toolkit
- Simulation for birth emergencies
 - Essential for maintaining & improving key skills to prevent morbidity & mortality
 - Important areas for simulation:
 - Hemorrhage
 - Shoulder dystocia
 - Newborn resuscitation
 - Severe hypertension
 - Emergency cesarean
 - ORH & OPC are both resources for simulation support
- Collaboration with EMS & Emergency Departments



Policy change for maternal health

- Maternal health is a non-partisan issue
- Many state legislators & congresspeople can become advocates when they understand the local impact in their communities
- Structural changes at every level are needed to improve maternal health
- Many opportunities to get involved





Policy change for maternal health

Federal

- <u>Keeping Obstetrics Local Act</u> (Senator Wyden)
- Medicaid funding
- Continued funding of PQCs & maternal health programs within HRSA & CDC
- Restoration of funding for <u>Pregnancy Risk Assessment Monitoring</u>
 <u>Systems</u>

State

- Invest in perinatal & behavioral health workforce
- Fund expansion of Nurture Oregon
- Payment reform for pregnancy, birth, & postpartum care



Policy change for maternal health

- County
 - Make maternal health a priority in planning
 - Creation of local maternal/perinatal health taskforces
- Hospital/Clinic
 - Create & preserve practice support, QI, & education positions for L&D units
 - Provide protected time for QI & education in perinatal health
 - Support opportunities for collaboration between clinics, hospitals, and hospital systems



Creating Your Action Plan

Identify pressure points & safety concerns

Seek patient feedback

- Engage partners
- Start small
- Set SMART goals
- Build on successes
- Plan for short, mid, and long-term actions

Specific
Measurable
Achievable

Relevant

Time-bound

Where could you start?





Thank You

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