Engaging Stakeholders in Statewide Perinatal Care System Development



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- I have no conflict of interest to disclose.
- I do not have any relevant financial relationships with any commercial interests

Brief Presentation Description

Systems thinking and the engagement of a collaborative team of diverse stakeholders are the keys to success in building a statewide perinatal coordinated system. This presentation will describe three areas of perinatal system development which demonstrate a collaborative framework: (1) NICU follow-up programing; (2) Northern Michigan Perinatal Integration Model of Care and (3) Certificate of Need Special Care Nurseries Project.

Conference Objective

Recognize how partnerships, coalitions and broad disciplinary approaches can be used to solve public health challenges.

Presentation Objectives

At the end of the presentation, participants can

- State two examples of how the State of Michigan used a collaborate approach in the perinatal coordinated system development.
- 2. Describe two public health competencies used in the development of a statewide perinatal coordinated system.

PUBLIC HEALTH CHALLENGES

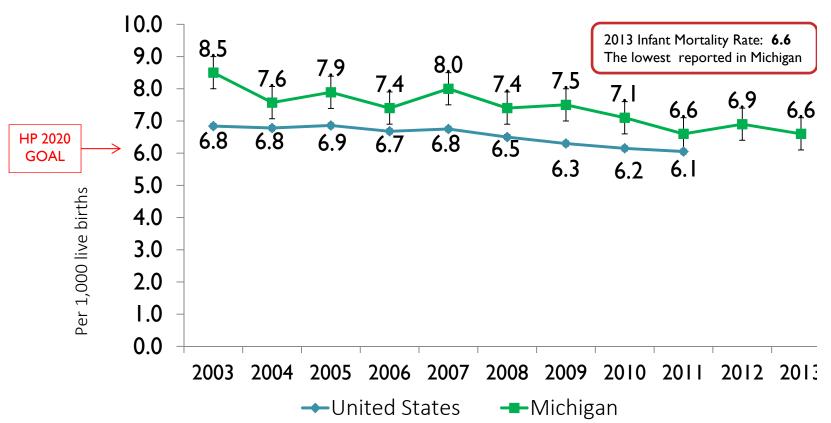
Infant Mortality
Maternal Mortality

Public Health Challenge

Infant mortality is a critical indicator of the overall health & welfare of Michiganders.

It is a priority of Governor Snyder and part of the state Dashboard.

Trend of infant mortality, 2003-2013



Source: Michigan Resident Birth and Death Files, MDCH Division for Vital Records & Health Statistics Prepared by: MDCH MCH Epidemiology Unit

Infant Mortality in Michigan is a Public Health Crisis

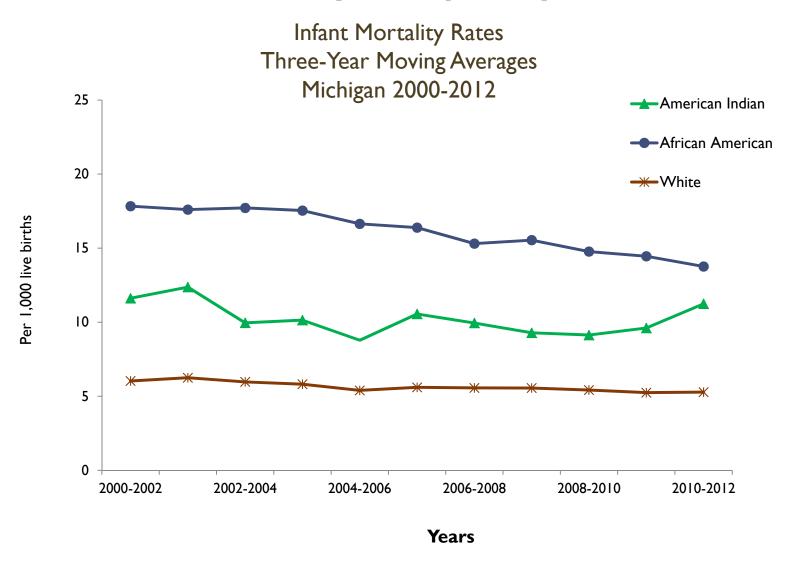
- > 783 Michigan babies died in 2012
- Michigan ranked 37th/50 among states for infant mortality overall, 2010 ¹
- MI ranked 31st/35 [46/50] nationally for African American infant mortality, 2010²
- Detroit ranked 50th/50 nationally among cities compared to U.S.
- > #I cause of infant mortality is Low Birth Weight/ Prematurity



¹ Kids Count Data Center, Annie E. Casey Foundation

²15 states not ranked; NCHS reporting standard not met

Infant Mortality Disparity



Source: Michigan Resident Birth and Death Files, MDCH Division for Vital Records & Health Statistics Prepared by: MDCH MCH Epidemiology Unit

Public Health Challenge

Maternal mortality is a critical indicator of the overall health and welfare of Michiganders.

Healthy People 2020 Objective MICH-5:

Reduce the rate of maternal mortality

- U.S. 2007 Baseline: I 2.7 maternal deaths/I00,000 live births
- Michigan: 25.6 pregnancy-related maternal deaths/100,00 live births
- Healthy People 2020 U.S. Target: 11.4/100,00 live births

References:

Centers for Disease Control and Prevention, National Center for Health Statistics; Retrieved 2-10-11, from http://hrc.nwlc.org/status-indicators/maternal-mortality-rate-100000
US Department of Health and Human Services; Retrieved 9-27-13, from http://healthypeople.gov/2020/topicsobjectives2020/objectiveslist.aspx?topidid=26





US & MI Pregnancy-Related Mortality by Race-Ethnicity Per 100,000 live births, 1999-2010

	Overall	NH White	NH African American	Rate Difference	Rate Ratio
Michigan	22.2	16.6	50.8	34.3	3.1
United States	15.6	11.5	35.8	24.3	3.1

Michigan Pregnancy-Related Mortality in compared to other states

• NH African American 3rd Highest (tied with New Jersey)

Overall Pregnancy-Related 8th Highest

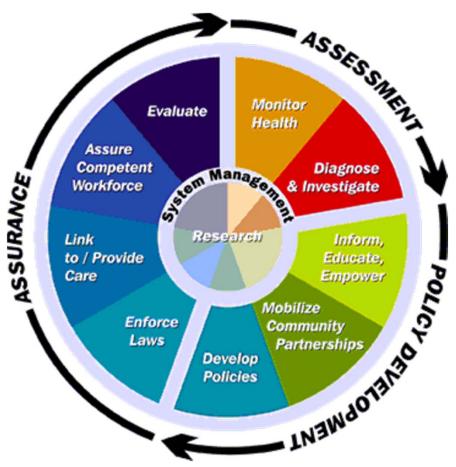
NH White
 11th Highest

Racial Disparity
 15th Highest

The maternal mortality outcomes for African American and Native American populations represent persistent and unexplained elevated rates/ratios across all income and education levels in Michigan and the US.

PUBLIC HEALTH COMPETENCIES FRAMEWORK

Core Public Health Functions: Assessment, Assurance & Policy Development Ten Essential Services



Office of Disease Prevention and Health Promotion (1999). Public Health in America. Retrieved Feb. 23, 2007 from http://www.health.gov/phfunctions/public.htm

Core Competencies for Public Health Professionals

- Analytical/Assessment Skills
- Policy Development/Program Planning Skills
- Communication Skills
- Cultural Competency Skills
- Community Dimensions of Practice Skills
- Public Health Sciences Skills
- Financial Planning and Management Skills
- Leadership and Systems Thinking Skills

Policy Development/Program Planning Skills

- Develops options for policies, programs and services
- Recommends policies, programs and services for implementation
- Implements policies, programs and services
- Evaluates policies, programs and services
- Implements strategies for continuous quality improvement

Communication Skills

- Solicits input from individuals and organizations for improving the health of a community
- 2. Conveys data and information to professionals and the public using a variety of approaches [IM WEBSITE]
- 3. Communicates the role of governmental public health, health care, and other partners in improving the health of a community

Michigan Infant Mortality Website



Governor Snyder to provide a quick assessment of the state's performance in key areas such as public health. To view the

Infant Mortality Dashboard, click HERE

Leadership and Systems Thinking Skills

- I. Describes public health as part of a larger inter-related system of organizations that influence the health of populations at local, national & global levels
- Collaborates with individuals and organizations in developing a vision for a healthy community
- 3. Analyzes internal & external facilitators and barriers that may affect delivery of Essential Public Health Services (QI tools, root cause analysis)

MILLION DOLLARPAUSE

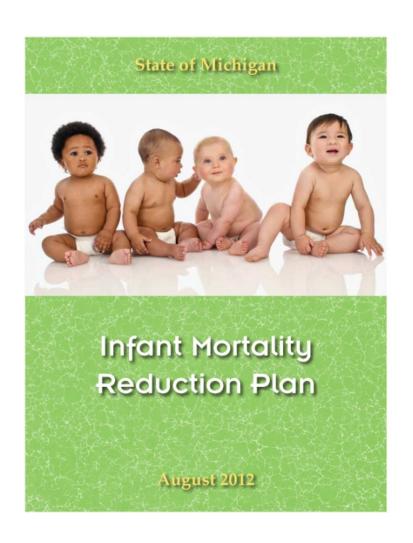
STATEWIDE PERINATAL CARE SYSTEM DEVELOPMENT

Background/History

- 2009 Appropriations required convening group to restore regional perinatal system of care
- Formed 3 workgroups with stakeholders across the state
- Created report- Perinatal Regionalization:
 Implications for Michigan
 - Eighteen recommendations in the report

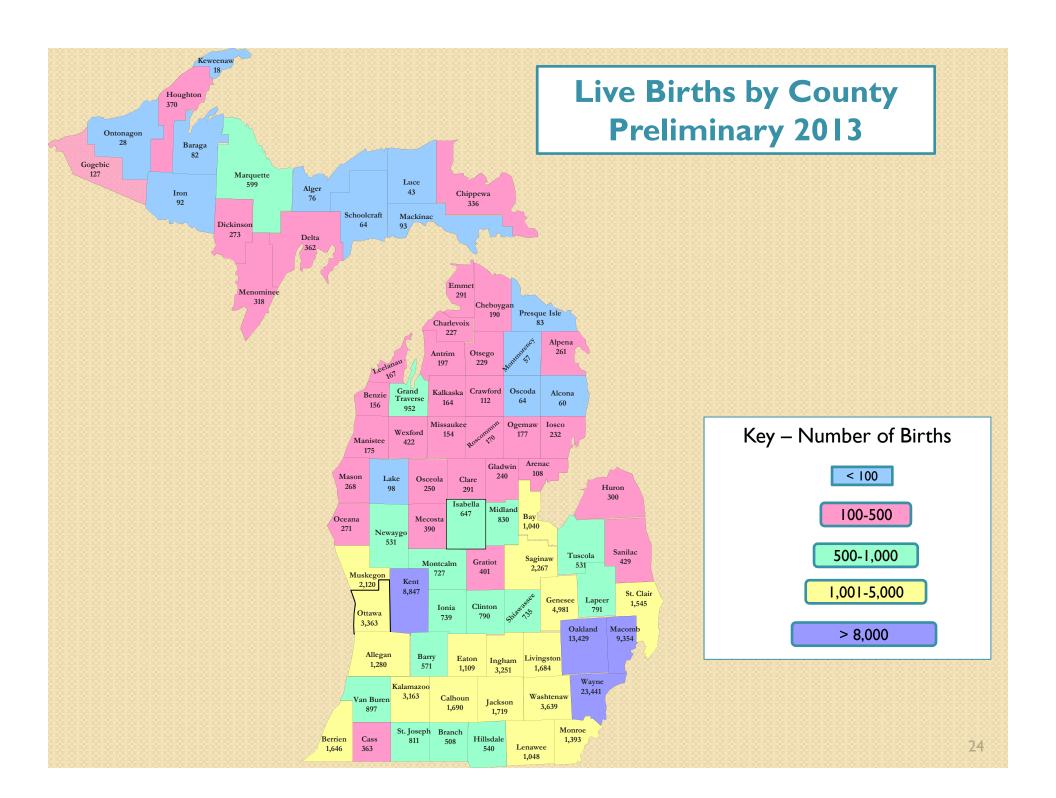


- 2011 Summit: A Call to Action to Reduce Infant Mortality in Michigan
- Stakeholders contributed
- Infant Mortality ReductionPlan developed in 2012
 - One of the eight strategies is to implement a regional perinatal system



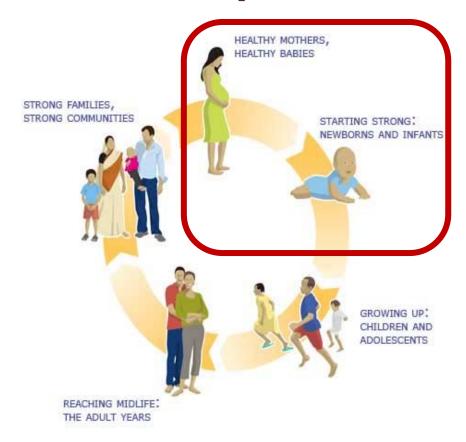
Defining Perinatal Care System

- Perinatal period is defined as the time beginning before conception and continuing through the first year of life (March of Dimes, TIOP II, 1993)
- Perinatal Care System is defined as a sustainable community integrated health care system of people, institutions and local resources for women and infants that promotes healthy birth outcomes and babies who survive and thrive.

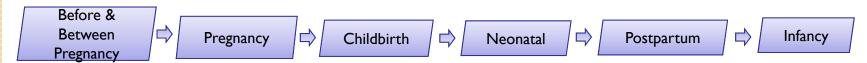


BIRTH HOSPITALS Harr BY PROSPERITY REGIONS Ontonagon HH Baraga Gogebic Marquette Luce H Chippewa Schoolcraft Mackinac Dickinson H Charlevoix H H H Missauke Clare Н Huron **Key – Hospitals by CON** Lake Osceola H Isabella Newaygo 📳 **OB** (Birthing) Hospitals Tuscola H **OB** (Birthing)/NICU Hospitals H H 6 Montcalm H H Gratiot Н Saginaw G. St. Clai H **Numbers represent State of Michigan** H H Ottawa EH **Prosperity Regions** Н H H H Н Hillsdale H 25

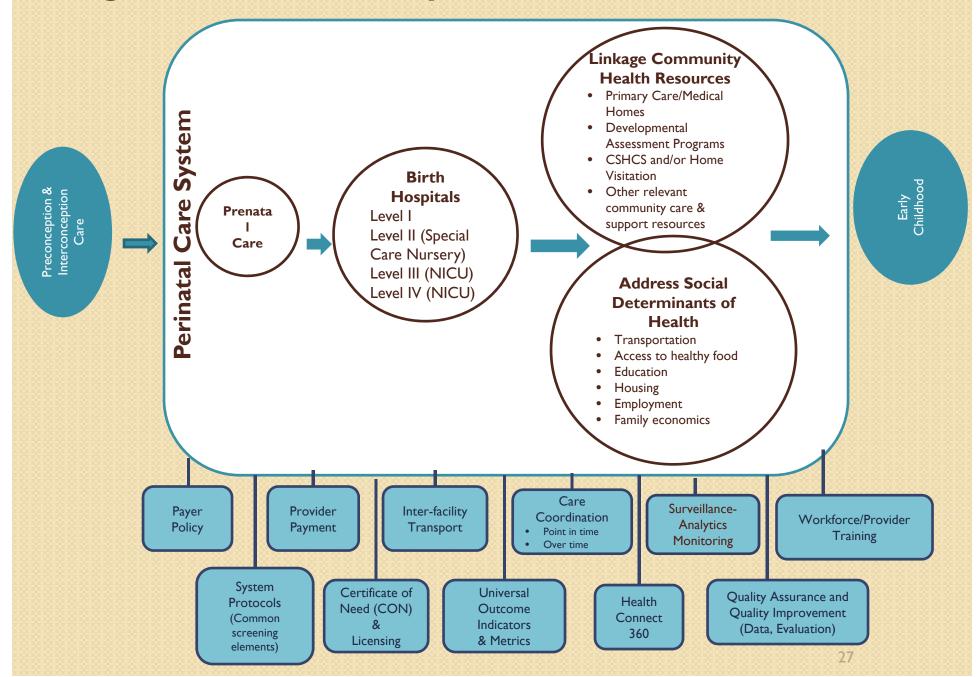
Perinatal care system within Life Course Perspective

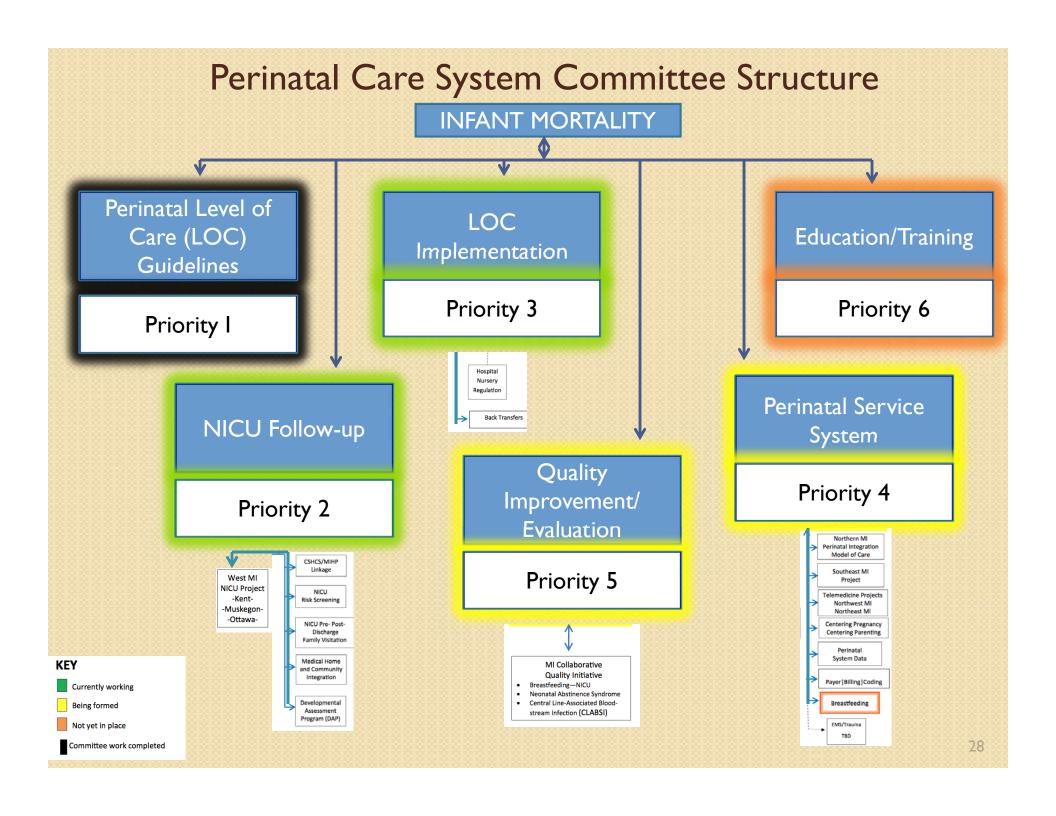


PERINATAL LIFECOURSE PERIODS



Michigan's Perinatal Care System within Lifecourse Context





MILLION DOLLARPAUSE

- Certificate of Need Special Care Nurseries Project
- NICU follow-up program
- Northern Michigan Perinatal Integration Model of Care

COLLABORATIVE ENGAGEMENT OF KEY STAKEHOLDERS IN PERINATAL CARE SYSTEM DEVELOPMENT USING PUBLIC HEALTH COMPETENCIES

Stakeholders in Perinatal Care System Development

Local Health Departments

Birth Hospitals

Level I

Level II - Special Care Nursery

Level III & Level IV – Neonatal Intensive Care Unit

Providers

Obstetricians, Neonatology, Nurse Practitioners Nurse Managers, Discharge Planners, Educators

Payers

Blue Cross & Blue Shield of Michigan Medicaid

Health Plans

McLaren Health Plan

Meridian Health Plan

Family Representation

State Departments

Michigan Department of Education

Early Or

Michigan Department of Human Services

Professional Organizations - Michigan - American Congress of

Obstetricians and Gynecologists,

Michigan-American Academy of

Pediatrics,

Michigan State Medical Society

Community Organizations

Maternal Infant Health Program (MIHP) Agencies

March of Dimes

Children's Healthcare Access Program (CHAP)

Federally Qualified Health Centers (FQHC)

Provider Organizations

Michigan Health & Hospital Association

Michigan Association of Health Plans

Michigan Primary Care Association

Universities

Wayne State University

University of Michigan

Michigan State University

Institute for Health Policy/Michigan State University

Advocacy Organizations

Michigan Council of Maternal Child Health

Michigan Association of Infant Mental Health

Michigan Department of Community Health

Public Health Administration

Chief Medical Executive

Bureau of Family, Maternal and Child Health

Medical Services Administration

Division of Family and Community Health

Bureau of Disease Control, Prevention & Epidemiology

Division of Children's Special Health Care System

Health Planning & Access to Care

Certificate of Need Evaluation

Mental Health Services for Children & Families

CERTIFICATE OF NEED SPECIAL CARE NURSERIES PROJECT

Issues

- There has been NO regulation for Level II hospitals or Special Care Nurseries in the state.
- Wide variation in level of care provided in Level II.
- Regulation will:
 - Provide a level of safety and quality for infants in Michigan
 - Provide consistency and a level of standardization based on national standards

Why regulate?

 Literature and evidence indicate that states with a regionalized and coordinated perinatal system of care better assure that pregnant women and babies are more likely to deliver in an appropriate hospital setting and receive appropriate services to meet their needs.

- Healthy People 2020
 - MICH-33 Increase the proportion of very low birth weight (VLBW) infants born at level III hospitals or subspecialty perinatal centers

Level of Care (LOC) Implementation Committee

LOC Implementation

Priority 3

- Internal group working with Certificate of Need (CON) on NICU Bed Standards
- CON reviews standards every three years
- NICU Bed Standards incorporates special care nursery beds (SCN) (Level II)
- CON Commissioners voted to accept the language in their September 17, 2013 meeting
- CON Review Standards, effective March 3, 2014
- After January 1, 2016, all SCN services are subject to these CON Review Standards, for compliance and monitoring purposes

Level of Care Guidelines

AAP/ACOG have released NEW Perinatal Level of Care Guidelines in 2012

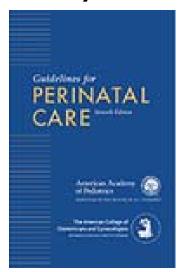
Level I: Basic – Well Newborn Nursery

Level II: Specialty – Special Care Nursery

Level III: Subspecialty – Neonatal

Intensive Care Unit (NICU)

Level IV: Regional NICU



American Academy of Pediatrics, Committee on Fetus and Newborn (2012). Policy Statement: Levels of Neonatal Care. *Pediatrics Vol 130 No 3*, pp 587-597. doi: 10.1542/peds.2012-1999. Available:

http://pediatrics.aappublications.org/content/130/3/587.full.html

American Academy of Pediatrics and American College of Obstetricians and Gynecologists (2012). *Guidelines for Perinatal Care* (7th Ed).

CON Standards for Neonatal Intensive Care Services/Beds and Special Newborn Nursing Services

Web link:

http://www.michigan.gov/documents/mdch/NICU_Standards_330179_7.pdf

NEONATAL INTENSIVE CARE UNIT (NICU) FOLLOW-UP

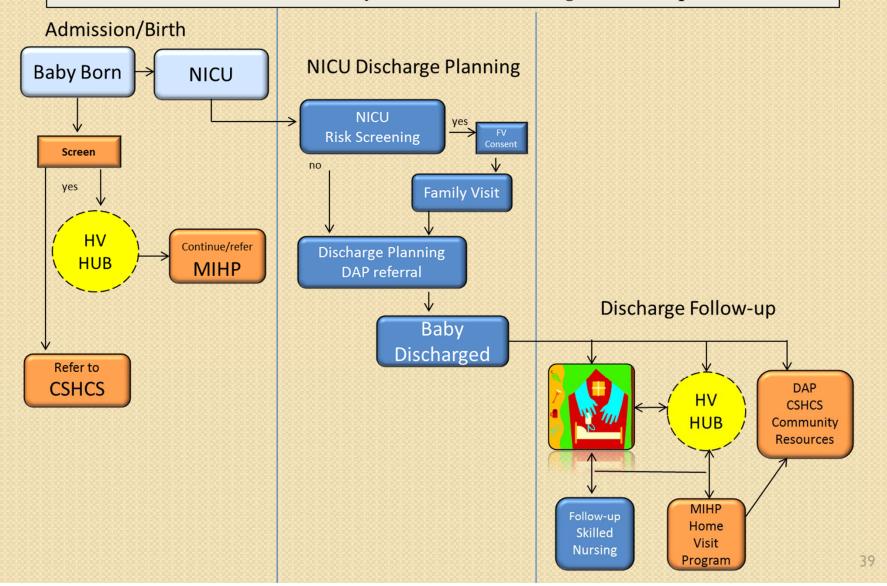




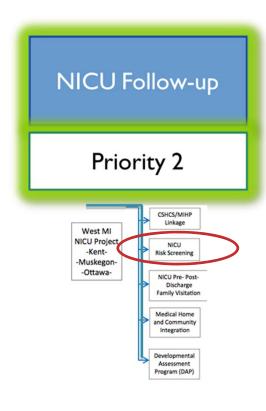


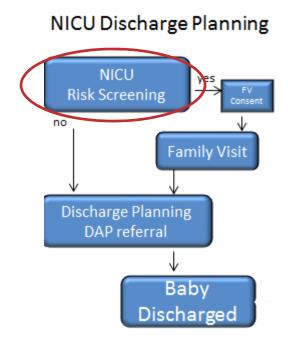
NICU Follow-up Schematic

Statewide Perinatal Care System: Birth-Discharge Follow-Up Process



NICU Risk Screening Workgroup





Collaborators – NICU Risk Assessment Workgroup

Stakeholder	Name	Position
MDCH MCH WG STAFF	Trudy Esch, MS, RN	Perinatal Nurse Consultant, MDCH
Neonatologist WG CO-CHAIR	Kim Tekkanat, MD	Neonatologist, Director NICU; Director DAC St. Joseph Mercy, Ann Arbor
NICU f/u Coordinator WG CO-CHAIR	Karen Pawloski, BSN, RN, BCLC	NICU Transition & Follow- up Coordinator Neurodevelopmental Pediatrics
Medical Consultant	Nina Mattarella, MD	CSHCS Med. Consultant MDCH
NICU discharge planner	Lourdes Murphree	SJMH Service Leader NICU
Neonatal Nurse Practitioner/CNS	Lori Charbonneau, MS, NNP-BC/CNS	NICU Covenant Healthcare
Perinatal CNS	Marilyn Maggioncalda	NICU CNS, Hurley Medical Center
NICU Nurse Manager	Sue Temen	Nurse Manager, NICU Helen DeVos Children's
MIHP representative	Lori Marta	Marquette County Health Dept. MIHP
LPH representative	Jenifer Murray Deb Aldridge	Benzie Leelanau HO Benzie Leelanau Nsg Supervisor
LHD	Deb Aldridge	Benzie Leelanau Nsg Supervisor
CSHCS representative	Linda Smith	Kent County CSHCS RN
MSU IHP	Deb Darling. RN, BSN, CCP	Project Manager, Quality Improvement Programs
Health Plans/Payers	Umbrin Ateequi	Health Policy Analyst BCBSM
MHA	Ron Hubble	Project Coordinator
Early On	Kelly Hurshe	MDE Consultant – Early On
Infant Mental Health	Joan Shirilla, MA/Med	IMH/Early Childhood Consultant (Traverse City)
Family member	Sylvia Driscoll	

- MDCH
- Hospital NICUs
- Community MIHP
- Local Health
 Department
- Local CSHCS
- Payers
- Early ON
- Infant Mental Health
- Family
- MHA
- All geographic regions

NICU Risk Screening Work Group

 <u>Purpose</u>: Develop an integrated, risk-based assessment process to determine need for NICU-specific home visitation

Activities:

- Define standardized risk assessment components, particularly including social determinants of health, as related to NICU-specific follow-up needs
- Develop guidelines for implementing within NICU discharge planning
- Develop a monitoring and evaluation plan, include the data needed to accomplish this





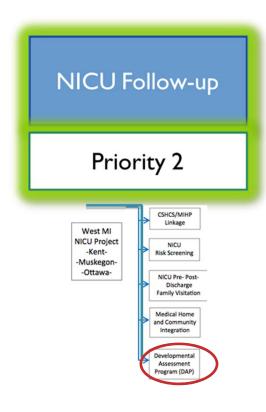


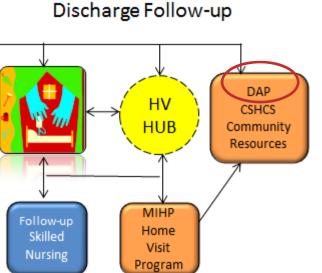


Deciding on the best criteria for NICU Risk Assessment

- Workgroup reviewed all possible infant risks that should trigger a home visit. List was comprehensive and long.
- Everyone in the group completed a survey monkey to stratify risks.
- Workgroup validated the top criteria
- Final recommendation = 16 criteria identified as most important in determining need for a home visit.

Developmental Assessment Program Workgroup





Collaborators for DAP Workgroup

Stakeholder	Name	Position
MDCH MCH	Trudy Esch, MS, RN	Perinatal Nurse Consultant
WG Staff	•	MDCH
Neurodevelopmental pediatrician	Prachi Shah, MD	Assistant Professor, Pediatrics
WG Co-Chair		Center for Human Growth and Development, U/M
DAC nurse coordinator	Karen Pawloski, BSN, RNC, BCLC	NICU Transition & Follow-up Coordinator
WG Co-Chair		Neurodevelopmental Pediatrics
MDCH MSA	Carol Lowe	Policy Specialist, MSA, MDCH
Medicaid Policy		
MPCA	Rebecca Ciencki, MPH	Chief Operating Officer
		MPCA
Health Plans/Payers	Umbrin Ateequi	Health Policy Analyst
		BCBSM
Health Plans	Cheryl Bupp	Medicaid Policy Director
		MAHP
Developmental Assessment Coordinator	Ann latrow, RN, MPH	DAC Coordinator
		University of Michigan
Developmental Assessment Coordinator	Heather Krueger, RNC, MSN	DAC Coordinator
		Covenant HealthCare
Developmental Assessment Coordinator	Elaine Taylor	Clinic Coordinators
		Marquette DAC
NICU Nurse Manager	LeeAnn Chadwick	RNICU Manager, Covenant HealthCare
Director Women's and Children Health	Connie Downing	Director, Women's and Children Health, Covenant HealthCare
MSU IHP	Lynette Biery	Project Manager, Quality Improvement Programs
Neonatology	David Sciammana, MD	Neonatologist, Director DAC
		Munson Medical
Neonatology	Kim Tekkanat, MD	Neonatologist, Director NICU; Director DAC, St. Joseph Mercy,
		Ann Arbor
CSHCS representation	Chris Buczek, RN, BSN	CSHCS, Kent County Health Department
MIHP representation	Connie Braxton	Silverspoon Home Services MIHP Farmington Hills
LPH	Debra L. Lenz	Kalamazoo County Health Dept., Maternal & Child Health Div.
		Manager
Family member	Barb Schinderle	
Early On	Vanessa Winborne	Education Consultant MDCH
Early On	Christy Callahan	Director of Innovative Projects MDCH
Mental Health	Sheri Falvay	Director of Mental Health Services for Children and Families
		MDCH
Mental Health	Lori Irish	

NICU Follow-up Workgroup: DAP

- Purpose: Define core elements/functions of developmental assessment program for statewide consistency and continuing quality improvement.
- Move from Developmental Assessment Clinic to Developmental Assessment Program
- Activities: Develop:
 - I. Identification of best practices
 - 2. Care plan core elements
 - 3. Involved Professional Staff
 - 4. Role of Parents / Caregivers in the P
 - 5. Criteria for referral
 - 6. Referral process
 - 7. Discharge Criteria
 - 8. Linkage / Collaboration





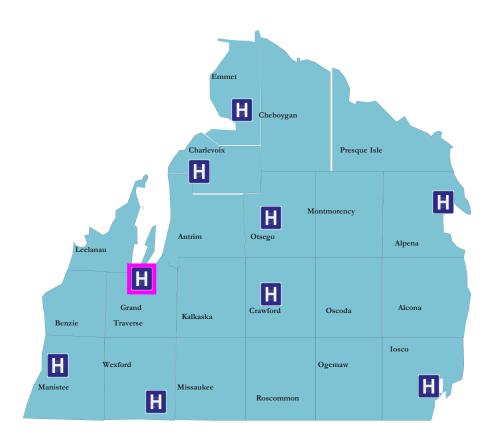
NORTHERN MI PERINATAL INTEGRATION MODEL OF CARE

Northern Michigan Perinatal Integration / Regional Model of Care Project

- North Central Council, Munson leadership in collaboration with stakeholders
 - Local hospitals in the northern Lower Peninsula
 - 7 health departments
 - March of Dimes
 - Michigan Hospital Association
 - physicians
 - Michigan Primary Care Association
 - Michigan Department of Community health
- -Scope is 21 counties in northern Lower Michigan
- Mission: Construct a sustainable integrated and coordinated network of care to deliver perinatal services to women and children in northern lower Michigan that builds on the existing structures of care and results in decreased infant mortality

Northern Michigan Perinatal Integration / Regional Model of Care Project

Scope = 21 Counties



Northern Michigan Perinatal Integration / Regional Model of Care Project

Phase I work

(July 2011 - June 2012)

- Understanding Regional characteristics of 21 counties – review of data and PPOR analysis of 21 counties, Affinity exercise
- Expanded membership of the leadership team
- Relationship to State regionalization initiative

Phase II

July 2012-2013)

Work from the project will be concentrated on three regional initiatives

- Regional FIMR for 21 counties
- Expansion of Healthy
 Futures – home visiting
 type of services
- Regional access to prenatal care

Northern Michigan Perinatal Integration / Regional Models of Care Project

Phase III

(2014)

In addition to three regional initiatives

- 1. Cross Jurisdictional Sharing
 - a) 6 local health departments
 - b) Northern Michigan Public Health Alliance
- Access to High Risk Care/Maternal Fetal Medicine through telemedicine
- 3. Birth Hospital Planning Mini-grants collaboration

Project: High Risk Maternal/Fetal Medicine Telemedicine Clinic

Purpose: to extend sustainable access to high risk maternal/fetal medicine care via telemedicine in Cadillac (Region II) and Alpena (Region III)

Process:

- □ Cadillac & Alpen areas have no access to subspecialty care/maternal fetal medicine providers; Spectrum MFM is 100 miles away from Cadillac; Munson MFM is 125 miles away from Alpena
- □ Telemedicine provides virtual meeting with patients in the Cadillac or Alpena clinic and MFM provider out of Spectrum in Grand Rapids or Munson Medical
- □ Real time appointment with access to obstetric equipment/ultrasound through encrypted process



Projects: Birthing Hospital Mini-grants

Purpose: Birthing hospitals implementation of linkages to Children's Special Health Care Services (CSHCS) and the Maternal Infant Health Program (MIHP) programs (if family not previously enrolled in an evidence-based home visiting program), based on the positive health outcomes as the result of families being enrolled in evidence-based home visiting services.

Funding Amount: 32 birthing hospitals (\$10,000 maximum funding amount per hospital)

Time Frame: July 1st-September 30th, 2014

Geographical Area: All Birthing Hospitals in Michigan

Evaluation: Work plan outcomes from each participating MI birthing hospital

Northern MI Mini-Grant Collaborators

21-County Region Birthing Hospitals: Prosperity Regions 2 and 3

21-County Region Health Departments: Prosperity Regions 2 and 3

Birthing Hospital	Primary Counties	Primary Health Department
Charlevoix Area	Charlevoix	HDNWM
Hospital Otsego Memorial Hospital (OMH)	Otsego Montmorency Antrim Cheboygan	HDNWM DHD4
Munson Medical Center (MMC)	GT, Benzie, Leelanau, Kalkaska, Antrim	GTCHD BLDHD DHD10 HDNWM
Mercy Cadillac	Wexford Missaukee	DHD10
Mercy Grayling	Crawford	DHD10 HDNWM DHD2
West Shore	Manistee Benzie	DHD10 BLDHD
McLaren Northern MI	Emmet	HDNWM
Alpena Medical Center	Alpena	DHD4
Tawas St. Joseph's	Ogemaw Iosco Oscoda Alcona	DHD2

Health Department	Counties Served
District Health Dept. #2	Alcona, Iosco,
	Ogemaw, Oscoda
District Health Dept. #4	Cheboygan, Alpena,
	Presque Isle,
	Montmorency
Health Dept. of Northwest MI	Antrim, Emmet,
	Charlevoix, Otsego
Benzie Leelanau District Health Dept.	Benzie, Leelanau
Grand Traverse County Health Dept.	Grand Traverse
District Health Dept. #10	Kalkaska, Crawford,
	Manistee, Wexford,
	Missaukee,
CMDHD	Roscommon

Perinatal Regionalization Lead: Kathy Garthe Project Coordinator: Jenifer Murray Other Members: Lynette Biery (MSU)











HEALTHY MOTHERS, BABIES & FAMILIES are the foundation of creating a HEALTHIER MICHIGAN

MILLION DOLLARPAUSE

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