



Cardiac Conditions in Obstetrical Care Change Package





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Introduction

The Alliance for Innovation on Maternal Health (AIM) is a national data-driven maternal safety and quality improvement (QI) initiative. AIM works through state and community-based teams to align national, state, and hospital-level QI efforts to reduce preventable maternal mortality and severe morbidity across the United States.

The AIM Patient Safety Bundles are a core part of this work. To promote the successful implementation of these bundles, AIM partnered with the Institute for Healthcare Improvement (IHI) to create a series of associated change packages. This specific change package is designed to support Perinatal Quality Collaboratives (PQCs) and other state-based initiatives to leverage the AIM Cardiac Conditions in Obstetrical Care Patient Safety Bundle more effectively.

Why is this important?

Cardiovascular disease (CVD) is the leading cause of maternal mortality and morbidity in the first year postpartum, and the leading indirect cause of maternal mortality, particularly in non-Hispanic Black and Hispanic birthing people. Across all age groups and all causality, non-Hispanic Black women have a higher prevalence of pregnancy-related mortality. Recent national data on maternal mortality by race confirms a statistically significant increase in deaths per 100,000 live births each year from 2018 to 2020. Furthermore, the rates are highest among non-Hispanic Black populations and women over the age of 40. A California analysis of maternal deaths due to CVD found that the majority occurred in the postpartum period.

There is an urgent need to mobilize resources to care for pregnant and postpartum birthing people with known and newly diagnosed CVD. This will involve developing multidisciplinary teams consisting of specialists in maternal-fetal medicine, cardiology, and anesthesia. This safety bundle and change package will provide guidance for establishing a system to manage the complex health of these pregnant and postpartum birthing people. The goal of this safety bundle and change package is to provide recommendations with associated examples and references to facilitate pregnancy cardiovascular risk assessment, appropriate diagnostic testing, early recognition of cardiac emergencies, and creation of a cardio-obstetrics team. The focus will be on checklists, protocols, and multidisciplinary management. The emphasis is on respectful care and a multidisciplinary approach at all levels of care.





What is a change package?

A change package is a document listing evidence-based or best-practice changes specific to a topic and is usually organized around a framework or model. In this case, the Cardiac Conditions in Obstetrical Care Change Package is structured around the <u>Cardiac Conditions in Obstetrical Care Patient Safety Bundle</u>.⁵

Changes packages, including this one, are structured around the following components:

- Primary Drivers: Major processes, operating rules, or structures that will contribute to
 moving toward the aim. In this change package, the primary drivers are based on AIM's
 Five Rs Framework (Readiness, Recognition & Prevention, Response, Reporting/Systems
 Learning, and Respectful Care).
- Change Concepts: Broad concepts (e.g., "move steps in the process closer together") that are not yet specific enough to be actionable but that will be used to generate specific ideas for change.
- Change Ideas: Actionable, specific idea for changing a process. Change ideas can come from research, best practices, or from other organizations that have recognized a problem and have demonstrated improvement on a specific issue related to that problem.

Taken as a whole, a change package has the potential to seem overwhelming. Based on the priorities of your state and community, we encourage you to start small by testing a couple of ideas connected to the aim you set. Through iterative tests of change (also known as Plan-Do-Study-Act (PDSA) cycles), you will have an opportunity to learn what works and what does not in your efforts to improve your processes. Initially, these cycles are carried out on a small scale (e.g., one patient on one day) to see if they result in improvement. Teams can then expand the tests and gradually incorporate larger and larger samples until they are confident that the changes will result in sustained improvement.





How to prioritize changes?

No team is expected to test all the listed change ideas. Consider this a menu of options from which you may choose what to tackle first. Each team will review their baseline data, progress to date, organizational priorities, and select an area(s) to prioritize. For example, some may start with one driver. Others may start by tackling one idea across all drivers. Start by choosing an area that you think could lead to an easy win.

You can also leverage the following tools to help you decide where to start:

- Pareto chart: A type of bar chart in which the various factors that contribute to an overall effect are arranged in order according to the magnitude of their effect. This ordering helps identify the "vital few" the factors that warrant the most attention.⁶
- Priority matrix: A tool that can better help you to understand important relationships between two groupings (e.g., steps in a process and departments that conduct that step) and make decisions on where to focus.⁷
- Impact-effort matrix: A tool that helps identify which ideas seem easiest to achieve (least effort) with the most effects (highest impact). The ideas identified via this tool would be a great place to start.8





Change Package

A Note on Symbols

Respectful, Equitable, and Supportive Care

In addition to having an independent section in this change package dedicated to the AIM Cardiac Conditions in Obstetrical Care Patient Safety Bundle's fifth R (Respectful, Equitable, and Supportive Care), all change ideas in other sections that fall under this R are marked with a \$\sqrt{graph}\$ symbol.

Additional Considerations

It is understood that every team utilizing this change package will be at a different point in this work. If your organization is further along in your obstetrical cardiac conditions improvement work and has found reliability in some of the change ideas below, we suggest testing the additional considerations that are in *italics* and marked by the * symbol.





Readiness

Every Unit/Team

Change Concept	Change Idea	Key Resources and Tools
Train all obstetric (OB) providers to perform a basic Cardiac Conditions Screen	Determine which screening tool will be used and train providers to use it A cardiac conditions screening tool should include:* Patient history of cardiac conditions Patient-reported symptoms Vital signs Physical examination	California Maternal Quality Care Collaborative (CMQCC): Improving Health Care Response to Cardiovascular Disease in Pregnancy and Postpartum ⁹ California Cardiovascular Screening Tool: Findings from Initial Implementation ¹⁰ Screening for Cardiovascular Disease in Pregnancy: Is There a Need? ¹¹
	Include the Council on Resident Education in Obstetrics and Gynecology (CREOG) educational objectives on cardiac conditions in pregnancy in teaching curricula for obstetrics and gynecology residency programs	CREOG Educational Objectives: Core Curriculum in Obstetrics and Gynecology: 12th Edition ¹²
	Conduct cross-training and observation among all health care providers (including nurses) within the fields of general OB-GYN, general cardiology, emergency medicine, and maternal-fetal medicine, with focus on echocardiogram (echo), electrocardiogram (ECG), and medication knowledge	Need for Better and Broader Training in Cardio-Obstetrics: A National Survey of Cardiologists, Cardiovascular Team Members, and Cardiology Fellows in Training ¹³ In cardio-obstetrics, clinicians must think 'outside the box' on CV issues in pregnancy ¹⁴





		Management of Chronic and Gestational Hypertension of Pregnancy: A Guide for Primary Care Nurse Practitioners ¹⁵
	During simulation drills, include scenarios to engage a team of learners from multiple disciplines in immediate recognition and treatment of a suspected cardiac event based on the combination of symptoms and abnormal vital signs	Simulation: Emergencies in Clinical Obstetrics (ECO) ¹⁶ Obstetric Emergency Drills Trainer's Manual ¹⁷
		American College of Obstetricians and Gynecologists (ACOG): Preparing for Clinical Emergencies in Obstetrics and Gynecology: Committee Opinion 590 ¹⁸
		Hospital-wide cardiac arrest in situ simulation to identify and mitigate latent safety threats ¹⁹
Establish a protocol for rapid identification of potential pregnancy-related cardiac conditions in all practice settings into which pregnant and postpartum people may present	In rural and other remote tertiary center settings, recognize that the lack or unavailability of a cardio-obstetrical team does not remove presentation of pregnant and postpartum patients Build in screening and obstetrical emergency readiness at points of entry and construct a pathway to mobilize a multidisciplinary team Consider training within a health system including multiple disciplines*	LetsTalkPPCM ²⁰ CMQCC: Improving Health Care Response to Cardiovascular Disease in Pregnancy and Postpartum ⁹
	Develop and test protocol across care settings to affirm it is working as intended	Simulation training in obstetric practice ²¹
	Offer support, resources, and referrals for patients who decide to terminate their pregnancy	Practice Bulletin No. 152: Emergency Contraception ²²





Develop a patient education plan based on the pregnant and postpartum person's risk of cardiac conditions	Emphasize occurrence of adverse obstetrical events based on the modified World Health Organization (WHO) Risk Criteria in Pregnancy, including those patients with known CVD, given that the normal cardiovascular changes in pregnancy can result in decompensation of CVD	2018 European Society of Cardiology (ESC) Guidelines for the management of cardiovascular diseases during pregnancy ²³
	Emphasize shortness of breath, tachycardia, and other chief complaints as a key issue and know when to prompt immediate consultation Encourage providers to obtain a detailed history of present illness that includes more information about positive symptoms (e.g., how many blocks can you walk without shortness of breath?; how many pillows do you need to sleep comfortably at night without shortness of breath?)*	ACOG Practice Bulletin No. 212: Pregnancy and Heart Disease ²⁴ Pregnancy in the Woman With Preexisting Cardiovascular Disease ²⁵
	Inform and educate physicians and nurses to not presume that patients with adult congenital heart disease know the signs and symptoms of worsening cardiac conditions imposed by their pregnancy experience Make available and known to providers risk screening tools that are specific for pregnant women with congenital heart disease*	Addressing maternal mortality: the pregnant cardiac patient ²⁶ Predictors of pregnancy complications in women with congenital heart disease ²⁷ Prospective validation and assessment of cardiovascular and offspring risk models for pregnant women with congenital heart disease ²⁸
Establish a multidisciplinary "Pregnancy Heart Team" (PHT) or consultants appropriate to their facilities' designated Maternal Level of Care to design coordinated clinical pathways for people experiencing cardiac	Identify members of team with specified roles and responsibilities	Introduction to Building the Cardio-Obstetric Team ²⁹ Table 4 in ACOG Practice Bulletin No. 212: Pregnancy and Heart Disease ²⁴ Maternal Cardiac Teams ³⁰





conditions in pregnancy and the postpartum period	Run drills for team with scenarios in different hospital settings including in-situ, clinical settings, and operating room	Management of Pregnancy in Patients With Complex Congenital Heart Disease: A Scientific Statement for Healthcare Professionals From the American Heart Association ³¹ Cardio-Obstetrics: A Practical Guide to Care for Pregnant Cardiac Patients ³² Maternal Cardiac Teams ³⁰
	Run simulations for PHT with basic and high-risk perinatal and postpartum scenarios	Checklists, huddles, and debriefs: Critical tools to improve team performance in obstetrics ³³
	Educate nursing about when PHT should be consulted and how to contact them to come to bedside Include PHT in drills to test systems, processes, team response, performance, and communication*	Interdisciplinary Team Huddles for Fetal Heart Rate Tracing Review ³⁴
	Establish a known code phrase (appearing on overhead page or in digital alerts) for cardiac emergencies so all disciplines develop situational awareness	Being prepared for a pregnant code blue ³⁵ Does every code need a "reader?" improvement of rare event management with a cognitive aid "reader" during a simulated emergency: a pilot study ³⁶
Establish coordination of appropriate consultation, co-	Ensure access to blood pressure cuff of all sizes for home measurement and telehealth in rural settings ◊	<u>Levels of Maternal Care: Obstetric</u> <u>Care Consensus Number 9</u> ³⁷





management, and/or transfer to appropriate level of maternal or newborn care	Use hub-and-spoke model to increase access with predetermined referral and transport system with appropriate transport personnel	The Spoke-Hub-and-Node Model of Integrated Heart Failure Care ³⁸
Develop trauma-informed protocols in training to address health care team member biases to enhance quality of care	Train staff and providers about trauma-informed care and about implicit bias ◊	Hidden in Plain Sight — Reconsidering the Use of Race Correction in Clinical Algorithms ³⁹ Part 12: cardiac arrest in special situations: 2010 American Heart Association Guidelines for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care ⁴⁰
Develop and maintain a set of	Embed referrals in electronic health records (EHR)	
referral resources and communications pathways between obstetric providers, community-based organizations, and state and public health agencies to enhance quality of care	Encourage site visits among health care settings, community-based organizations, and public health agencies to better understand systems and services • ** ** ** ** ** ** ** ** **	"Increasing Warm Handoffs: Optimizing Community Based Referrals in Primary Care Using OI Methodology" ⁴¹





Recognition and Prevention

Every Patient

Change Concept	Change Idea	Key Resources and Tools
Obtain a focused pregnancy and cardiac history in all care settings, including emergency department, urgent care, and primary care	Staff triage (OB and emergency) with skilled nurses for identification of cardiac issues	
	Ensure that elements of cardiac history are understood beyond just pregnancy-related assessment	High-Risk Cardiac Disease in Pregnancy: Part I ⁴² High-Risk Cardiac Disease in Pregnancy: Part II ⁴³
	Educate providers about definition of maternal mortality and the health disparities associated with it 0	Pregnancy-related mortality in the United States, 2006-2010 ¹ Recent Increases in the U.S. Maternal Mortality Rate: Disentangling Trends From Measurement Issues ⁴⁴ Trends in Maternal Mortality by Sociodemographic Characteristics and Cause of Death in 27 States and the District of Columbia ²
In all care environments, assess and document if a patient presenting is pregnant or has	Build inquiry into all entrance portals for care and ensure gender inclusivity in assessment 0	Association of Women's Health, Obstetric and Neonatal Nurses (AWHONN) Position Statement: Women's Cardiovascular Health ⁴⁵





been pregnant within the past year	Encourage and inquire about information associated with recent pregnancies to entire health care team including physicians and nurses.	Cardiovascular Considerations in Caring for Pregnant Patients: A Scientific Statement From the American Heart Association ⁴⁶ AWHONN Position Statement: Advanced Cardiac Life Support in Obstetric Settings ⁴⁷
Assess if escalating warning signs for a potential imminent cardiac event are present		
Utilize standardized cardiac risk assessment tools to identify and stratify risk	Utilize the four cardiac risk assessment tools: • mWHO • CARPREG I • CARPREG II • ZAHARA Most cases ultimately are risk-assessed individually; however, the tools exist to provide guidance*	mWHO: 2018 ESC Guidelines for the management of cardiovascular diseases during pregnancy ²³ CARPREG I: Prospective multicenter study of pregnancy outcomes in women with heart disease ⁴⁸ CARPREG II: Pregnancy Outcomes in Women With Heart Disease: The CARPREG II Study ⁴⁹ ZAHARA: Predictors of pregnancy complications in women with congenital heart disease ²⁷ Prospective validation and assessment of cardiovascular and offspring risk models for pregnant women with congenital heart disease ²⁸





Conduct a risk-appropriate work- up for cardiac conditions to establish diagnosis and implement the initial management plan	Include "equity pause" to look at bias risk within multidisciplinary care planning and to ask, "What are considerations to ensure respectful care without discrimination?" • Consider race, ethnicity, language, gender identity, obesity, mental	Pregnancy in congenital heart disease: risk prediction and counselling ⁵⁰ Improving Adherence to Essential Birth Practices Using the WHO Safe Childbirth Checklist With Peer Coaching: Experience From 60 Public Health Facilities in Uttar
тпападетнент ріан	health issues, unplanned pregnancy and history of pregnancies, marital status, housing status, education level, etc. as potential areas of bias for providers • *	Pradesh, India ⁵¹ Resisting the politics of the pandemic and racism to foster humanity ⁵²
Screen each person for condition- associated risk factors and provide linkages to community services and resources	Consider use of a care coordinator or community health worker to facilitate connections with community resources ◊	From Policy Statement to Practice: Integrating Social Needs Screening and Referral Assistance With Community Health Workers in an Urban Academic Health Center ⁵³ Integrating Social Needs Screening and Community Health Workers in Primary Care: The Community Linkage to Care Program ⁵⁴





Response

Every Event

Change Concept	Change Idea	Key Resources and Tools
Facility-wide standard protocols with checklists and escalation policies for management of cardiac symptoms	Develop protocol and escalation policy in accordance with maternal level of care with defined roles, triggers, treatment algorithms, and referral/follow-up plans Create system-wide protocols as needed for transfer within a system* Embed protocols in EHR*	TeamSTEPPS: Rapid Response System Instructor Slides ⁵⁵ Cardiovascular Considerations in Caring for Pregnant Patients: A Scientific Statement From the American Heart Association ⁴⁶
	Involve patients with lived experience in development of protocol ◊	Emergence of power and complexity in obstetric teamwork ⁵⁶
	Create individualized plans for discharge from emergency department or postpartum using specific criteria and with follow-up plans	
	Designate provider to take lead on patient and family communication during a crisis and ensure use of interpreter when needed ◊	
Facility-wide standard protocols with checklists and escalation policies for management of people with known or suspected cardiac conditions	Develop protocol and escalation policy in accordance with maternal level of care with defined roles, triggers, treatment algorithms, and referral/follow-up plans Create system-wide protocols as needed for transfer within a system*	
	Involve patients with lived experience in development of protocols ◊	
	Designate provider to take lead on patient and family communication during a crisis and ensure use of interpreter when needed \(\rightarrow \)	Engaging patients, families and professionals at the bedside using whiteboards ⁵⁷





Coordinate transitions of care, including the discharge from the birthing facility to home and transition from postpartum care to ongoing primary and specialty care	Provide access to shared EHR across settings	Seizing the Window of Opportunity Within 1 Year Postpartum: Early Cardiovascular Screening ⁵⁸
	Maintain list of cardiologists willing to focus on pregnant and postpartum patients and OB/GYN and primary care providers (PCPs) who are comfortable with cardiac conditions	A multi-state analysis of postpartum readmissions in the United States ⁵⁹ Postpartum preeclampsia or eclampsia: defining its place and management among the hypertensive disorders of pregnancy ⁶⁰
	Create treatment plans readily accessible in EHR	
	Standardize hand-off tools and communications for transitions of care	Impact of the communication and patient hand-off tool SBAR on patient safety: a systematic review ⁶¹
Offer reproductive life planning decisions and resources, including access to a full range of	Maintain understanding of how new laws may impact access in your state	
contraceptive options in accordance with safe therapeutic regimens	Engage people with lived experience about how to talk respectfully and equitably about contraceptive options and termination options •	
Provide patient education focused on general life-	Engage community-based organizations in development of culturally appropriate and language-specific materials •	





threatening postpartum complications and early warning signs, including instructions of who to notify if they have concerns, and time and date of a scheduled postpartum visit	Create educational materials that clearly specify when to call clinician, schedule an appointment, and go to emergency department	
	Ensure that materials are written at appropriate reading level and include what is and is not normal within pregnancy to help patients recognize when symptoms need attention •	
	Use teach-back to assess patient understanding of discharge communication	
	Use infographics to help educate all patients and their support network and include in discharge packet in each facility	





Reporting and Systems Learning

Every Unit

Change Concept	Change Idea	Key Resources and Tools
alignment with standard policies and produpdates) and to identify opportunities for identification of discriminatory practices) Establish standardized briefing document and determine actionable follow-up* Maintain awareness of how disparaging in "non-compliant," etc. can undermine care identify improvement champions in each. Archive debriefing documentation for OB and review systematically with unit-specific and QI leadership is address quality and safety issues * Conduct huddles in conjunction with stag responsive to evolving clinical scenarios	Have formal review following serious cardiac event to assess alignment with standard policies and procedures (with appropriate updates) and to identify opportunities for improvement (including identification of discriminatory practices) Establish standardized briefing documentation to capture successes and determine actionable follow-up* Maintain awareness of how disparaging labels like "frequent flyer," "non-compliant," etc. can undermine care and trust in the system* Identify improvement champions in each setting*	Obstetric Team Debriefing Form ⁶² Maternal Mortality Due to Cardiac Disease in Pregnancy ⁶³ Integrated Approach to Reduce Perinatal Adverse Events: Standardized Processes, Interdisciplinary Teamwork Training, and Performance Feedback ⁶⁴
	Archive debriefing documentation for OB cardiac conditions events and review systematically with unit-specific and QI leadership teams Establish unit-specific and QI leadership teams to review and address quality and safety issues *	Preidentification of high-risk pregnancies to improve triaging at the time of admission and management of complications in labour room: a quality improvement initiative 65
	Include patients and families in bedside huddles if they want to	Checklists, huddles, and debriefs: Critical tools to improve team performance in obstetrics ³³
	Have immediate post-event debrief (with equity lens) for support and learning • Establish standardized briefing documentation to capture successes and determine actionable follow-up *	Improving situational awareness to reduce unrecognized clinical deterioration and serious safety events ⁶⁶





	Have more formal after-action review with designated leader and standardized content *Reflect on equity in case as part of review * Include assessment of transfers to higher levels of care and multidisciplinary planning and treatment as part of review *Emphasize excellence in transferring patients and collaborating cross teams to help remove stigma for referral and transfer *	Does racism impact healthcare quality? Perspectives of Black and Hispanic/Latino Patients ⁶⁷ National Partnership for Maternal Safety: Consensus Bundle on Support After a Severe Maternal Event ⁶⁸ Severe Maternal Morbidity Reporting Forms ⁶⁹
Perform multidisciplinary reviews of serious complications (e.g., intensive care unit (ICU) admissions for reasons other than observation) to identify systems issues	Have formal review following care of those at highest risk (e.g., mWHO III or IV) and those who experienced complications to assess alignment with standard policies and procedures (with appropriate updates) and to identify opportunities for improvement (including identification of discriminatory practices) ◊ Include Race, Ethnicity and Language (REAL) data to identify potential bias and need for systemic changes ◊ * Use reporting pathways to communicate and document consistent issues *	
	Include involved providers (specialists and generalists) in review process with focus on ways to improve care Include near-misses and establish system for reporting near-misses and unexpected outcomes*	Racism and the Reproductive Health Experiences of U.SBorn Black Women ⁷⁰
	Identify key processes and outcomes for quality improvement data collection; include staff training metrics among run charts Align quality improvement data collection with a perinatal quality collaborative and with hospital quality committee/officer*	AIM Data Resources ⁷¹





	Monitor outcomes and process data related to cardiac conditions, with disaggregation by race and ethnicity due to known disparities in rates of	Collaborate with health information technology (HIT) or appropriate staff to modify EHR and automate data collection and reporting	Building U.S. Capacity to Review and Prevent Maternal Deaths: Report from Maternal Mortality Review Committees: A View into Their Critical Role ⁷²
by	cardiac conditions experienced by Black and Indigenous pregnant and postpartum people	Set specific goals for closing identified disparities using the SMARTIE format (strategic, measurable, ambitious, realistic, timebound, inclusive, and equitable) ◊	
		Collect and analyze REAL data Hold staff training on importance of REAL data and respectful collection *	
		Review all process and outcome data disaggregated by REAL to assess for inequities with unit-specific and QI leadership teams \(\cdot \) Engage leaders in messaging about destigmatizing discussion and identification of inequities to move toward action \(\cdot * \)	

Identify alternative strategies to integrate equity considerations into

disaggregated data may cause potential patient identifiability or

Assess quality of REAL data and develop processes for improved

reporting and systems learning in settings where use of

Identify a champion focused on inequalities ◊ *

unstable data ◊ *

data collection ◊





Respectful, Equitable, and Supportive Care*

Every Unit, Provider, and Team Member

Change Concept	Change Idea	Key Resources and Tools
Screen for structural and social drivers of health that might impact clinical recommendations or treatment plans and provide linkage to resources that align with the pregnant or postpartum person's health literacy, cultural needs, and language proficiency	Ensure that providers have information and resources to screen for social drivers of health •	Achieving Health Equity: A Guide for Health Care Organizations ⁷³ ACOG Patient Pamphlets ⁷⁴ Postpartum Depression Nutrition During Pregnancy Exercises During Your Pregnancy and Exercises After Your Baby Is Born Tear Pad Obesity and Pregnancy Routine Tests During Pregnancy Health Literacy: The SHARE Approach: 5 Essential Steps of Shared Decision Making ⁷⁵ Depression Screen: Edinburgh Postnatal Depression Scale ⁷⁶
	Educate clinicians on providing respectful care by engaging in the life- long learning of cultural humility, understanding that individuals cannot learn all aspects of any culture including their own ◊	Partnering in healthcare: A framework for better care and outcomes ⁷⁷
Engage in open, transparent, and empathetic communication with	Clarify goals and values for pregnancy that are essential to include in a patient's treatment plan ◊	Refusal of Medically Recommended Treatment During





pregnant and postpartum people and their identified support networks to understand diagnoses, options, and treatment plans		Pregnancy: Committee Opinion 664 ⁷⁸ New York City Standards for Respectful Care at Birth ⁷⁹ Educational needs of adolescents with congenital heart disease: Impact of a transition intervention programme ⁸⁰ Use of a modified reproductive life plan to improve awareness of preconception health in women with chronic disease ⁸¹ Experiences of women with cardiac disease in pregnancy: a systematic review and metasynthesis ⁸²
	Refer patients who have experienced significant cardiac events for trauma follow-up care and consider referral to a support group (such as SCAD Alliance) •	SCAD Alliance: Connect for Support ⁸³
	Include patient's support network contact information in EHR •	The Mother's Autonomy in Decision Making (MADM) scale: Patient-led development and psychometric testing of a new instrument to evaluate experience of maternity care 84
Include each pregnant or postpartum person and their identified support network as respected members of and	Ensure that a qualified network of interpreters is identified and utilized to support and facilitate patient communication ◊	Respectful Maternity Care: The Universal Rights of Childbearing Women ⁸⁵ City Birth Trauma Scale ⁸⁶





contributors to the multidisciplinary care team	The SHARE Approach: 5 Essential Steps of Shared Decision Making ⁷⁵
	Birth Place Lab ⁸⁷
	The Mothers on Respect (MOR) index: measuring quality, safety, and human rights in childbirth ⁸⁸

^{*}Further respectful care change ideas are integrated throughout the previous primary drivers as well. They are indicated by the \$\sqrt{symbol}\$.





Appendix

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