

COMMUNITY INTEGRATED PARAMEDICINE

Building a Statewide Infrastructure

Disclosure

I have no financial disclosures or conflicts of interest with the presented material in this presentation.

OBJECTIVES

- 1) Recognized the importance of a thorough statewide assessment and stakeholder conversations prior to strategic plan implementation.
- 2) Name three benefits of state accepted definitions.
- 3) Describe the core elements of Michigan's statewide CIP infrastructure.
- 4) Discuss the link between practice standardization and sustainability.



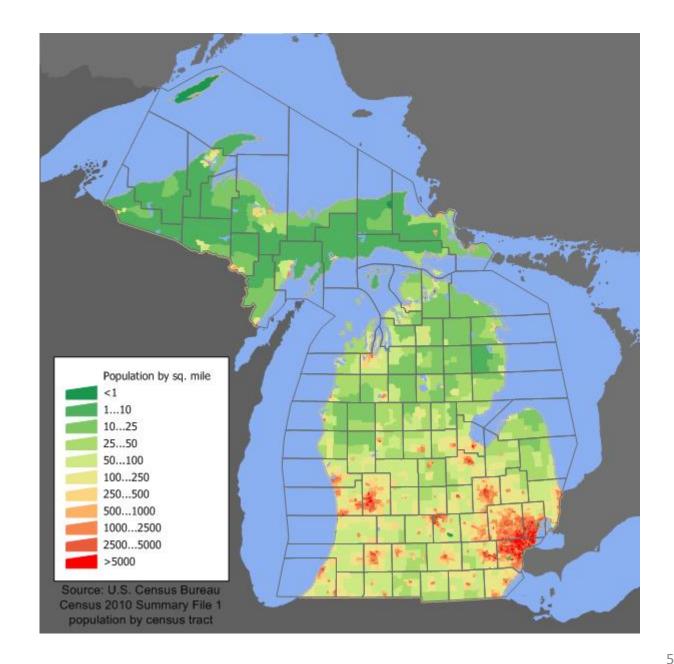
Public Health Code: Act 368 of 1978 (696 pages)

Part 209 pertains to EMS: pages 597-627 (30 pages)

- 333.20901 Meanings of words and phrases; general definitions and principles of construction.
- 333.20902 Definitions; A to D.
- Sec. 20902. (1) "Advanced life support" means patient care that may include any care a paramedic is
- qualified to provide by paramedic education that meets the educational requirements established by the
- department under section 20912 or is authorized to provide by the protocols established by the local medical
- control authority under section 20919 for a paramedic.
- (2) "Aircraft transport operation" means a person Sepecials porting by patient friends Study profit or otherwise, between health facilities using an aircraft transport vehicle.
- (3) "Aircraft transport vehicle" means an aircraft that is primarily used or designated as available to
- provide patient transportation between health facilities and that is capable of providing patient care according
- to orders issued by the patient's physician.
- (4) "Ambulance" means a motor vehicle or rotary aircraft that is primarily used or designated as available
- to provide transportation and basic life support, limited advanced life support, or advanced life support.
- (5) "Ambulance operation" means a person licensed under this part to provide emergency medical services
- and patient transport, for profit or otherwise.

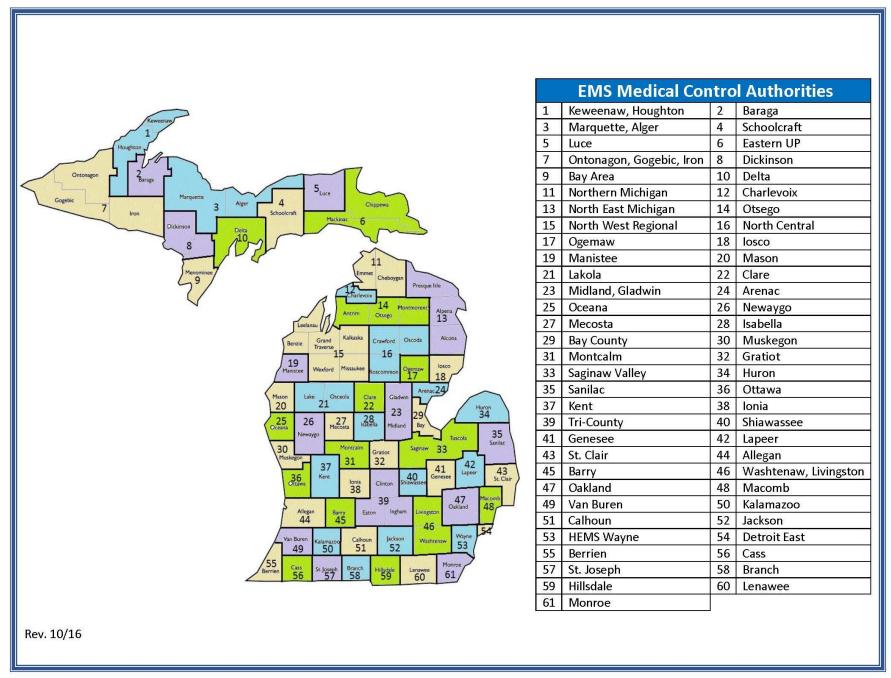
Michigan

- Population: 10 million
- Land area in square miles: 56,539
- 83 Counties
 - Wayne County
 - Population: 1,790,000
 - Population density: 2,661/sq mile
 - Keweenaw County
 - Population: 2,197
 - Population density: 0.4 /sq mile
- 5 hours to drive east/west across the UP
- 3.5 hours to drive east/west across the LP
- 5 hours north/south in LP



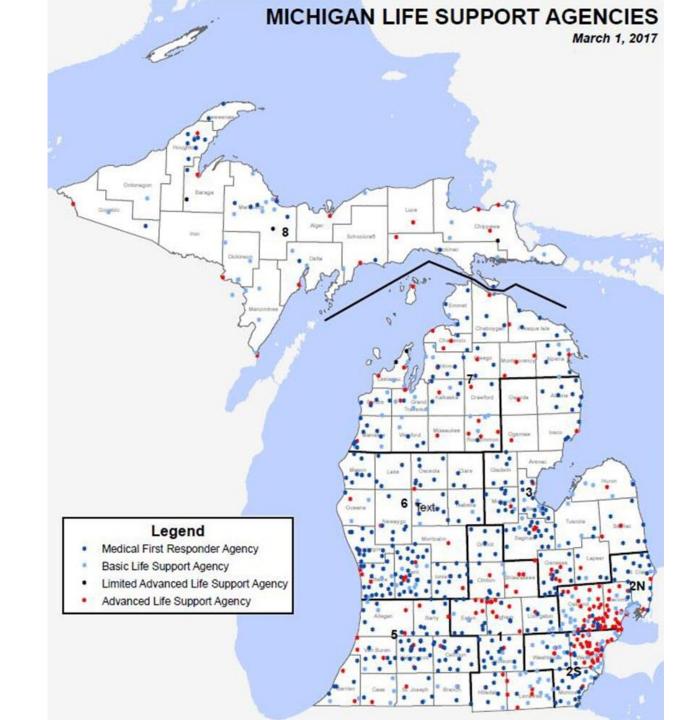
Medical Control Authorities

 A Medical Control Authority (MCA) is an organization designated by the department for the purpose of supervising and coordinating an emergency medical services (EMS) system, as prescribed, adopted, and enforced through department-approved protocols for a particular geographic region.



EMS Statistics

- 800 EMS Agencies (all levels)
 - 220+ ALS Agencies
 - 4,500-5,000 licensed vehicles
- 28,000 Licensed Personnel
 - 9,000 licensed paramedics
 - 300 licensed AEMT
 - 13,000 licensed EMT
 - 6,000 licensed MFR



Two more things that may be different

When you can work as a paramedic, AEMT, EMT or MFR (and call yourself such)

- Licensure
 - NOT handled by the Department of Licensing and Regulatory Affairs – by the Office of EMS (MDHHS).
- Ability to practice (PA 368)
 - Michigan EMS licensed personnel
 - Michigan EMS licensed agency (not in a hospital or any other entity)
 - Michigan EMS licensed vehicle
 - MCA approval/privileges/credentialing
 - MCA and MDHHS approved clinical protocols

Agency Medical Director

- Not a thing in Michigan (used pretty much only for CAAS accreditation)
- No recognition or medical authority in the state of Michigan
- Most agencies don't have them

The Michigan Experience

• Grant 1: 2018-2019

• Grant 2: 2020-2021

Not Fluid

Goal Overall Budget

Fluid

Strategic Plan Workflow Budget Allocations





Initial Assessment



- <u>Type of Agency/Entity</u>: Private (not for profit/for profit); municipality; fire-based, hospital owned agency; hospital system
- Language: Inconsistent
- Education: 20-160 hours, home grown
- <u>Work/lines of service</u>: Team based, autonomous, follow-up, 9-1-1 ED diversion
- <u>Documentation</u>: EMR/paper, EMS or hospital platform
- <u>Vehicle</u>: Licensed, unlicensed
- Protocols: Inconsistent
- Oversight: Varied greatly
- Funding: Varied, generally operating at a loss
- Start up: Lengthy, complicated

Work it backwards (simplified)

Goal: Sustainable regulated practice incorporated into the current EMS system

- Sustainability = Payors
- Payors want a regulated/reliable product supported by data
- Regulation requires standards for practice
- Standardized practice requires standardized education
- Standardized education requires agreement on scope & role
- All of this requires standardized terminology

Strategic Plan based on initial assessment

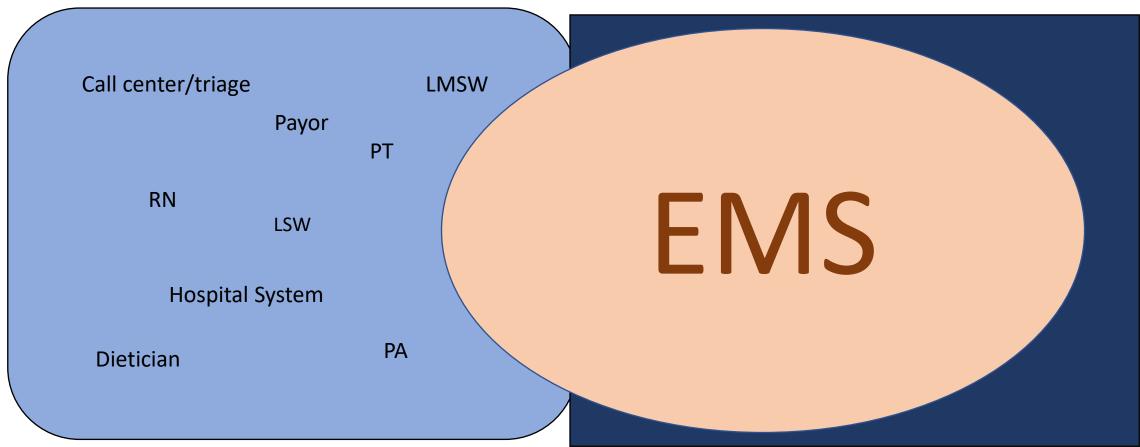
Cornerstone creation

- Language /Labeling
- Education
 - Minimum standard curriculum
 - Mini grants for tuition
- Protocols
- Regulatory/Legislative
- Data/Documentation

Streamlined special study application

Make connections for programs (start toolkits)

Educate/inform/stay connected

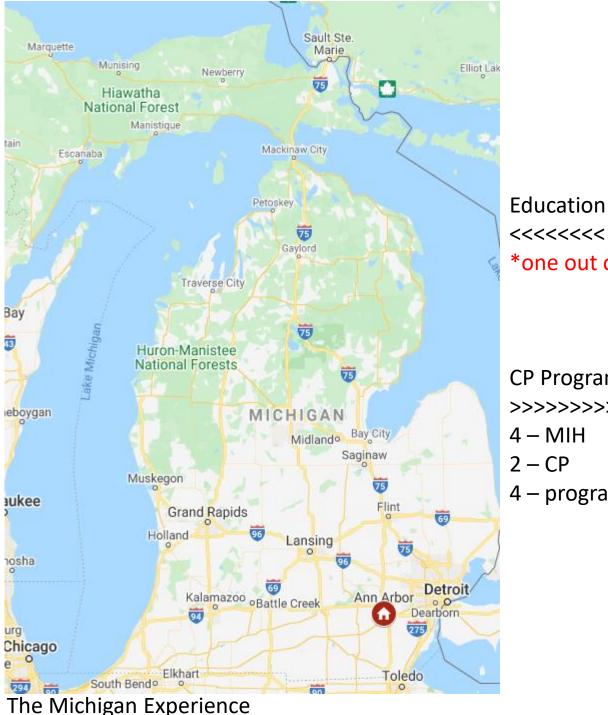


Enclosed systems
Team based
20-40 hours education

Open System
Autonomy
150 + hours education

<u>Community Paramedicine</u> + Mobile <u>Integrated</u> Health = <u>Community Integrated Paramedicine</u>

CP + MIH = CIP



Education

*one out of state school

CP Programs

>>>>>>>

4 - MIH

2 - CP

4 – program pause



Stakeholder Input

Community Paramedicine Workgroup



- Community Integrated Paramedicine Workgroup
 - Scope & Role
 - Education
 - Data & Documentation
 - Regulatory
 - Sustainability

Michigan Protocol Suite

Program Protocols (must have or equivalents to)

- 11-01 CIP Program Policy
- 11-02 CIP Medical Director Roles and Responsibilities
- 11-03 CIP Medical Direction
- 11-04 CIP Scope of Service/Treatment Capabilities
- 11-05 CIP Documentation
- 11-06 CIP Program Enrollment
- 11-07 CIP Patient Service Plan/Care Plan
- 11-08 CIP Program Discharge

Michigan Protocol Suite (à la carte)

Procedure Protocols

11-26 CIP Fall Risk Reduction Assessment

11-27 CIP SDOH Assessment

11-28 CIP Medication Audit

11-29 CIP Feeding Tube

11-30 CIP Urinary Catheter

11-31 CIP Ostomies

11-32 CIP Nasal Packing

11-33 CIP Specimen Collection

11-34 CIP Point of Care Testing for Blood Analysis

11-35 CIP Suture Removal

11-36 CIP Otoscope

11-37 CIP PICC Access

11-38 CIP Vaccinations

11-39 CIP Naloxone Leave Behind

11-41 CIP Naloxone Medication Kit Contents and Distribution

Treatment Protocols: Chronic Condition Care

11-50 CIP Patient General Assessment and Care

11-51 CIP Diabetic Care

11-52 CIP Asthma Care

11-53 CIP Chronic Obstructive Pulmonary Disease Care

11-54 CIP Congestive Heart Failure Care

11-55 CIP Chronic Hypertension Care

11-56 CIP Post MI or Cardiac Intervention Care

11-57 CIP Post Orthopedic Surgery Care

11-58 CIP Post Stroke Care

11-59 CIP Prenatal Care

11-60 CIP Mother/Infant Postpartum Care

11-61 CIP Sleep Apnea Care

11-62 CIP Wound Care

11-63 CIP Substance Use Disorder Care

Treatment Protocols: Complaints

11-75 CIP Skin Rash Complaints

11-76 CIP Urinary Complaints

11-77 CIP Gastrointestinal Complaints

11-78 CIP Suspected Respiratory Infection Complaints

11-79 CIP Sore Throat Complaints

11-80 CIP Nontraumatic Nosebleed Complaints

State of Michigan staying in our own lane

MIH – Henry Ford Health System – not our lane

no longer a special study

EMS Agency - none

People: not called paramedics

Vehicles: not ambulances/regulated by Office of EMS

Care: not under state purview

Protections: hospital staff – not EMS PA 368

MIH - Tandem 365 (large team – physicians, nurses, social workers, dietician, physical therapy, CPs) – very small part is in our lane

EMS Agency – <u>Life EMS</u>

People – MIH Paramedics (transitioned to CPs)

Vehicle – licensed EMS vehicle

Care – State protocol suite for CPs (adjusted to match care of the entire team)

Protection – PA 368 for CPs

MIH – RSVP (RN, physician, MIH paramedic) – most is in our lane

EMS Agency – **Bloomfield Township Fire Department**

People - MIH Paramedics (50+)

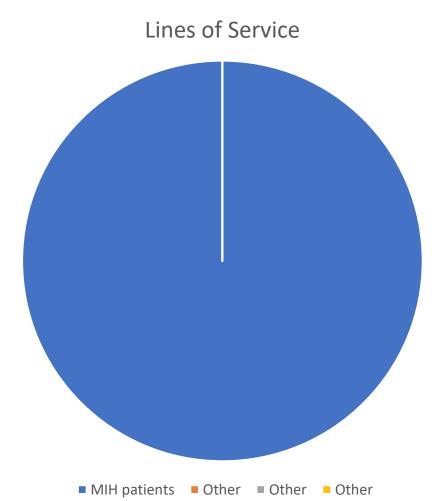
Vehicle – licensed EMS vehicle

Care – yet to transition to state protocol suite

Protection – PA 368 for MIH Paramedics

<u>Star EMS</u> – does the exact same thing as Bloomfield but in a different geographic area – same hospital, set up, physician, etc.

Life EMS (MIH Example)



Protocols

All Program Protocols SDOH, Fall Reduction, Med Audit, General Assessment

Procedure Protocols (vaccinations, specimen collection)
Complaint/Treatment Protocols – GI & Urinary
Applicable Chronic Condition Protocols
most 'traditional' chronic diseases – protocols
customized.

Does not have

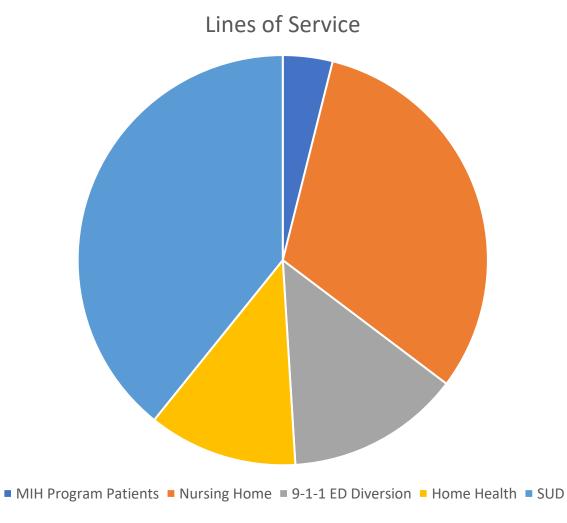
Maternal Infant

SUD

Naloxone Leave Behind

20

What Life EMS as a CP Program COULD look like



Protocols

All Program Protocols SDOH, Fall Reduction, Med Audit, General Assessment

Procedure Protocols (most if not all)
Complaint/Treatment Protocols (most if not all)

How to choose lines of service & protocols

Agency data

Partnerships

State data

Biospatial

Hunches (supported by evidence)

Funding requirements

Needs Assessments (CHNA)

MDHHS Partners

- Chronic Disease
 - Diabetes (DSME)
 - Asthma
 - Cardiovascular (Cardiac Rehab)
 - Smoking Cessation
 - HTN (numerous projects)
 - Stroke (MOSAIC)
- SAMHSA
 - SUD
 - Mental Health

- Local Health Depts
- Maternal/Infant
- Disabilities
- Veterans Affairs
- Immunizations
- Rural Health
- Trauma Prevention

Connect...connect...connect

- Center for Health & Research Transformation (CHRT) University of Michigan – data analytics - statewide
- Integrated Michigan Patient-Centered Alliance in Care Transitions (I MPACT) payors
- Institute for Public Policy and Social Research (IPPSR) Michigan State University
- Center for Behavioral Health and Justice Wayne State University
- Michigan Pharmacy Association
- Grand Valley

Legislative Language

One page

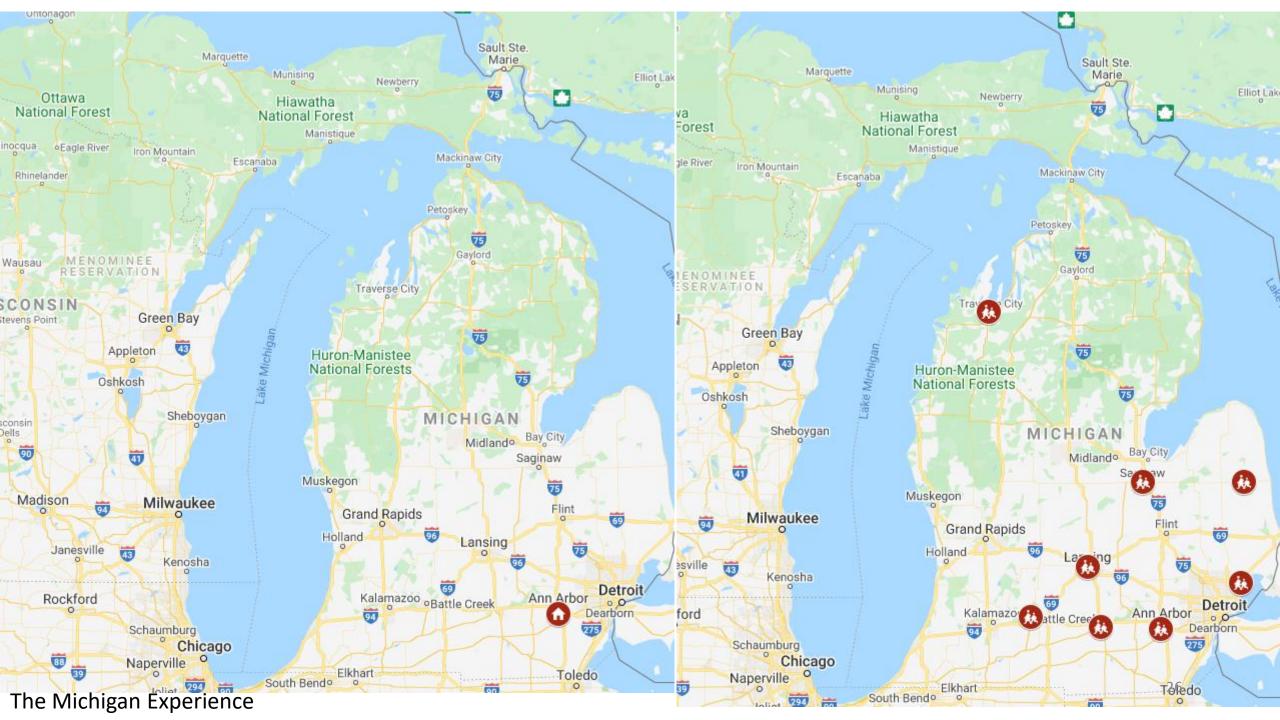
- Definitions
- Person
- Education
- Program (agency)

• Step 1

- Draft A > Legislative Liaison > Legislative Champion
- Draft A > Emergency Medical Services Coordination Committee (EMSCC)
- Draft A > Public Comment

Step 2

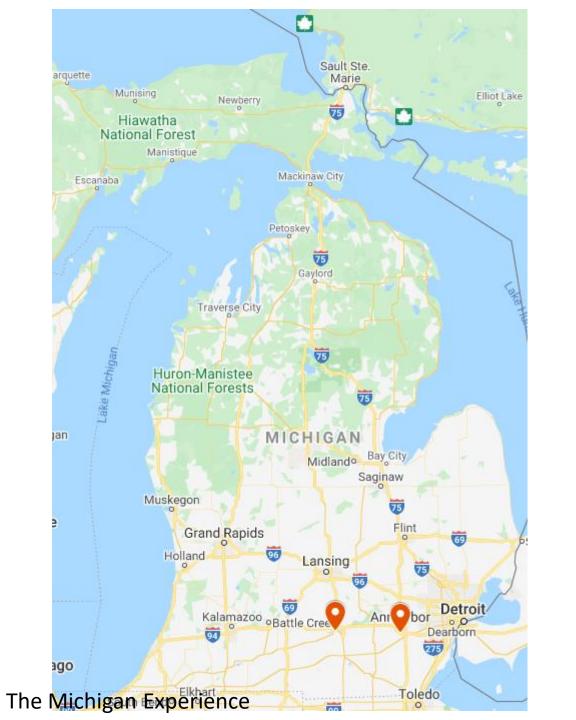
- Representative Doe drafts the bill and goes through the process
- That draft comes back to EMSCC and goes out for public comment
- Step 3
 - Formal hearings/process/vote

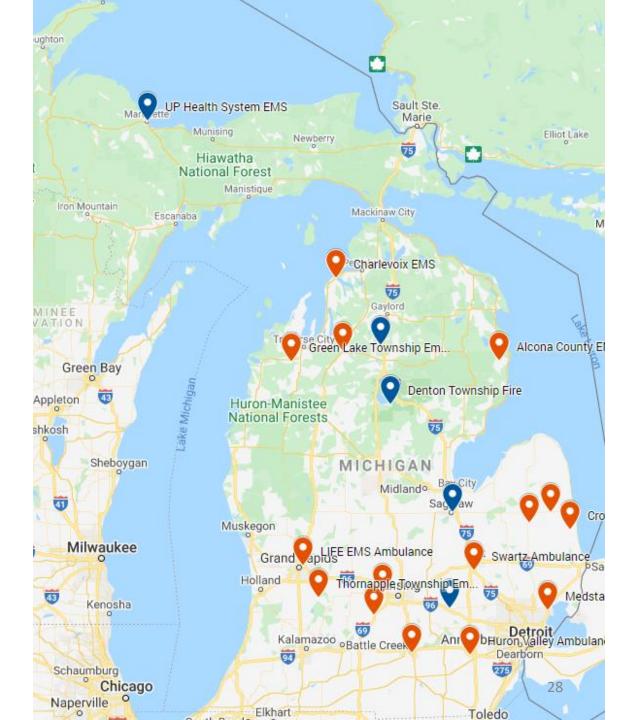


Personnel

- 69 -license ready
- 40 almost license ready (paperwork)
- 24 transitioning from MIH
- **133 CP Providers**

1-12 providers per agency average reciprocity between MCAs – opportunity for more programs





Statewide Data Collection

- Documentation = Data
 - You can't collect what you don't document
- Data = Best Practices/Sustainability Opportunity

PROBLEM(s):

EMS documentation is not equipped to capture CP Work solution: custom elements & additional mapping to USEFUL codes

12-20 vendors in MI

solution: persuade vendors to incorporate custom elements & fund when needed

CIP data siloed from EMS data

solution: integration

Why not dream big?

- Patient information should not be siloed within EMS
 - CIP records can be different but not separate this not acceptable
- Outcomes should be available (HIE)
- Billing opportunities from documentation should be available
 - SNOMED
 - ICD-10

We are not a transportation industry
Start with CIP and transform EMS
It's time

Sustainability

Payors

- Statewide payment opportunities require
 - Language
 - Evidence
 - Capacity & regulatory standards

Pilot grants

- Several MDHHS partners have pilot programs of their own for which they have received grant funds
 - Utilize CIP and fund that piece of the agency's pie with the grant funds they (MDHHS partner) received

Contracts

- Agency to payor (private insurance)
- Agency to health care system (usually up-front funding)
- Agency to SNF/HH/similar

ALSO

- Pandemic
 - Telehealth
 - Vaccine scramble
 - mAb
- SUD
 - Transitioned from CIP to all of EMS
 - Leave behind
 - Harm reduction
 - Physical assessment
 - Connecting to rehabilitation
 - Vaccinations
 - QRT (plus)

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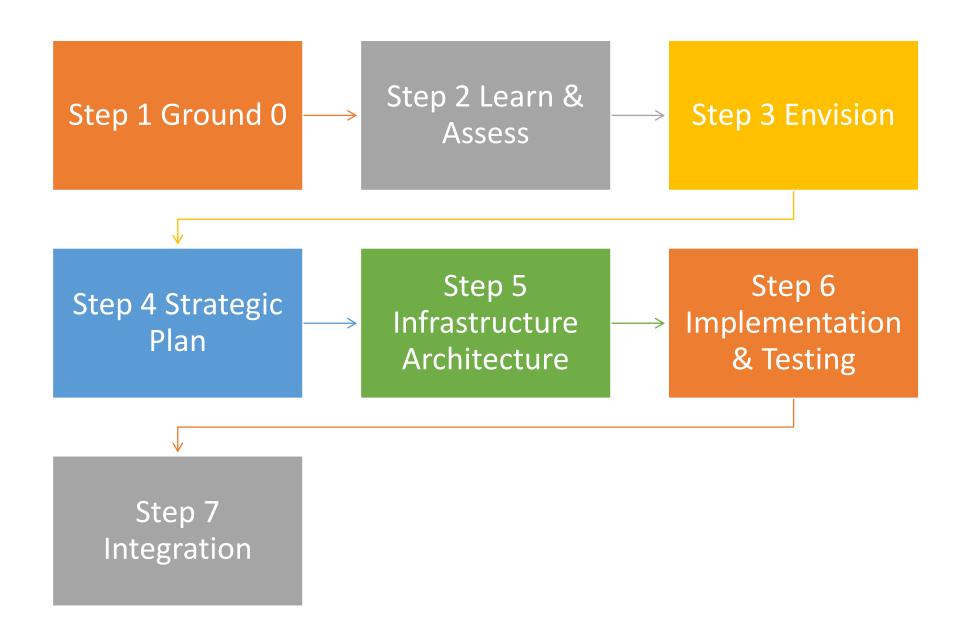
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Continuous Collaboration

- CIP Virtual Assembly
- Connecting state partners with programs
- Connecting health care systems with education
- Leveraging partnerships to build for all of us (beyond Michigan)
 - NAECB
 - SUD
 - Mom/Baby



Blueprint 34

Step 1 Ground 0

One person

- Agnostic & mission driven
- Organized & self-motivated
- System & street knowledge

State level organization benefits

- Access
- Resources
- Authority (caution use for good)

Grant funded vs. FTE

- Process time is different than man hours
- Pandemics, short staff, trucks down, etc.

Step 2 Learn & Assess

- Learn state structure, laws, rules
- **READ** the papers and toolkits of others don't reinvent the wheel. Connect with other states
- Evaluate programs within the state without judgement.
 - Program Survey (template)
 - Review protocols, policies and procedures, lines of service, sustainability plan
 - Meet the staff, see their equipment and vehicle
 - What is <u>really</u> happening?
 - Look at their documentation
 - What data have they collected and how did they obtain it?
 - What are their dreams?

Step 3 Envision

- Dream it: Envision the wildest largest product possible!
 - Workgroup & Sub-workgroups
 - Not too large
 - Talk to EVERYONE present wherever possible
 - COLLABORATE...COLLABORATE...
 - COLLABORATE...COLLABORATE

Always share what you learn - most people only know what <u>THEY</u> are doing.

Ask don't tell

Step 4 Strategic Plan

- Work it backwards
- Plan it forwards
- Process (not man hour) timelines
- Incorporate all wishes of stakeholders
- Identify infrastructure needs

Step 5 Infrastructure Architecture

Education

Person

Agency/Entity

Documentation – Grant 2

Data – Grant 2

System Integration (or Project Steward)

Accessibility & Marketing

Test EVERYTHING

Step 6
Implementation
& Testing

- Education
- Start up process
- Protocol practicality
- Expansion capacity

This requires an incredible amount of organization and follow through

Step 7
Integration

Steward or Integration?

Steward: Oversight for eternity (GF)

Integration: **same means process not specific requirements**

Education – same as other initial education Licensure – same as other licensures Audits – same as other audits CE's – same as other CE's

Inspections – tacked on to regular inspection (agency & vehicles)

Compliance – same as other complaints

• Examine how the current processes are funded and ensure this 'new' sector generates funds in the same way as all other licensures OR budget for it

Tips

Build for potential

Choose wisely: words, staff, approach

Be patient

Transparency

Collaborate

Ask questions/ask for help

Be a facilitator

DEI lens



Michigan Resources

MDHHS EMS Website

Stay connected to Michigan CIP

Grant Received by MDHHS for Community Paramedicine

MHEF 2017 RFP

Michigan CP Grant Proposal 2017

Michigan CP Grant Proposal 2017 Workflow and Budget

Michigan CIP Grant Proposal 2019

Michigan CIP Grant Proposal 2019 Workflow and Budge

Position Description

Documents

Michigan Scope and Role – Concept Document 2018

Michigan CIP Minimum Curriculum V2 2019

Michigan CIP Protocol Suite 2021

EMS CIP Special Study Application 2021

PA 368 Section 209

CIP Legislative Draft Language for input 2021

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