

Northwest Community EMS System Report 3/18

*"Partners in innovation...
Standing in the gap for you every day!"*



NCH Paramedic Program OUTCOMES SUMMARY

Name of Paramedic Program: Northwest Community Healthcare
Cohort/Program Number: 2017-18

	Graduation year - class of				Percent	2 y total	5 yr total
	2015	2016	2017	2018			
Enrollment	28	28	28	28			
Graduates	28	27	26	26			
Outcome assessments							
Admission			92%	100%	>100%		
Retention			93%	90%	>100%		
Intensive placement			26/28	25/27	96%		
Vehicle written % of gross attempts			20/20	20/20	100%		
Vehicle written Pass rate			100%	100%	100%		
Vehicle written Pass rate			20/20	20/20	100%		
Vehicle practical % of gross attempts			26/28	25/27	96%		
Vehicle practical Pass rate			100%	100%	100%		
Comprehensive final written % of gross attempts			26/28	25/27	100%		
Comprehensive final written Pass rate			100%	100%	100%		
State exam written % of gross attempts			25/28	25/27	93%		
State exam written Pass rate			100%	100%	100%		
State exam practical % of gross attempts			NA	NA	NA		
State exam practical Pass rate			NA	NA	NA		
Employer survey % returned			14/15	12/13	75%		
Employer survey cognitive			4.7/5.0	4.8/5.0	3.5		
Employer survey psychomotor			5	4.8/5.0	3.5		
Employer survey affective			5	4.9/5.0	3.5		
Graduate survey % returned			100%	100%	90%		
Graduate survey cognitive			4.5	4.5	3.5		
Graduate survey psychomotor			4.5	4.5	3.5		
Graduate survey affective			4.5	4.5	3.5		

* One student failed academically; one became very ill and needed to withdraw from internship

Expected outcomes of professional education



Conceptual competence:
Ability to understand theoretical foundations of the profession

Year Semester averages	EMS 210	EMS 211	EMS 212	EMS 213	EMS 216	Cum GPA
	Prep	Resp/Card	Med Emerg	Trauma Sp. Pop.	Seminar	
F15/S16 N=30	91.78	92.28	88.89	92.05	91.62	91.40
F16/S17 N=29-28	91.9	91.25	89.4	92.15	92.42	91.42
F17/S18 N 27	91.2	91.72	88.95	92.02		

Year Mod Exam ave. scores	EMS 210	EMS 211	EMS 212	EMS 213	EMS 216	Cum GPA written only
	Prep	Resp/Card	Med Emerg	Trauma Sp. Pop.	Seminar	
F15/S16 N=30	93.3	91.34	91.62	92.52	90.41	91.84
F16/S17 N=29-28	93	93.56	90.45	92.26	91.11	92.08
F17/S18 N 27	93.3	93.56	91.96	91.13		



Under duress

We do not rise to our **expectations**
We fall to the level of our preparation & **training**



Technical competence:
Proficiency in performing psychomotor skills

Goal:
Complete requirements by
June 8, 2018

2018 JUNE

SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7	8	
10	11	12	13			
17	18	19	20	21	22	23
24	25					

Final written

Graduation

NR Practical exam

2018 Paramedic Program
Admission Requirements

Important Dates
Fall 2018 Paramedic Program Application Dates: February 1, 2018–June 22, 2018*
Program Start: August 31, 2018

*June 22, 2018 is the application deadline; all req (check the program was able to run)

Northwest Community Healthcare Paramedic Program
Academic Calendar F18 - S19 (Draft (MKG, 1/4/19))

Attend an Information Session
Submit College App
If you haven't already applied to the College, following steps:
Schedule the EMT
Applicants must demonstrate minimally acceptable scores to be accepted into the paramedic class February 1, 2018, to obtain the Validation I registration instructions. Questions about the [disco@nccoh.org](#)

A score of 80% or higher is considered pass; exam if they score less than 80% on the first one time should note that first attempt so acceptance and the process for securing it

Applicants who receive a score of 80% or high at Northwest Community Hospital:
The Paramedic Program Supplemental is submitted to the NWC EMS Office
The Paramedic Program Application, who

Assumed knowledge: Medical Terminology

Date	Time	Topic	Pre-class prep	Class Activity	Faculty
8/31/18	0900-1200	Start EMS 210 Written: Orientation orientation of hospital, student expectations Consent for photography	Student review Review of paramedic information Student review contact Consent for medical procedures Consent for photography	Lab/practice activity Review of applied anatomy, Sign & patient appraisals, applied anatomy	M. Gentile
9/5/18	0900-1200	Workplace safety and wellness: Stress & injury prevention, blood borne pathogens, preventing spread of disease, PPE, public health issues, health promotion, stress	Read: 1. Student Course, 2009 14. Impaired practice 3-7 Stress Intervention/CDM	Skills & Application: Flow chart recognition use of PPE and appropriate enclosure follow-up	M. Gentile
9/5/18	1300-1500	EMS Systems Communications: Patient assessment, communication with other health care professionals, team communication & teamwork	Read: 1. Student Course, 2009 14. Impaired practice 3-7 Stress Intervention/CDM	Role playing calling CDM for a BLS patient	M. Gentile
9/5/18	1500-1700	EMS Systems Standards of practice: 30%, Policy manual Resuscitation manual	Read: 1. Student Course, 2009 14. Impaired practice 3-7 Stress Intervention/CDM	White board lighting scenarios/CDM BLS & Policies based on System website CDM/CDM/CDM CDM/CDM/CDM	Chris Dore
9/5/18	0900-1200	EMS Systems Standards of practice: 30%, Policy manual Resuscitation manual	Read: 1. Student Course, 2009 14. Impaired practice 3-7 Stress Intervention/CDM	White board lighting scenarios/CDM BLS & Policies based on System website CDM/CDM/CDM CDM/CDM/CDM	C. Maters

Northwest Community EMS System
EMERGENCY COMMUNICATIONS REGISTERED NURSE (ECRN) COURSE
April 5 – May 30, 2018

Date	Time	Topic
PRE-COURSE – Optional attendance based on pretest scores and/or hospital prerogative		
April 5, 2018	9:00 am – 9:30 am 9:30 am – 12:00 pm 12:00 – 1:00 pm 1:00 – 5:00 pm	Introduction/Welcoming Respiratory A&P, SpO ₂ & ETCO ₂ Lunch Electrocardiography & ECG interpretation (baseline assessment) C. Maters C. Maters
April 12, 2018	9:00 am – 12:00 pm 12:00 – 1:00 pm 1:00 – 5:00 pm	Fluids & electrolytes Lunch Pathophysiology of hypoperfusion and shock – all forms Distribute take home Quiz #1 V. Logan K. Buchanan
COURSE		
April 18, 2018	9:00 am – 12:00 pm 12:00 – 1:00 pm 1:00 – 5:00 pm	EMS Systems: Structure/Standards SOPs; Policy manual; Procedure manual; Code of Ethics Role expectation of an ECRN EMS Systems cont.: Communications/Documentation Policies: EMS Communications; Documentation of EMS Communications Log ECRN Physician Back-up Confidentiality of Patient Records/HIPAA Procedure for Handling Overrides Abandonment vs. Prudent Use of EMS Personnel Aeromedical transport; Bypass; Crisis Response Refusals; Physician/Nurse On-Scene C. Maters C. Maters
April 25, 2018	9:00 am – 12:00 pm	SOP Intro: General Patient Assessment/Initial Medical Care Drugs: Ondansetron, fentanyl, atropine, albuterol Policies: Scopes of practice; Initiation of ALS vs. BLS Care Selection of Receiving Hospital Withholding or Withdrawing Resuscitative Efforts; DNR; Triple Zero Medical Examiner/Coroner Guidelines C. Maters



NORTHWEST COMMUNITY EMS SYSTEM - Drug/Supply/Equipment List
Last revised: 3/13/18

KEY: ALS, BLS & ALS, BLS & ALS, BLS & ALS

Real-time CPR Feedback: Req. 6-1-18
King Vision: Req. 7-1-18 unless 1 month waiver
CPR devices: may be game changer for SOPs

LifeLine ARM Defibrillator: Kevin Schwan, AED Professionals, 348 W. Colfax, Peoria, IL 61602, (309) 202-3233, C: (309) 702-3858, Kevin@aedprofessionals.com
LUCAS™ 2 or 3 Chest Compression System (PhysioControl) – Ed Fee, ed.fee@stzyler.com; (708) 408-1142 ext. 72300
ROSC-U: Kathy Trumpower, Bound Tree Medical | Northern IL Account Manager
Mobile 312.339.8498 | Fax 614.973.7298, kathy.trumpower@boundtree.com

NORTHWEST COMMUNITY EMS SYSTEM
Northwest Community Hospital
901 W. Kinross, EMS offices
Arlington Heights, IL 60005
Phone: 847-618-4480
Fax: 847-618-4489

Date: February 20, 2018
To: All System members
From: Matthew T. Jordan, MD, FACEP
EMS Medical Director
RE: Pain management & fentanyl dosing clarification (update from #331)

System Memo: # 370

I have been asked to clarify current pain management goals and fentanyl dosing under the 2016 SOPs to update the System memo issued in August of 2011. Below are the standards with respect to pain management included in the 2016 SOP roll-out Changes and Rational document:

Pain management clarified as extracted and modified from Joint Commission pain mgmt guidelines.


- The System educates all licensed practitioners on assessing and managing pain.
- Each System member respects the patient's right to pain management.
- EMS personnel assess and manage the patient's pain.
- Requirements for what should be addressed in EMS policies include:
 - EMS practitioners conduct a comprehensive pain assessment that is consistent with their scope of care, treatment, and services and the patient's condition.
 - EMS practitioners use methods to assess pain that are consistent with the patient's age, condition, and ability to understand.
 - EMS practitioners reassess and respond to the patient's pain, based on reassessment criteria.
 - EMS practitioners either treat the patient's pain, or refer the patient for treatment. Treatment strategies for pain may include pharmacologic and non-pharmacologic approaches. Strategies should reflect a patient-centered approach and consider the patient's current presentation, the health care providers' clinical judgment, and the risks and benefits associated with the strategies, including potential risk of dependency, addiction, and abuse.

Region EMS MDs encourage all Systems to establish education programs, policies, and procedures that improve the

- [FDA Drug Shortages](#)
- [Bupivacaine Hydrochloride and Epinephrine Injection, USP](#) (Updated - Currently in Shortage)
- [Bupivacaine Hydrochloride Injection, USP](#) (Updated - Currently in Shortage)
- [Calcium Chloride Injection, USP](#) (Updated - Currently in Shortage)
- [Cefepime Injection](#) (Updated - Currently in Shortage)
- [Deferoxamine Mesylate for Injection, USP](#) (Updated - Currently in Shortage)
- [Dextrose 50% Injection](#) (Updated - Currently in Shortage)
- [Diltiazem Hydrochloride](#) (Updated - Currently in Shortage)
- [Dobutamine Hydrochloride Injection](#) (Updated - Currently in Shortage)
- [Dopamine Hydrochloride Injection](#) (Updated - Currently in Shortage)
- [Epinephrine Injection, 0.1 mg/mL](#) (Updated - Currently in Shortage)
- [Fentanyl Citrate \(Sublimaze\) Injection](#) (Updated - Currently in Shortage)
- [Heparin Sodium and Sodium Chloride 0.9% Injection](#) (Updated - Currently in Shortage)
- [Hydromorphone Hydrochloride Injection, USP](#) (Updated - Currently in Shortage)
- [Lidocaine Hydrochloride \(Xylocaine\) Injection](#) (Updated - Currently in Shortage)
- [Lidocaine Hydrochloride \(Xylocaine\) Injection with Epinephrine](#) (Updated - Currently in Shortage)
- [Metronidazole Injection, USP](#) (Updated - Currently in Shortage)
- [Morphine Sulfate Injection, USP](#) (Updated - Currently in Shortage)
- [Potassium Chloride IR](#) (Updated - Currently in Shortage)
- [Sodium Acetate Injection](#) (Updated - Currently in Shortage)
- [Sodium Chloride 23.4](#) (Updated - Currently in Shortage)
- [Sodium Phosphate In](#) (Updated - Currently in Shortage)
- [Sterile Water](#) (Updated - Currently in Shortage)
- [Sumatriptan \(Sumave](#) (Updated - Currently in Shortage)

March 5, 2018

- [FDA Drug Shortages](#)
- [Ketamine Injection](#) (Updated - Currently in Shortage)
- [Piperacillin and Tacobactam \(Zosyn\) Injection](#) (Updated - Currently in Shortage)
- [Sodium Chloride 0.9% Injection Bags](#) (Updated - Currently in Shortage)
- [Sterile Water](#) (Updated - Currently in Shortage)



**NORTHWEST
COMMUNITY
EMERGENCY
MEDICAL
SERVICES
SYSTEM**

Northwest Community Hospital
901 W. Kirchoff, EMS offices
Arlington Heights, IL 60005
Phone: 847-618-4480
Fax: 847-618-4489

Post for all EMT-Ps/PHNs/
ECRNs: QLMC physicians

Date: March 13, 2018

To: All System members

From: Matthew T. Jordan, MD, FACEP, EMS Medical Director

RE: **Pain management options due to drug shortages**

System Memo: # 371


URGENT PRACTICE UPDATE

This memo is a follow-up and extension of System memo #370 on pain management. All of the usual drugs used by EMS for pain management are on shortage and several system hospitals are totally out of fentanyl and morphine for EMS exchange. **Business as usual is not possible.** Thus, we are implementing the **Emergency Drug Alternative SOP** – and activating several options for EMS in the field.

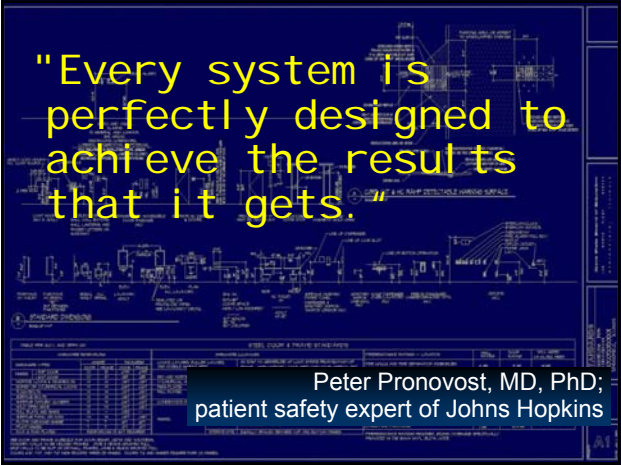
#1 If **FENTANYL** cannot be restocked, reduce inventory from 3 vials/syringes to 2 (200 mcg) or less until gone. Pull fentanyl from reserve rigs and transfer to front line vehicles, leaving none on the rig. Make appropriate notes on the Controlled Substance Logs to reflect actual inventory.

#2 If no **FENTANYL**: Substitute **MORPHINE**: 10 mg/2mL (if available)

Name	Dose/Routes	Actions	Indication for EMS	Contraindications/Precautions
MORPHINE	0.1 mg/kg (no more than 2 mg)	- Narcotic analgesic - can advance effects of	SBP > 90 (MAP > 65) - Severe pain where	- Allergy - Taken MPN inhibitors



"Every system is perfectly designed to achieve the results that it gets."



Peter Pronovost, MD, PhD,
patient safety expert of Johns Hopkins

4



EMS AGENDA 2050

Envision the Future

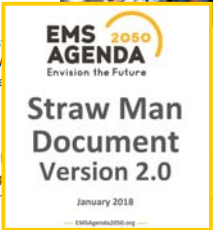
EMS Agenda 2050 is a collaborative and inclusive two-year project to create a bold plan for the next several decades. EMS Agenda 2050 will solicit feedback from members of the EMS community to write a new Agenda for the Future that envisions innovative possibilities to advance EMS systems.

History

Twenty years ago, pioneers and leaders in the EMS industry and evidence-based systems in the EMS Agenda for the Future worked tirelessly to fulfill the vision set out in that landmark document.

What's Happening Now

Throughout 2017 and 2018, the EMS community will work to shape the future of EMS. Community members, stakeholder organizations, and the public are encouraged to get involved in writing a new Agenda for the Future for the next thirty years of EMS system advancement.



EMS Agenda 2050
Envision the Future
Straw Man Document
Version 2.0
January 2018

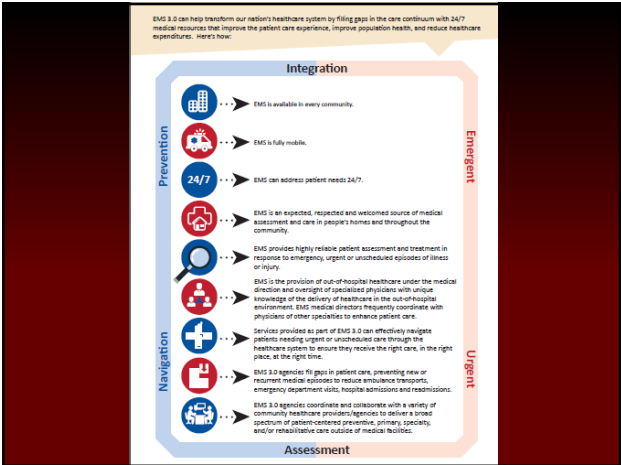
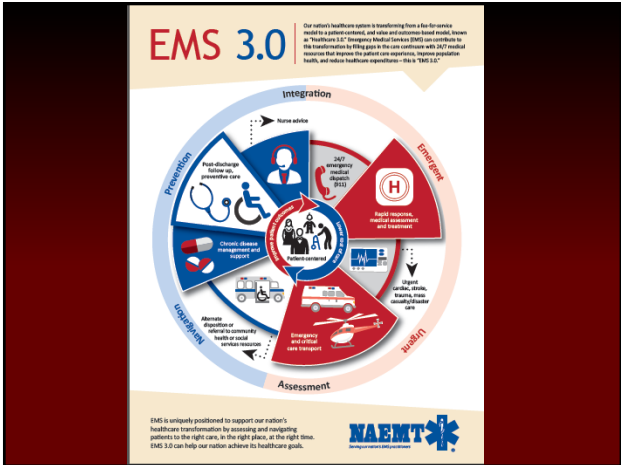
What else is driving changes in the State & System's planning?

EMS 3.0 Summit

Tuesday, April 10, 2018 (full-day program with luncheon) - Hilton Crystal City, Arlington, Virginia

Learn strategies to navigate healthcare change. Integrated, value-based patient care is the cornerstone of our evolving healthcare system. To thrive, EMS agencies must expand their services to provide the full spectrum of out-of-hospital patient care - emergent, urgent and preventive.

This year's Summit will present "profiles in courage" case studies of EMS agencies that have expanded their services. Lessons learned including best practices, as well as pitfalls and challenges, will be discussed. Hear directly from EMS leaders who have made the 3.0 model work for their agencies and communities.




National EMS Scope of Practice Model Revision Project

[Expert Panel](#)

[Request for Feedback!](#)

- NASEMSO Press Release:** [Request for Comments on Revised Portions in the 2007 National EMS Scope of Practice Model](#) (12/12/17)
- Download:** [National EMS Scope of Practice Model Revision Draft 2](#) (12/12/17)
- Submit Comments:** Feedback should be submitted [online](#). The comment period will conclude at **5:00 p.m. EST on Feb. 10, 2018**.



**NATIONAL EMS
SCOPE OF PRACTICE MODEL
REVISION
2018**

NHTSA to host March meeting at DOT Headquarters, Washington, D.C., to review findings of a systematic review of literature and conduct discussion on revising the National EMS Scope of Practice Model (SoPm)

(02/06/18) On Mar. 5-6, 2018, the National Highway Traffic Safety Administration (NHTSA) will host a meeting at DOT Headquarters in Washington, DC. This meeting represents the final in-person gathering of the subject matter expert panel for the revision of the 2007 National EMS Scope of Practice Model ("Model"). The goal of this meeting is to review the findings of the systematic review of the literature, public input gathered from two national engagement periods, and conduct discussions on revising the Model. More information on this project is available at www.emscoderefract.org. Time will be set aside in the meeting to accept comments from the registered attendees. Due to space limitations, attendance at the meeting is limited to invited participants and those who register in advance. All attendees must bring government-issued identification to gain admittance to the DOT Building. Those who do not register in advance may

Sept. 15, 2017 (Falls Church, Virginia) The National Association of State EMS Officials (NASEMSO) announces the release of the **National Model EMS Clinical Guidelines, Version 2**. This set of clinical EMS guidelines is an updated and expanded version of the guidelines originally released in 2014. Version 2, completed Sept. 8, 2017, has undergone a comprehensive review and update of the original core set of 56 guidelines, and includes 15 new guidelines. *(PDFs of the original core set of 56 guidelines can be found at www.nasemso.org.)* The effort was led by NASEMSO, along with representatives from the American College of Emergency Physicians (ACEP), American College of Emergency Medicine (ACEM), American Academy of Emergency Medicine (AAEM), American Academy of Critical Care Medicine (AACCM), American Academy of EMS (AAEMS), and Air Medical Physician Association (AMP). The guidelines were developed by a team of experts in the field of EMS, including Dr. Richard Kamin, MD, and Dr. Michael J. Pollack, MD, and others. The guidelines were developed through a process of consensus, with input from a wide range of stakeholders, including EMS providers, educators, and researchers. The guidelines are intended to provide a national standard for EMS practice, and to ensure that all patients receive the highest quality of care. The guidelines are available for download at www.nasemso.org.

NASEMSO

EMS Clinical Guidelines

VERSION 2.0

September 2017

These guidelines will be maintained by NASEMSO to facilitate the creation of state and local EMS system clinical guidelines, protocols or operating procedures. System medical directors and other leaders are invited to harvest content as will be useful. These guidelines are either evidence-based or consensus-based. *(PDFs of the original core set of 56 guidelines can be found at www.nasemso.org.)*

Sept. 15, 2017

National Model EMS Clinical Guidelines

Version 2.0

September 2017

National Model EMS Clinical Guidelines

The speed of technology expansion is exponential – moving faster than ever before in the history of mankind. Replacing generations of progress in months, weeks, and days.

www.ems.gov

Beyond
EMS Data Collection:
Envisioning an
Information-Driven Future for
Emergency Medical Services



EMSR

NEMSIS

v3.5.0 Revision Requests
Version 3.5.0 Revision Requests Under Review

SOFTWARE DEVELOPERS

Follow the standard to implement new ePCR software products for local and state EMS systems.

EMS EDUCATORS

Promote the importance of data quality and performance evaluation through accurate documentation.

GENERAL PUBLIC

Discover how EMS data can improve patient care nationwide.

29,919,652
ePCR activations in 2016

9,993
EMS agencies in 2016

7 Minutes
Fastest time from record completion to National database arrival

Submitting v3 Data v3 Implementation Plan

v3 Documents Available Limited Progress

WA, OR, CA, NV, UT, AZ, NM, TX, AK, HI, MT, WY, SD, NE, KS, OK, AR, LA, MN, IA, IL, IN, OH, PA, NY, VT, NH, ME, MA, CT, NJ, DE, MD, VA, WV, KY, TN, MS, AL, GA, FL, SC, NC, RI, CT, NJ, DE, MD, VA, WV, KY, TN, MS, AL, GA, FL, SC, NC, RI

2-18

Paramedic roles evolving

Costs, reimbursement, value-based care, need for integration, trends in patient populations (increasing # elderly) are rapidly driving change

What does this add up to?

MORE HOME. LESS HOSPITAL.

Paramedics are untapped links to bridge hospital and out-of-hospital care transitions

How are we preparing for this?

Coordinate care for all patients using multi-disciplinary teams including Mobile Integrated Healthcare (MIH) and Community Paramedics (CPs)

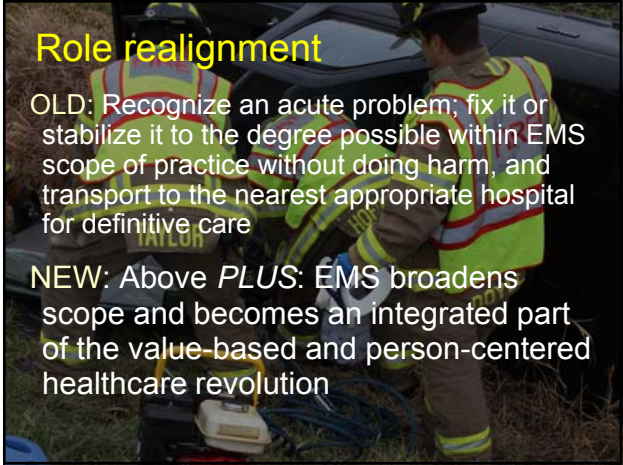
EMS AT THE HEALTHCARE TABLE

New paradigm in healthcare

Provide the **right** care, in the **right** place, at the **right** time based on **person needs & choice**, and at the **right** cost

Northwest Community Healthcare/ NWC EMS System				
PRELIMINARY PROJECT PLAN				
Mobile Integrated Healthcare Pilot				
Rev. March 14, 2018				
Planning Steps	Components/priorities	Milestones/deliverables	Accountability	Due date
Mission/Strategy/Commitment Project description and goals: Reason for doing the project & benefits	Achieving efficient and effective care transitions between settings in clinically integrated networks is key to optimizing population health in a value-based environment. Mobile Integrated Healthcare using Community Paramedics is an evolution of the NCH continuum of care model. Preliminary studies have shown that using paramedics in a preventative way can reduce healthcare spending. Field EMS agencies and practitioners can be a powerful resource as the United States struggles to reduce the cost of healthcare through preventative interventions. National EMS Advisory Council. Goal: Provide the right care, in the right place, at the right time based on person needs & choice, and at the right cost.	Strategies are identified to increase the role of field (EMS) providers in the national effort to reduce costs and improve quality in healthcare. Program meets outcome points from the Institute of Healthcare Improvement (IHI) Triple Aim initiative to optimize health system performance. 1. Improve the experience of care 2. Improve the health of populations 3. Reduce per capita cost of health care 4. Reduce avoidable readmissions in target populations by 10% 5. Patients are engaged in their ongoing healthcare management. They are compliant with chronic disease mgmt plans and challenges to compliance are explored and overcome. See section on QM below	Pilot executive steering committee S. Scoogna K. Naggy M. Jordan, MD C. Mattara Chris: Scott Andersen (Palatine PD) Rich May (Pal Rural) Terry Valentino (RMFD) Ken Kozdren (AHFD)	Goal identification completed 3/24/18
Alignment exists between the MIH program and hospital's mission, strategic goals and objectives.	Strategic pillars: Population health	A population health strategy proves a system to coordinate care across the healthcare continuum, improve health outcomes, and promote economies of scale. See care model. NCH care transition model includes aggressive management of patients at risk of readmission or an ED visit, while ensuring the patient remains clinically stable in an out-of-hospital environment. Efficient patient education and self-	K. Naggy, C. Mattara	7/20/18

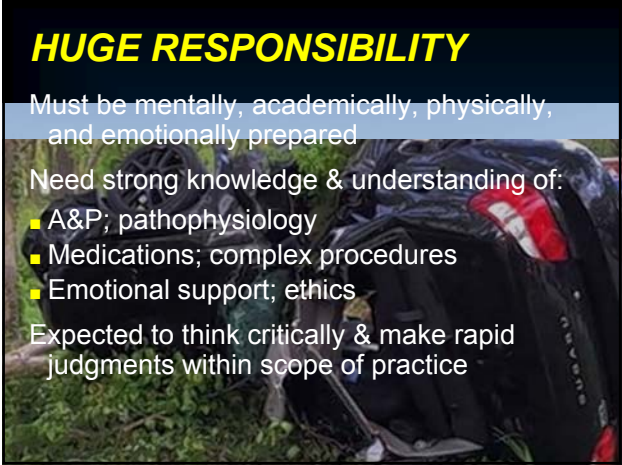
So, EMS must change with the times and emphasize the integration of EMS within the overall health care system



Role realignment

OLD: Recognize an acute problem; fix it or stabilize it to the degree possible within EMS scope of practice without doing harm, and transport to the nearest appropriate hospital for definitive care

NEW: Above *PLUS*: EMS broadens scope and becomes an integrated part of the value-based and person-centered healthcare revolution



HUGE RESPONSIBILITY

Must be mentally, academically, physically, and emotionally prepared

Need strong knowledge & understanding of:

- A&P; pathophysiology
- Medications; complex procedures
- Emotional support; ethics

Expected to think critically & make rapid judgments within scope of practice



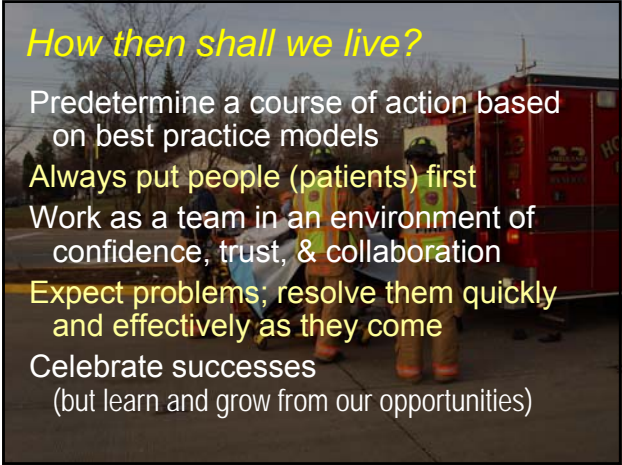
STRATEGIC PLAN
2016-2020
2018 Edition DRAFT Rev.

Prepared by:
Corrie J. Matters, M.S., R.N., EMT-P
EMS Administrative Director

Approved by:
Matthew T. Jordan, MD, FACEP
EMS Medical Director

John M. Ortinas, MD, FACEP, FAEMS
Alternate Medical Director

EMS System Advisory Board: March 8, 2018
Chiefs/Administrators



How then shall we live?

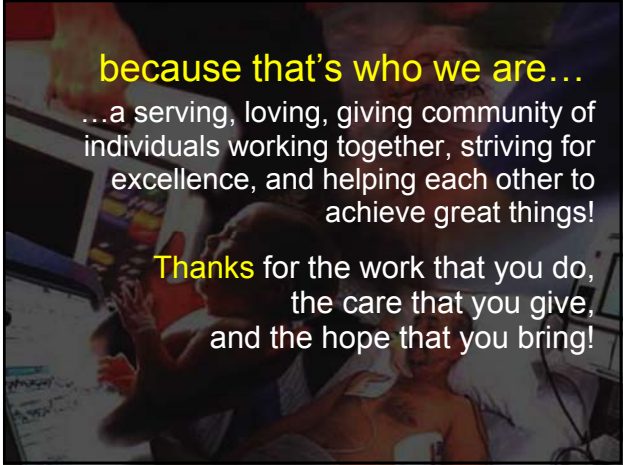
Predetermine a course of action based on best practice models

Always put people (patients) first

Work as a team in an environment of confidence, trust, & collaboration

Expect problems; resolve them quickly and effectively as they come

Celebrate successes
(but learn and grow from our opportunities)



because that's who we are...

...a serving, loving, giving community of individuals working together, striving for excellence, and helping each other to achieve great things!

Thanks for the work that you do,
the care that you give,
and the hope that you bring!



Time for action

The ball is in your court