

Disclosures

None financially
I love aviation



History continued

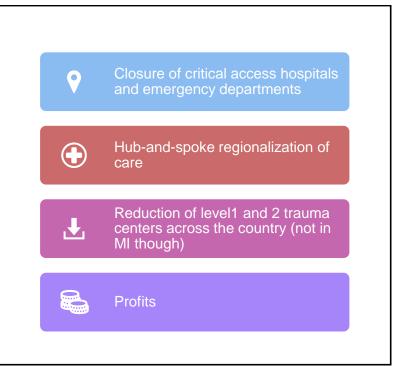
1966

"White Paper" Accidental Death and Disability
Started civilian EMS transport by comparing to

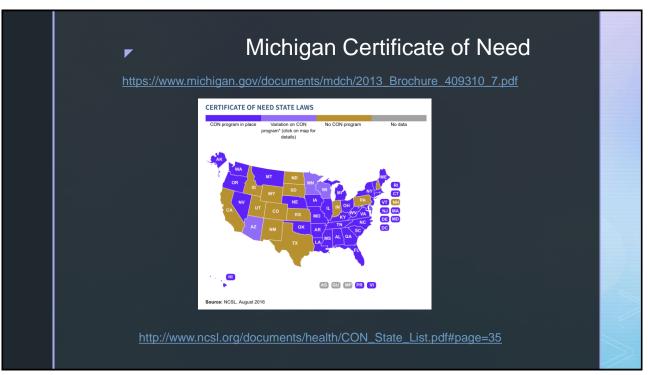
National EMS Systems Act funded 300 EMS programs/systems across the country

1973

Growth in CC transport driven by:

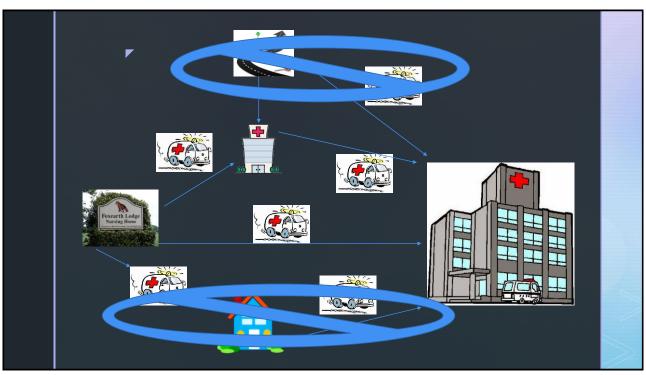


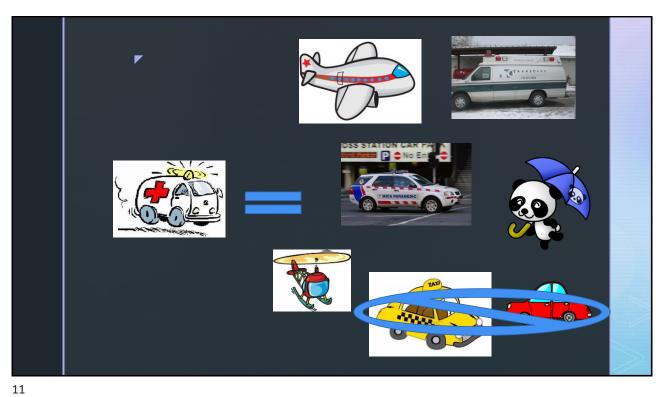
6



Objectives of Critical Care Transport

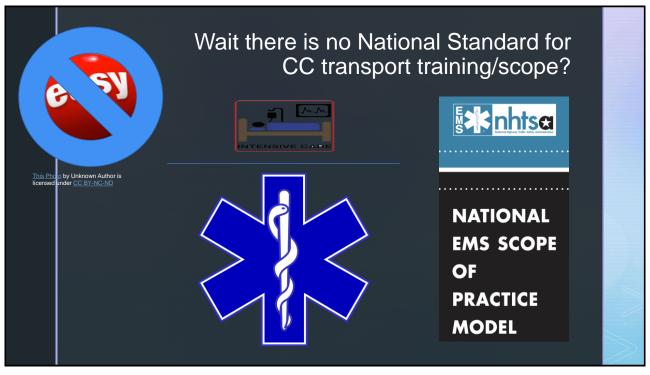
- Safely transport the critically ill but stable patient to the resources they need.
- Bring high level tertiary care to the patient and maintain that level of care during transport





Transport Vehicles	CCT Amb	RW	FW	201/	National	
Full time (dedicated)	234	517	109	2014		
Part time (nondedicated)	54	23	23		Survey	
TOTAL	288	540	132			
Table 5. Medical Crew Composition	on.					
Caregiver by Type		Critical Care Ground		Fixed Wing	Specialty Care	
of Transport	(n	= 71)	(n = 112)	(n = 52)	(n = 74)	
Emergency Medical Technician (EM	EMT) 34%		1%	2%	7%	
EMT-Paramedic (EMT-P)		89%		77%	26%	
Respiratory Therapist (RT/RRT)		13%	7%	23%	66%	
Registered Nurse (RN)		97%		100%	93%	
Advanced Practice Provider (NP/PA)	6%	4%	6%	32%	
Physician (MD/DO)		0%	4%	0%	16%	
Table 11. Who Defines Scope of Pr	actice					
N	ational	State	State M	edical/	/ Program	
Certi	fying Body	EMS Office	Nursing	Board M	edical Director	
CCT/Flight EMT-P	3%	89%	09	6	8%	
CCT/Flight RT-RRT	11%	5%	71%		14%	
CCT/Flight RN	3%	4%	409	%	53%	
CCT/Flight MD	57%	8%	129	%	23%	





So how is critical care defined?

- Medical directors are writing their own for their agencies
- Many states have made their critical care transport standards/scope of practice/education (MI doing now)

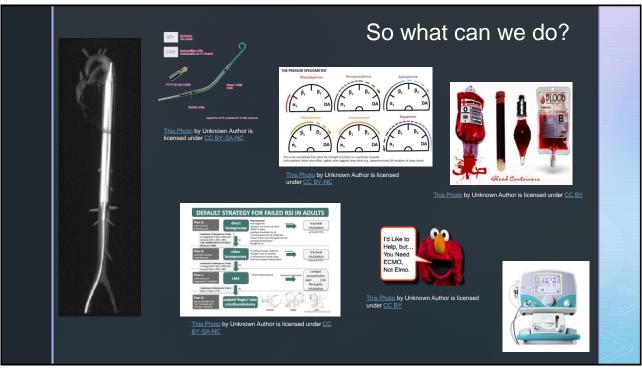
15



Commission on Accreditation for Medical Transport Systems (CAMTS)

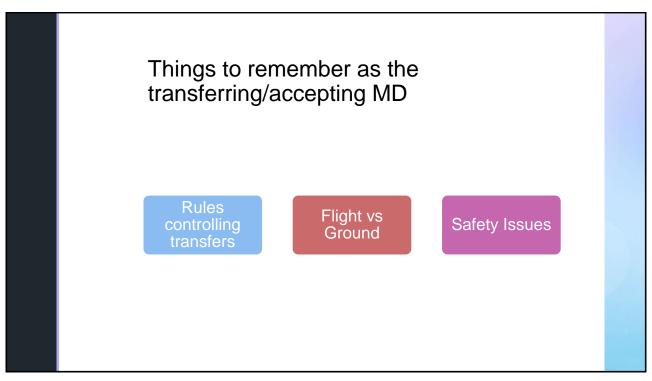
- Have accreditation levels for BLS/ALS and Emergency Critical Care transport.
- Have description of Intensive Care transport level, but DOES NOT accredit at this level yet as there is not enough "data" to do so.

18



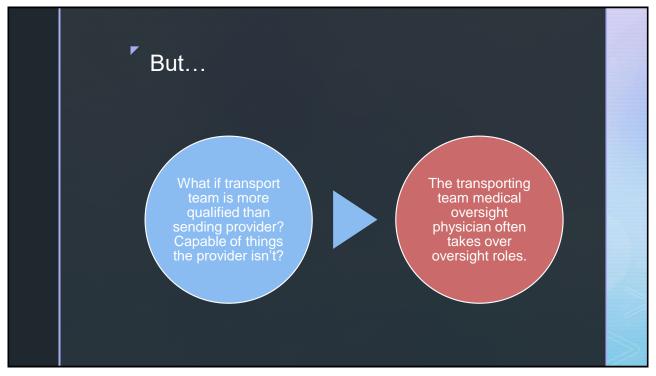


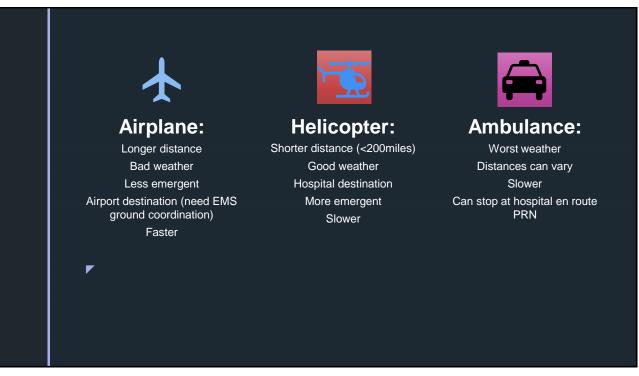




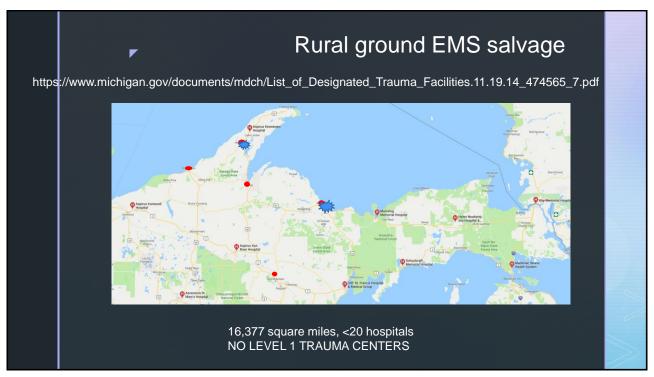






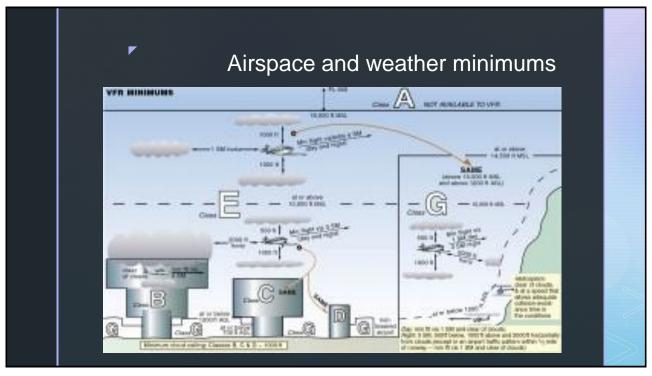














Require hospitals to prioritize ground transport, unless air transport is deemed medically necessary. Require hospitals to prioritize nonemergency patient air transportation using innetwork providers before using out-of-network services. Require air ambulance companies and hospitals to disclose network status and estimated cost of air ambulance transport prior to ordering the service for nonemergency patients. Require air ambulance providers to accept the amount covered by an emergency patient's insurance as payment in-full. Require hospitals to allow a patient's in-network air ambulance to land at their facility. Hold hospitals responsible for a patient's excess charges should they fail to comply with the above requirements.



Pilots don't know what the medical case is
3 to go, 1 to say no
NVG
IFR capabilities (<10% currently do this) but realize that IFR night flight is most dangerous
Checklists
In cockpit video monitoring
Only fly when the patient really needs it!
Appropriate maintainence
Train ground crews on service capabilities, when to call, and landing zone needs/scene management

To maximize ground critical care safety

- Protocols delineating the weather minimums
- Checklists
- Detailed QA
- Appropriate maintainence
- Train hospitals on service capabilities, when to call
- Minimize Lights and Sirens

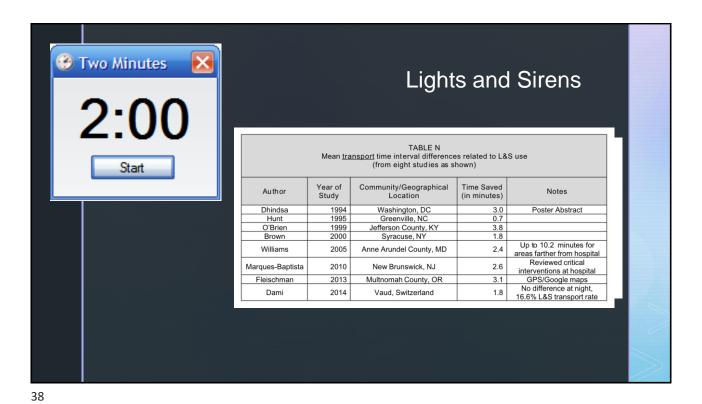
36

Lights and Sirens

Although they vary in each state, specific state laws and regulations are frequently designed around the Uniform Vehicle Code, which provides four general exceptions to motor vehicle rules for drivers of emergency vehicles. These include:

- 1) Proceeding through a red traffic signal, stop light, or stop sign
- 2) Driving the wrong way in lanes of opposing traffic or on one-way streets, disregarding directions of movement or turning in specified direction
- 3) Exceeding the posted speed limit
- 4) Parking the vehicle in locations that would otherwise not be legal

Important to realize: You DO NOT have the RIGHT OF WAY when utilizing these exceptions!



Washtenaw/Livingston MICU Transport protocols

- https://www.washtenaw.org/DocumentCenter/View/3355/12-02-MICU-Transport-Capabilities

