



2017 EMS 3.0
Transformation
SUMMIT

Hosted by NAEMT

April 24, 2017 • Arlington, Virginia
Holiday Inn Rosslyn at Key Bridge

Welcome To
EMS 3.0!

2017 EMS 3.0
Transformation
SUMMIT

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April 24, 2017 • Arlington, Virginia
Holiday Inn Rosslyn at Key Bridge

Surviving & Thriving

EMS 3.0
Transformation
SUMMIT

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Program

8:00 a.m. — REGISTRATION OPEN

Coffee service sponsored by OnStar & Stryker

10:30 a.m. — WELCOME AND OPENING REMARKS

"EMS 3.0" – Industry Alignment on the 3.0 Initiative

Matt Zavadsky, MS-HSA, EMT, Chief Strategic Integration Officer, MedStar Mobile Healthcare, Fort Worth, TX; moderator

10:50 a.m. — THE MEDICINE

Clinical Care Protocols, Medical Oversight & Integration of Health Services

Dr. Bradford H. Lee, MD, JD, MBA, Medical Director, REMSA, Reno, NV

Dr. Mark Conrad Fivaz, MBOB, MMedFamMed, Clinical Director, Priority Solutions, Inc., and Emergency Response Operations Director for PDC, Salt Lake City, UT

12:10 p.m. — THE EVIDENCE

Program Evaluation, Research & Publication, Outcome Measures

Cynthia Wides, Research Policy Analyst, University of California, San Francisco, CA

Walt Stoy, Ph.D., EMT-P, Professor and Director, Emergency Medicine Program, School of Health and Rehabilitation Sciences, University of Pittsburgh, PA

12:50 p.m. — BUFFET LUNCH

Sponsored by Medtronic



4:00 p.m. — ADJOURN



Speaker Sponsor



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EMS SURVEY TEAM
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Text to: **817-991-4487**



Shared Vision = Industry Alignment!


NAEMT
NATIONAL ASSOCIATION OF
EMT-PARAMEDICS


NASEMSO
NATIONAL ASSOCIATION OF
SPECIALIZED EMTS


NEMS MANAGEMENT ASSOCIATION


AMERICAN AMBULANCE ASSOCIATION


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NREMT
NATIONAL REGISTERED
EMT

Urgent and Emergent Care Remain Core to EMS

24/7 emergency medical dispatch (911)

Urgent cardiac, stroke, trauma, mass casualty/ disaster care

Rapid response, medical assessment and treatment

Emergency and critical care transport

But EMS Must Offer Expanded Roles

Nurse advice

Post-discharge follow up, preventive care

Chronic disease management and support

Alternative transportation or referral to community health or social services resources

EMS is Uniquely Positioned to Help

→ EMS is available in every community.

→ EMS is fully mobile.

→ EMS can address patient needs 24/7.

→ EMS is an expected, respected and welcomed source of medical assessment and care in people's homes and throughout the community.

Healthcare 3.0

CENTER FOR
HEALTHCARE
QUALITY &
PAYMENT REFORM

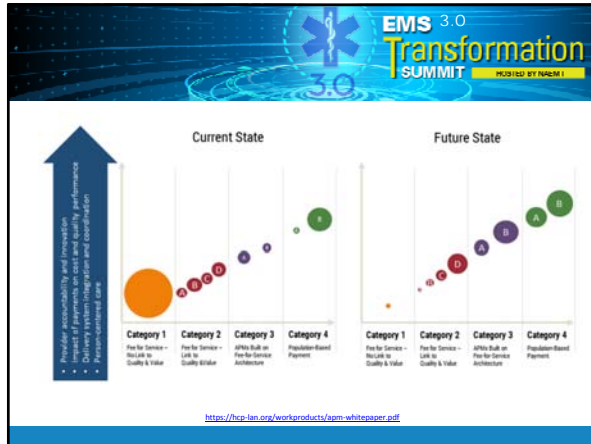
Demonstrating Value for EMS

$$\text{VALUE} = \frac{\text{QUALITY}}{\text{COST}}$$

QUALITY = Outcomes + Patient Experience
 COST = Direct Costs + Indirect Costs

Category 1	Category 2	Category 3	Category 4
 Fee for Service -- No Link to Quality & Value	 Fee for Service -- Link to Quality & Value	 APRs Built on Fee-for-Service Architecture	 Population Based Payment
A Traditional Payment for Ambulance & Operators B Pay for Reporting C Rewards for Performance D Reward and Penalties for Performance	A APRs with Special Credentialing B APRs with Specific Credentialing/Oversees Role	A Condition Specific Population Based Payment B Comprehensive Population Based Payment	

<http://hqp-lan.org/workproducts/gpm-whitepaper.pdf>



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The Revolution in EMS Care
Thanks to new technology, new life-saving techniques and new missions, ambulance crews are far from the "horizontal taxicabs" they once were
 By Laura Lancro
 Sept. 25, 2016

THE WALL STREET JOURNAL

There's a revolution taking place in emergency medical services, and for many, it could be life changing.

From the increasingly sophisticated equipment they carry and the new lifesaving techniques they use, to the changing roles they play in some communities—providing preventive care and monitoring patients at home—ambulance crews today are hardly recognizable from their origins as "horizontal taxicabs."

Coming soon: preventive-care teams
In what could amount to a sea change for many EMS workers, health-care policy makers are looking at having so-called community paramedicine teams provide preventive care—and even make regularly scheduled house calls.

In a concept some are calling "EMS 3.0," ambulance crews with advanced medical training in more communities already are treating patients in their homes, including frail or elderly patients, helping to manage chronic conditions like diabetes, and are checking on recently discharged hospital patients to ensure they are following their care instructions.

<http://www.wsj.com/articles/the-revolution-in-ems-care-1474855802>

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A healthcare expert explains why you should think twice before taking an ambulance to the hospital
 Arielle Berger and Alana Kakoyannis
 April 20, 2017

DR. ELISABETH ROSENTHAL: One of my favorite stories in the book is a woman who was in a minor bike crash. She knew she'd hurt something. Everyone said, "Oh, let's call an ambulance." And then, like a month later, she gets a bill from the ambulance company. And it was for, like \$800. And she said, "Wait! There must be a mistake here. This was the fire department ambulance."

And the ambulance company said, "Nope. We charge, and we're not in your network. And you owe us." And she could have taken a cab to the hospital, but the ambulance was there. She went along with it, and didn't think much of it.

We like to think of ambulances as doing a public service which they clearly do, but they're also charging now. They're billing, and they're often out of network.

I'm a jogger, I was running in New York, and I tripped on the pavement and landed facedown, near Columbia. A bunch of students ran up to me and said, "Oh, can we help you? Should we call an ambulance?" And I was like, "No! I am walking to the hospital."

When people call an ambulance, or think, why don't we just call an ambulance or get in an ambulance there may be financial repercussions.

<http://www.businessinsider.com/think-twice-before-taking-ambulance-hospital-elisabeth-roenthal-insurance-bills-healthcare-hospital-emergency-2017-4>

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3.0

The Medicine...

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THE MEDICINE: The EMS Transformation Summit – Attributes of EMS 3.0

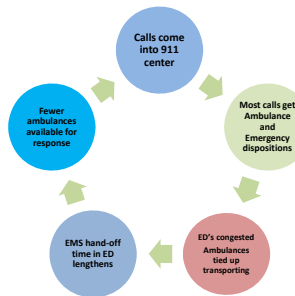
Dr. Brad Lee, MD, JD, MBA, Medical Director, REMSA, Reno, NV
 Dr. Conrad Fivaz, MEdChB M.MED(FAMMED) (AED), PDC, Salt Lake City, UT

Monday, April 24, 2017

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Supply and Demand Mismatch

- How do we break the chain of events?



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Increase in 911 call demand

- An estimated 240 million calls are made to 911 in the U.S. annually ¹
- SPRINGFIELD, Ohio — Emergency medical service runs by the Springfield Fire/Rescue Division have increased nearly 40 percent in a decade ²
- Boston EMS said it has seen a 26 percent rise in calls over the past decade (2005 to 2014) ³
- In 2015, the Philadelphia Fire Department's emergency medical service responded to about 270,000 911 calls. That volume represented an increase of almost 25,000 from the prior year and more than 55,000 from 2007 ⁴

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Medically Unnecessary Transports Published Studies

- Cho et al. literature review (2007) cited that medically unnecessary transports comprised at least 31% of all emergency ambulance transports and as high as 92%.
- In their own study (Cho et al., 2007), the authors conducted a random retrospective chart review of one year's data of patients at a Level 1 Regional Trauma Center in the Bronx, NY (St. Barnabas).
- Even using a very "conservative operational definition of medically necessary transports," 15% of those patients transported by ambulance to this hospital did not require EMS transportation to an Emergency Department.⁵



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Medically Unnecessary Transports Published Studies

- a study by Weaver, Moore, Patterson, and Yealy found that from 1997 to 2007, there was an increase from 13% to 17% in the number of medically unnecessary ambulance transports nationally, as part of all ambulance transports as a whole (2011).⁶
- English study from 1998 used a panel of emergency room physicians who voted whether or not transports were medically necessary and found that 16%, or approximately 75,000, of transports were medically unnecessary by unanimous vote (Donovan, 2009).⁷



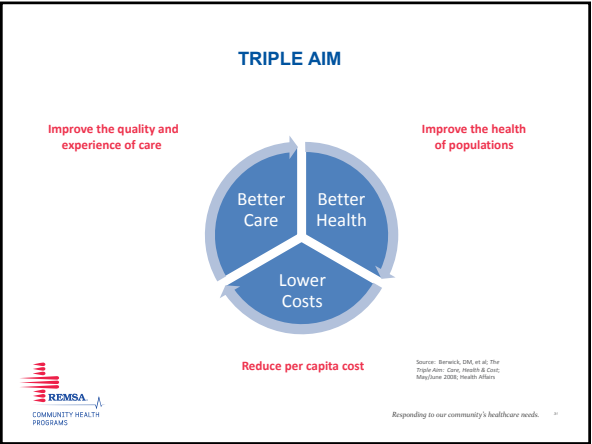
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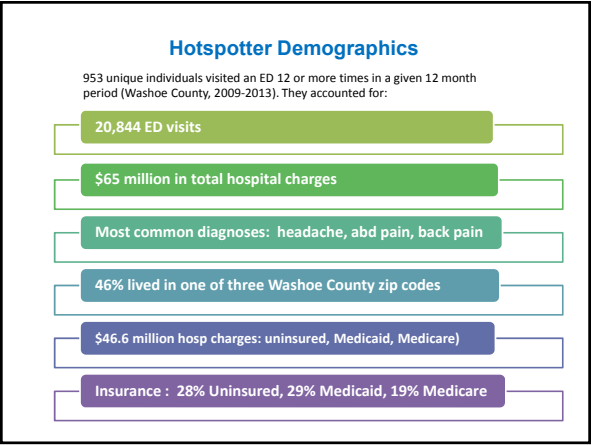
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Regional Emergency Medical Services Authority REMSA



Private non-profit serving Northern Nevada and Northern California
celebrating 35 years of service





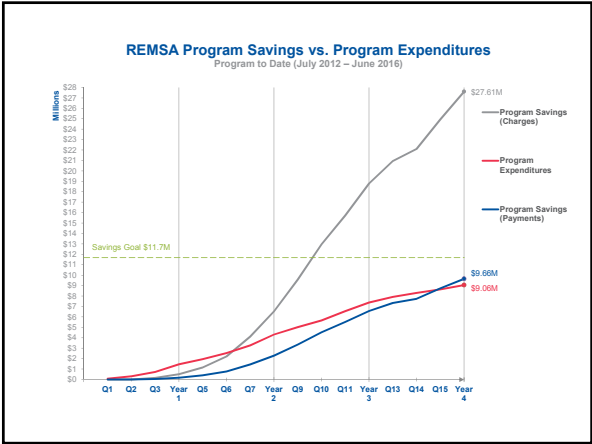


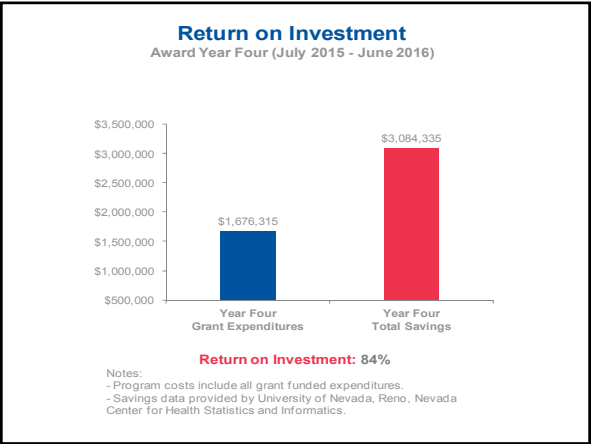


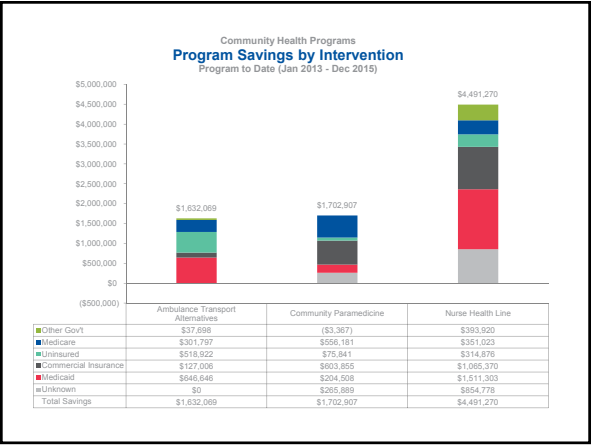
The Patient/Caller Experience

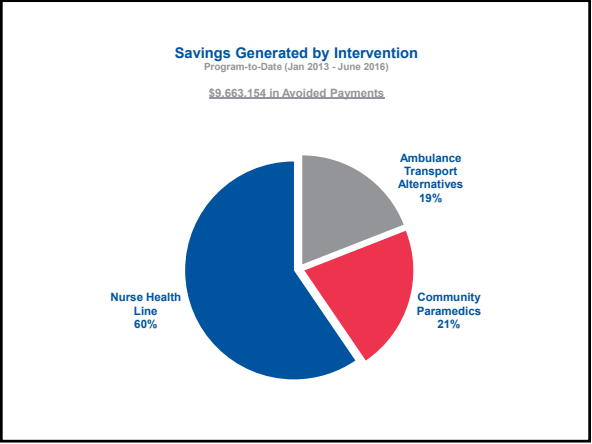
High levels of satisfaction with ECNS

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**Community Health Program
Program Results**
Program to Date (Four Years): 7/1/12 – 6/30/16

- 1.Improved access to quality care
 - o 63,866 calls to Nurse Health Line (9/13 – 6/16)
 - o 1,524 enrolled Community Paramedic patients (6/13 – 6/16)
 - o 1,438 Transports to Alternative Destinations (1/13 – 6/16)
- 2.Improved patient quality of life & satisfaction
- 3.Total est. program savings: \$9.66 million
 - o 6,202 ED Visits Avoided
 - o 1,024 Ambulance Transports Avoided
 - o 104 Hospital Readmissions Avoided



Note: Estimated program savings calculated based upon average payments.

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Community Paramedicine

Community Paramedicine

Specially-trained **Community Health Paramedics** provide in-home services to improve the transition from hospital to home, including:

- oMedical care plan adherence
- oMedication reconciliation
- oPoint of care lab tests
- oPersonal health literacy
- oProtocols: CHF, COPD, MI, Cardiac Surgery



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Community Paramedicine Programs

- Post-hospital Discharge Patient Follow-up
 - Assist patients avoid complications after discharge from hospital
- Episodic Evaluation Visit
 - Provide primary care physicians with a patient care service when an emergency department visit may not be optimal
- Hotspotter Intervention
 - Help frequent emergency dept users to access more appropriate services for unmet primary care, mental health or social needs



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Community Paramedicine Medical Oversight

- Community paramedics function under medical director-approved protocols
 - Existing ground ambulance protocols, PLUS
 - New community paramedic protocols
 - Under the direction of REMSA Medical Director with permission of patient's primary care physician
- Quality Improvement
 - REMSA Medical Director oversees CQI program and audits



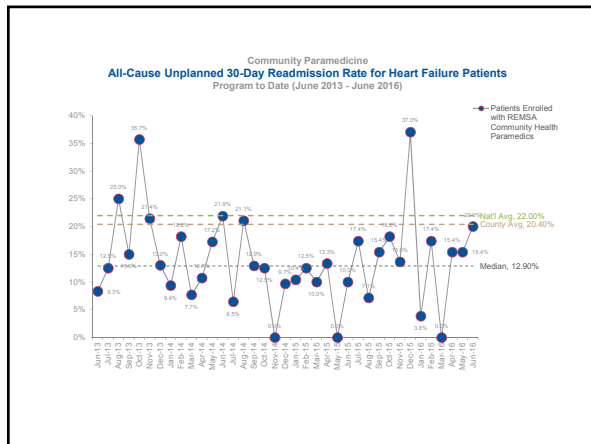
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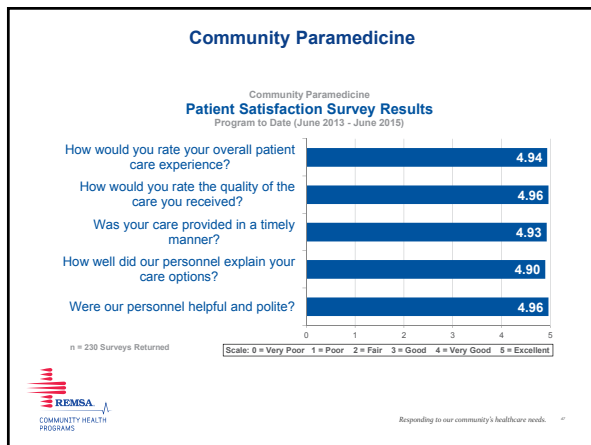
Community Paramedicine Protocols & Training

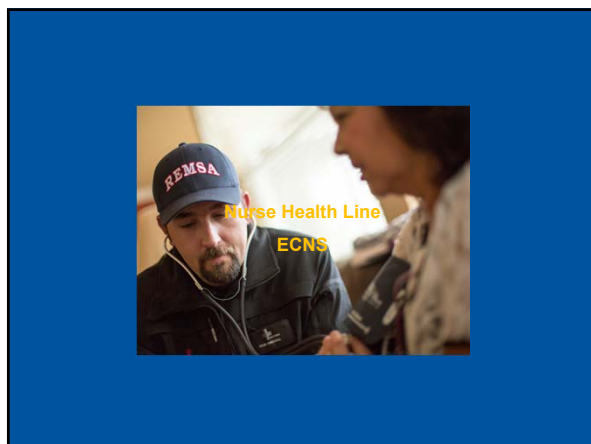
- Community Paramedicine Protocol Manual
 - Current: Hotspotter, Congestive Heart Failure, Myocardial Infarction, Evaluate and Refer
 - Future: Diabetes, Pneumonia, Dehydration, Nausea, ER discharge
- Training
 - Initial group (500 hours), CP competency test, refinement, second group (150 hours), incl didactic and clinical rotation
 - Accredited by University of Nevada, Reno



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Key considerations as laid out by the NAEMT



- Best practice
- Science behind Nurse Triage
- Clinical Governance and safety
- Where
- How

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911 call → ECNS low acuity criteria met (selected Omega and Alpha calls)



- The ECN is an RN with acute care and triage experience, BMD-Certified and ECNS-Certified. The ECN is housed within the Emergency Communication Center. Regular QA and working under medical oversight

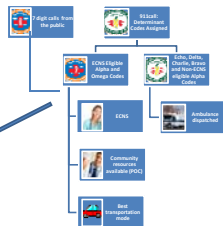
The Emergency Communication Nurse (ECN)

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How does ECNS work?

ECN determines the patient's Recommended Care Level (RCL):

- Emergency response (911) →
- Emergency care as soon as possible
- Seek medical care within 1-4 hours
- Consult medical provider to review symptoms
- Consult regional poison control center
- See medical provider within 12 hours
- See medical provider within 1-3 days
- Routine appointment with provider
- Routine appointment with dentist
- Self-care/Home care instructions
- Others



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ECNS recommends the best health care resources to meet the patient's needs

What is the best way for this patient to get to the destination?

Who will best meet this patient's needs?

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Clinical governance

As with other disciplines under the IAED, there is a formal process in place for evaluating Proposals for Change and recommendations for improvements to the ECNS. This occurs through evidence-based research and the expertise of the ECNS Council of Standards.

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Codes determined to be safe for ECNS are based on research

- IAED Council of Standards has approved 98 OMEGA-level and 53 ALPHA-level eligible codes.
- Each local EMS Center Medical Director will select the codes from the approved list which will become ECNS eligible for their community.
- In a study by Scott, Clawson, Fivaz, et al. 16,763 cases were reviewed, retrospectively.
 - 89% of these cases did not have even one vital sign indicator of an unstable patient.
 - Only 1.1% were transported lights and sirens.
 - With the exception of the ALPHA-level seizure cases, the ALPHA-level patients are suitable for secondary triage in a best practices setting.
 - The secondary nurse triage process should identify the few at-risk patients that exist in the low-acuity calls.

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Not all secondary medical telephone triage programs are equal

- IAED OFFICIAL WHITE PAPER[®]: SMITT..... "is safe and effective when..."

- ✓ Clinically sound medical protocols
- ✓ Trained Registered Nurse
- ✓ Housed within an ECC
- ✓ Medical oversight

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Stratification Definition:

Consistent or particular way of arranging things according to layers or categories

- ECNS is highly stratified.

- Multiple layers of clinical considerations
- 212 protocols
- Multiple recommended care levels
- Sub-tiers of care offered

There is confidence in the ability to determine appropriate alternative dispositions using this system.

Stratification

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Clinically Sound Medical Protocols

Clinical Decision Support Software (CDSS)

- Clinical Decision Support Software system used in ECNS was developed and enhanced over the last 17 years
- First live implementation 2001 South Africa
- Base protocol set: in excess of 80 million triage calls completed internationally
- The protocol set is reviewed and updated continuously based on research and expertise of members of the ECNS Council of Standards

212 Protocols in the set

- Top 5 most frequently used protocols:
 - Falls
 - Abdominal pain
 - Back pain
 - Vomiting
 - Leg pain

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ECNS Agencies

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ECNS in the USA

- MedStar in Fort Worth, Texas
 - 911 access only
- Las Vegas Fire, Nevada*
 - 911 access only in the initial phase
- REMSA in Reno, Nevada
 - 911 access and direct dial (7-digit) Nurse Health Line
- Northwell Health Services in Long Island, New York
 - AIM

ECNS International

- Canada Nova Scotia*
- United Kingdom ambulance trusts EOEAS, SWAST
- South Africa (Johannesburg Netcare 911)
- Botswana (Gaborone)
- Australia Queensland Health (Large Nurse Triage call center)
- Austria (3 states)
- Ireland HSE*

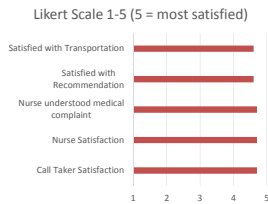
*Implementation Pending



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- MedStar in Fort Worth, TX survey results:
 - 90% of callers indicated that it helped talking with a nurse.
 - 86% stated that their condition got better.
 - 77% stated they do not believe the call should have been handled any differently.
 - Satisfaction scores were 4.6 - 4.7 on a 1-5 point scale for satisfaction with the nurse, care provider recommendation, and transportation recommended.

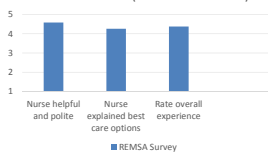


High satisfaction in Texas

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Remsa customers rate ECNS high in Reno July 2014 - June 2015 **11

REMSA Customer Satisfaction on 1-5 Likert Scale (5 = most satisfied)



REMSA Percentile Satisfied Customers



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High Levels of Customer Satisfaction and Efficacy

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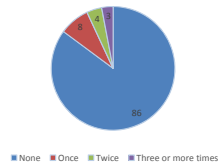
National findings in the UK:

- 84% of all respondents said they were treated with kindness and understanding "all of the time."
- 11% felt they were "some of the time."
- 5% said they were not treated with kindness and understanding overall.

Similar results were produced for treatment with dignity and respect in this same survey.

*12

7-Day Re-contact Rate with EMS



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Partners and Potential Funding for ECNS

- Grants
- Hospitals
- Physician groups
- Insurance companies
- Other partners

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MedStar Data

Expenditure Savings Analysis (1)		9-1-1 Nurse Triage Program	
Based on Medicare Rates			
Analysis Dates: June 1, 2012 - Feb. 28, 2014			
Number of Calls Referred:		1382	
% of Calls Alternatively Disposed:		41.0%	
Category	9-1-1 Transports to ED		
	Base	Avoided	Savings
Ambulance Charge	\$1,668	\$66	\$944,088
Ambulance Payment (2)	\$427	\$66	\$241,682
ED Charges	\$904	\$66	\$511,664
ED Payment (3)	\$774	\$66	\$438,084
ED Bed Hours (4)	6	\$66	3,396
Total Charge Avoidance			\$1,455,752
Total Payment Avoidance			\$679,764
Per Patient Enrolled			ECNS
Charge Avoidance			\$2,572
Payment Avoidance			\$1,201

* Presented by MedStar at Navigator Conference 2014 *11

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Northwell Health: PROVIDING ACUTE CARE AT HOME

- This observational study describes a **Community Paramedicine (CP) model for treatment of acute medical conditions within an Advanced Illness Management (AIM) program**, and compares its effect on emergency department (ED) use and subsequent hospitalization with that of traditional emergency medical services (EMS).
- The CP model was implemented between January 1, 2014, and April 30, 2015 in a suburban-urban AIM program.
- Participants included **1,602** individuals enrolled in the AIM program with **high rates of dementia, decubitus ulcers, diabetes mellitus, congestive heart failure, and chronic obstructive pulmonary disease**.

Preliminary Results:

Emergency calls were routed to a nursing clinical call center where they are triaged using emergency communication nurse system de-escalation.

The program has had a **zero clinical defect rate** (that is, zero reported adverse clinical errors or poor outcomes), a very low ED relapse rate post-CP visit, and **estimated financial savings of \$7,267,081** in avoided payments at an extremely low cost point, with the potential to provide triple-digit returns on investment in a risk-based reimbursement environment ¹³

Nurse Health Line 858-1000

Registered Nurses provide 24/7 medical guidance & triage patients to appropriate health care or community service:

- Protocol-driven Assessment
 - Emergency Communication Nurse System
- Access
 - Non-emergency number
 - Omega Protocol via 9-1-1
- Recommended Level of Care & Recommended Location of Care
 - On-line Directory of Services



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Nurse Health Line Protocols

➤ Software by Priority Solutions

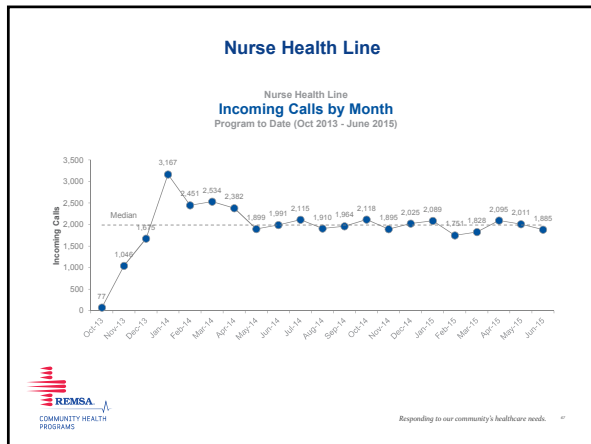
- LowCode / Emergency Communication Nurse System (ECNS)

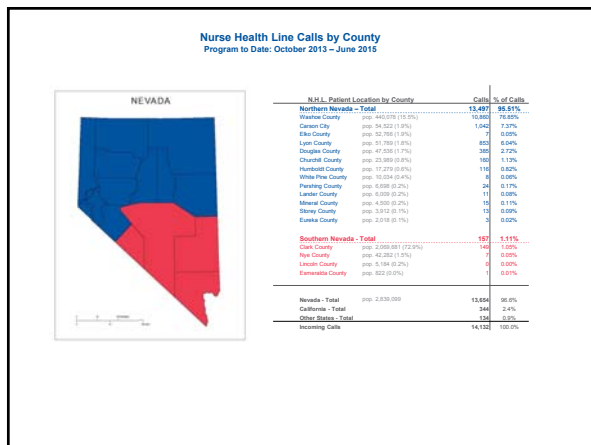
➤ Training

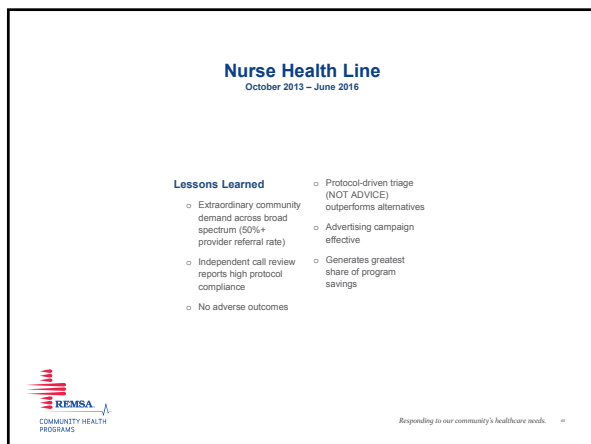
- Emergency Medical Dispatch (EMD) – 3 days
- Emergency Care Nurse System (ECNS) – 4 days
- Accredited by International Academy of Emergency Dispatch
 - EMD Accredited Center of Excellence (13 years)
 - ECNS Accredited Center of Excellence (2015)



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"Why won't the 911 system listen to its own nurses?"

"Why won't the 911 system listen to its own nurses?"

"I fell and twisted my ankle. I couldn't drive with the pain and swelling, and I didn't know what to do. I called 911.

After talking to two people, they put me through to a nurse who talked me through my fall and suggested taking a taxi to an urgent care. She was looking up nearby clinics with X-ray when the EMTs started arriving.

I told the EMTs that the phone nurse was helping me and I didn't need an ambulance. They didn't listen, weren't interested in hearing anything the nurse had to say, ordered me to hang up and instructed me to go to a hospital via ambulance.

Well, I did as I was told and dutifully got into the ambulance where some different EMTs took over. At the ER, the doctor diagnosed a sprained ankle. I asked him why I had to go to the ER, he replied that taking a cab to an urgent care would have been just fine.

To the 911 EMTs: Thank you [for] your responses, but please listen to your dispatchers, nurses, and patients. The ER is crowded enough without my ankle injuries."

- Alice Peterson

Reno



Reno Gazette-Journal
Letter to the Editor - 09/12/2015

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ECNS Quality Improvement Program

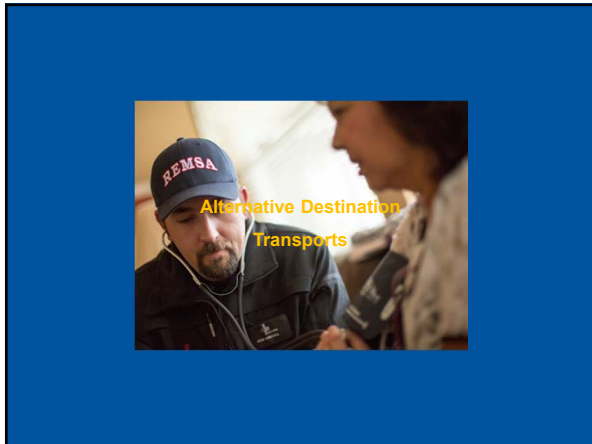
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Quality Assurance and Improvement


- Key component
- QA/QI Reports in AQUA
- Additional Two-Day training course for ECN-Q auditors
- Accreditation for ECNS


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Ambulance Transport Alternatives

- Advanced assessment by field personnel of 9-1-1 patients facilitating **Alternative Pathways of Care** including transport to:
 - Urgent Care Centers
 - Clinics/Medical Groups
 - Community Triage Center
 - Mental Health Hospitals






REMSA
COMMUNITY HEALTH PROGRAMS

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Ambulance Transport Alternatives Protocols

- Protocol-driven advanced assessment
 - To determine eligibility for alternative destination
- Protocols
 - Current ground ambulance protocols, PLUS
 - Additional protocols: Intoxicated, psychiatric, low acuity
- Documentation via Ambulance EPCR
 - Advanced assessment completed on every patient
 - Flex-field added to ground ambulance EPCR



REMSA
COMMUNITY HEALTH PROGRAMS

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Ambulance Transport Alternatives Training

- Training
 - 4 hours of field in-service for all ground ambulance personnel
 - Determine and document eligibility for alternative destination
- Quality Improvement
 - 100% review of repatriation transports by medical director



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Ambulance Transport Alternatives January 2015 – June 2016

Preliminary Results

- 1,509 alt transports
- 1,438 ED visits avoided
- 131 ambulance transports avoided
- 4.7% repatriation rate

Estimated Savings

- \$1,841,689 (avg. payments)



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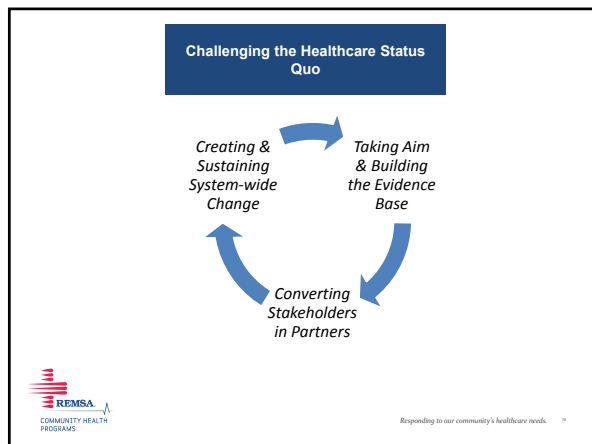
Ambulance Transport Alternatives January 2013 – June 2015

Lessons Learned

- Safe, reliable way for patients to receive right care at lower cost
- Factors: facility open, patient consent, facility consent to accept patient, facility accept insurance
- No adverse outcomes
- Volumes lower than projected
- EMS role in healthcare safety net
- Tool to intercept hotspots



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Targeted Utilization by Zip Code

Patient Zip Code	Medicaid ED Visits		ED Visits		Ambulance Trans		Nurse Health Line		All Destination		
	Baseline	Baseline	Baseline	Baseline	Baseline	Baseline	Intervention	Intervention	Intervention	Intervention	
	ED (n) Medicaid	Rate/1000 Persons/ Year	ED (n)	Rate/1000 Persons/ Year	Amb. Trans (n)	Rate/1000 Persons/ Year	NHL (n)	Rate/1000 Persons/ Year	ATA (n)	Rate/1000 Persons/ Year	
99001	4252	798	197.88	3793	892	3712	873	300	70.6	124	29.2
99010	28574	4546	177.76	13205	516.4	3106	121	879	34.4	66	2.8
99020	43566	6419	147.34	19930	455.2	4291	90	1424	32.9	131	3
99030	1685	4490	264.49	14128	390.4	3284	91	1190	32.9	27	8.7
99050	29188	2509	126.76	7678	385.3	1374	68	880	28.7	3	8.1
Average Rate for Washoe County is 325 visits/1000 persons/ year											
89006	38379	3128	81.46	11600	299.7	2288	89	969	25.2	13	8.3
89003	27891	1991	71.39	8263	296.3	2182	78	672	24.1	77	2.8
89434	28416	1366	63.75	6880	283.1	1964	81	549	22.6	15	8.8

New Model of EMS Care and Payment Principles

Balanced triage	Prudent layperson definition of emergency
Patient-centered	Patient choice and consent
Integrated	Emergency care, primary care, mental health, social needs
Stakeholder-engaged	Tailored strategies for clinical partners
Payor-aligned	Referral to in-network care
New health information technologies	Exchange of patient records and data
Evidence-based	Use of new data analytics across all domains



References

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- *3 <https://www.bostonglobe.com/metro/2015/11/29/surge-medical-calls-and-one-quiet-knows-why/HYm0RtasH0EAs4wDw00/story.html>
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Priority Solutions,
Inc.



Responding to our community's healthcare needs. 49

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- *12 National findings from the 2013/2014 Ambulance survey of Hear and Treat callers in UK. Summary document.
- *13 Alrashkin K., Washko J., Zhang J., Poku A., Kim H., Smith K. Providing Acute Care at Home: Community Paramedics Enhance an Advanced Illness Management Program—Preliminary Data.

83

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The Information...

EMS 3.0 Data Analytics

San Diego Resource Access Program (RAP)

- Originally a frequent user management program
- Primary functions:
 - Surveillance
 - Crisis intervention
 - Coordination
- Requests
 - Missing persons
 - Drug patterns
 - Trafficking
 - Others

Frequent Homeless Users

Return top: 10 ☒ Include Records on Watchlist





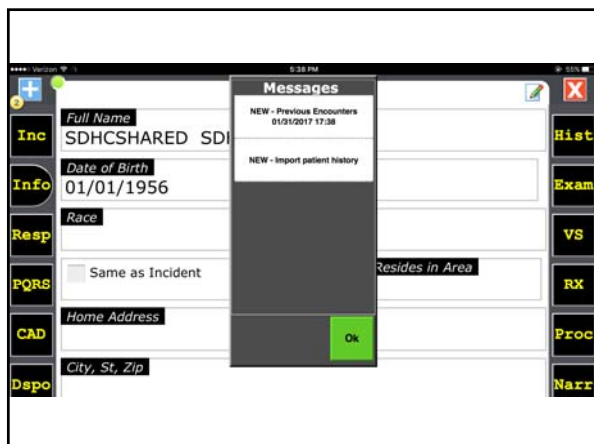
Our Mission

"We address the needs of vulnerable EMS patients and preserve safety net resources."

- High utilizers
- Vulnerable patients
- Provider safety and wellness

Data In

- ePCR
- Health Information Exchange
 - Medications
 - Medical History
 - Past encounters at hospitals and clinics
- Community Information Exchange (RAP)
 - Social services usage
 - Homeless Management Information System
- Reverse 211 (RAP)
 - Health Navigator communication



Inc	SDHCSHARED SDHCPATIENT		Hist
Info	Date of Birth 01/01/1956	SSN #	Exam
Resp	Race		VS
PQRS	Same as Incident		RX
CAD	Home Address		Proc
Depo	City, St, Zip		Narr
MdDv	County, Country		Sig

PATIENT HISTORY
 Retrieving patient history from San Diego Health Connect. This may take a few minutes.
Ok

Data Out

- Community Information Exchange
 - EMS encounters
- 211 Referrals
 - Field referrals for social issues like nutrition, in-home care, etc.
- RAP to Field transmissions
 - Safety information
 - RAP care plans

Inc	Patient's Home Address	RAP16-0000051 6/23/2016 15:23	IP Code	EMSA
Info	Current C			Intk
Hx	Patient's			Scrn
S/S				Meds
VS	Email			SRx
MRx	City of b			Act
Nar				Sig

RAP16-0000051
PRE-HOSPITAL CARE INSTRUCTIONS:
 Please page RAP if you encounter this patient in an intoxicated state.
COMMUNITY CASE PLAN:
 Early AB109 release with no assigned parole officer. Currently case managed by SIP/MHS. When allowed to binge drink, patient places self in life-threatening situations. Contact SIP or RAP if you encounter this individual in an intoxicated state. For privacy concerns, all authorizations to release information have been signed and stored at MHS Midcoast. Please contact them for information on this, or to obtain medical information through MHS's medical affiliate.
Ok



Insight-driven patient care

- Protocols are built for the masses
- Patients can be complex
- 360 degree view
- Case Example:
 - 30 y/o male
 - 7 calls this year:
 1. Addictive
 2. Anxiety
 3. Terrorist threats
 4. Assault
 5. Jaw Pain
 6. OPR – Fentanyl OD
 7. Prescription refill
- The many faces of healthcare
 - Housing, nutrition, crime

Thesis Statement

Integrated health needs data management methods, processes, and systems designed to address an individual's complex needs.

Do our systems fit the purpose?

Integrated health requires integrated insight

Sector	Term
Law Enforcement	Intelligence
Business	Business Intelligence
Market	Market Intelligence
Healthcare	???

"...we waste energy in angrily accusing people of intellectual dishonesty or abuse of words, when their only sin is that they use words in ways unlike our own, as they can hardly help doing especially if their background has been widely different from ours." - Hayakawa and Hayakawa

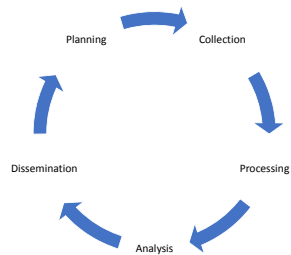
Law Enforcement
Intelligence

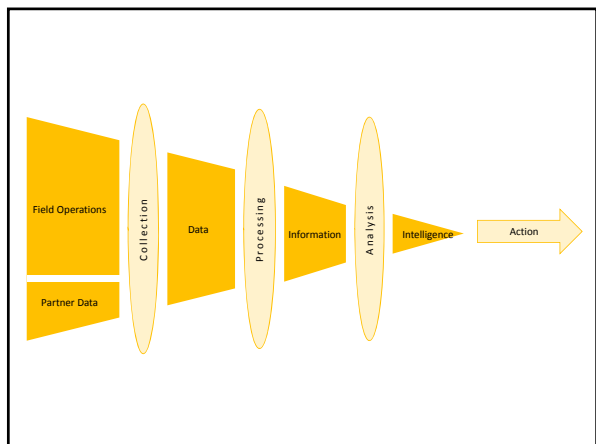
- The full picture is held by a broad range of individuals (and disciplines)
- "...end up responding to the immediate crisis and not implementing preventative and longer-term problem solving approaches." (1)

Law Enforcement
Intelligence

"In an integrated intelligence approach, the expectation is that each and every member of staff understands what intelligence is, their responsibilities in collecting it, and how it can benefit them. An integrated intelligence approach assumes that the agency will be proactive in gathering intelligence, not merely relying on information that comes to them..."

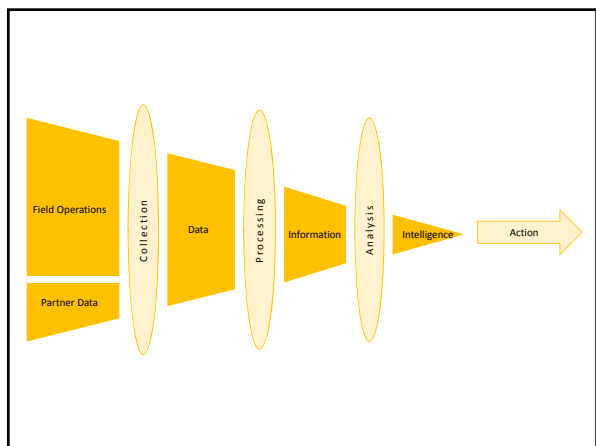
Intelligence Cycle

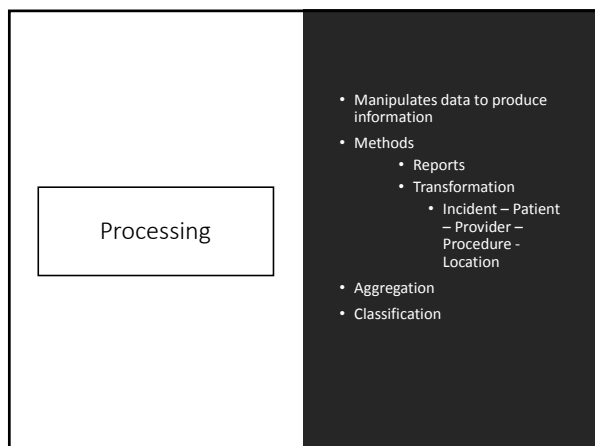


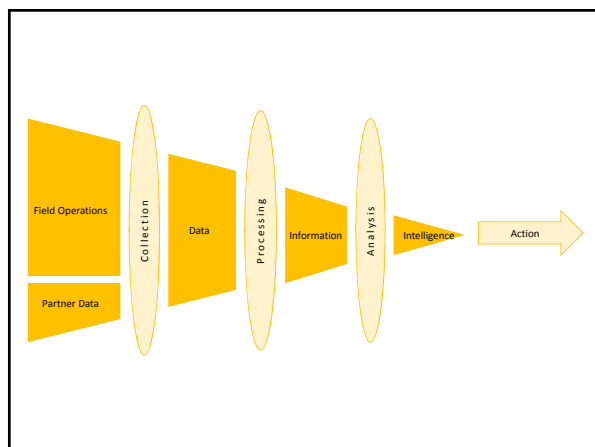


Data Collection

- Data storage
- Sources
 - EMS ePCR (NEMSIS)
 - Incident details
 - Referral notes
 - Partner data
 - HIE
 - CIE
 - Human insight









Delete
Insert
Group
Ungroup

☐

☐
Psychiatric / Behavioral
Greater Than
4

☐
OR
Suicide/Self Mutilation
Greater Than
0

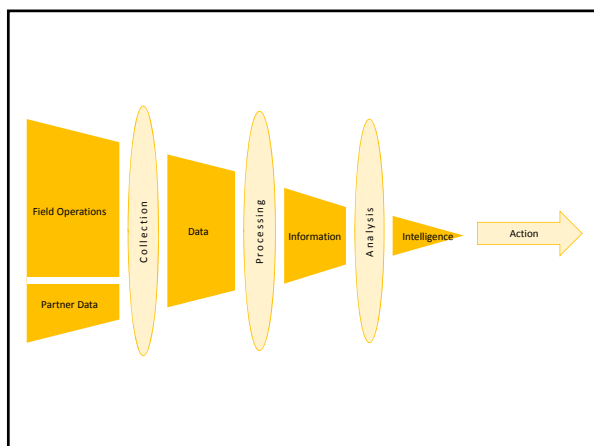
☐
AND
Any Epcr
Greater Than
5

Add Clause

# Of Incidents	# Of Related Incidents	In Hospital?	# Of Psych/Mental	# Of PD A1	PD A1 Same Count	PD A1 PERT A1	Estimated Cost
100	100	Y	10	10	0	1	\$299,222.88
107	114	Y	10	40	0	1	\$100,750.23
109	73	Y	12	52	0	0	\$100,046.25
111	72	Y	14	17	0	0	\$111,567.47
118	70	Y	7	20	0	0	\$45,604.62
123	68	Y	27	0	0	0	\$03,018.88
126	105	Y	7	3	0	0	\$130,555.98
173	162	Y	45	1	4	0	\$133,667.26
178	102	Y	4	34	0	0	\$136,411.74
180	105	Y	17	0	0	0	\$103,443.98
173	105	Y	27	0	0	0	\$65,110.04
180	105	Y	5	20	0	0	\$64,026.24
180	104	Y	45	1	0	0	\$65,500.39
186	133	Y	8	40	0	0	\$88,767.75
182	111	Y	11	1	0	0	\$73,964.76
189	111	Y	36	0	0	0	\$65,457.20
173	149	Y	3	0	1	2	\$29,379.56
147	145	Y	20	27	0	0	\$67,722.37
189	146	Y	7	10	0	0	\$61,774.22
152	145	Y	10	36	0	0	\$61,451.41
184	145	Y	12	124	0	0	\$77,541.90

View	Missing Person	This is a manually maintained list of missing persons. If found, coordinate with law enforcement and remove from list.	3	Alerts Delete Send Message
View	Pain Management Referral	Waiting list for pain management program.	11	Alerts Delete Send Message
View	Pain Medication	Waiting list for anxiety management assistance.	10	Alerts Delete Send Message

Insight into Action



Dissemination

Ethics

- Privacy
- Need-to-know vs stalking
- Bias
- Data Equity
 - Safety Threat redefined
 - Verbal aggression
 - Aggression toward property
 - Aggression toward people
 - Drug seeking
 - Others



- Help our patients achieve their best possible health
- It will require innovation to help us
 - Grasp their complex stories
 - Collaborate with other systems of care
 - Find solutions for our patients

Our quest as integrated providers

References

- ajensen@sandiego.gov
- Photos used with permission from The San Diego Union-Tribune. Copyright 2015 The San Diego Union-Tribune, LLC. All rights reserved."
- Citation and Recommended Text:
 - John Buckley. *Managing Intelligence: A Guide for Law Enforcement Professionals*. Boca Raton, FL: CRC Press, 2014. Print



Data Integrations Into Healthcare

Paul Trusty, MS

How Do We Integrate

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- Goals
 - Establish bi-directional data exchange
 - Improve the accuracy of data
 - Decrease redundancies and improve efficiency
 - Partnership for patient care
- Challenges
 - Perceived to have low return / value
 - One-to-many or many-to-many relationships
 - Integration solution variety
 - Cybersecurity



Value


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SUMMIT

Hospital	EMS
<ul style="list-style-type: none"> Direct integration to registries Pre-admit – decrease door-treatment times if registration is a barrier Healthcare Information and Management Systems Society (HIMSS) stage 7 certification 	<ul style="list-style-type: none"> Patient lookup Outcome data Improved demographic info

Getting Connected

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- What we want



Real World Complexity

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Integration Solutions

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- HIE
- Integration engine
- Direct integration
- NEMESIS and HL7
 - Clinical Data Architecture (CDA)
 - Continuity of Care Document (CCD)
 - Admit, Discharge, and Transfer message (ADT)
- Phased approach

Integration Analysis

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- Establish the integration goals
- Assess information security
 - Internal and external
- Establish the use case or model
- Define the dataset
- Define and understand the dataflow
- Design system for integration
- Implement, test, improve

Cybersecurity in EMS vs Other Healthcare

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- EMS trusts partners
- Hospitals and payors verify the trust



Cybersecurity and Integration

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- Reactive agencies pay 4.1 times more than proactive agencies for an incident
- Compliance is not enough
 - Prepare for partner's due diligence process
 - Create a cybersecurity due diligence process
 - Cybersecurity is basically a quality improvement process

What's at Risk?

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- Medical identity theft
 - Mother in New York vs CPS
 - Adverse outcomes from inaccurate meds, history, and allergies
 - On average costs patients \$13,500
- Identity theft
- Money



Third Party Risk

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- 63% of breaches in 2016 attributed to third party according to Soha Systems survey
- Anatomy of a common breach
 - Compromise a weak link
 - Use the weak link to gain access
 - Search for the goldmine
 - Extract the gold

HHS Breach Data

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Primary Cause of Breach

	2009	2010	2011	2012	2013	2014	2015	2016
Hacking/IT Incident		568358	297269	900684	218933	1786630	111812172	13426813
Improper Disposal		34587	63948	21529	526538	93612	82421	125730
Loss	3800	924909	6019578	89141	133182	270379	45788	557952
Other	83610	158593	13981	503900	296287	428413		
Theft	47363	3691460	4098209	89839	3368230	6940878	748806	904451
Unauthorized Access/Disclosure		130106	118444	338767	336646	2982325	570519	1641006
Unknown			1916443		915	953		

Summary

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- Integrations provide enhancements and improvements
- Hurdles can include perceived value, cybersecurity, number of integration points, complexity
- Integration solutions help resolve challenges
- EMS will need to step up cybersecurity to match partner efforts

Questions?

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The Evidence...



University of Pittsburgh



SCHOOL OF HEALTH AND REHABILITATION SCIENCES






Center for Emergency Medicine
of Western Pennsylvania, Inc.

The Evidence – Program Evaluation,
Research & Publication, Outcome
Measures

Dr. Walt Alan Stoy
Professor – Emergency Medicine
University of Pittsburgh
Director of the Office of Education
Center for Emergency Medicine

The EMS Transformation Summit – Attributes of EMS 3.0
Monday, April 24, 2017









The Evidence


"Do you see, then, that the important prediction is not the automobile, but the parking problem; not radio, but the soap-opera; not the income tax but the expense account; not the Bomb but the nuclear stalemate? Not the action, in short, but the reaction?"

Isaac Asimov







The Phoenician Tablets





Apple

1050BC



Android






The Rosetta Stone

Found in 1799. Thought to be written in 196 BC.


The key to deciphering.



Journals









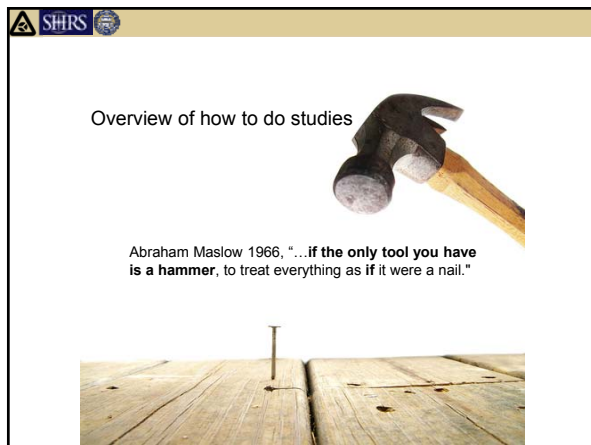
1797 - 1824

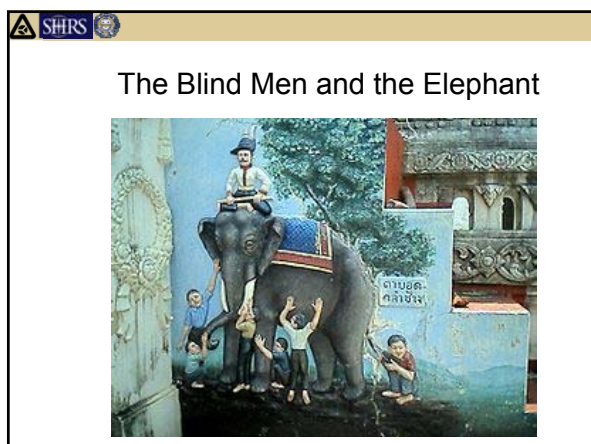












SHIRS

An Information-Driven Future

Renewed Emphasis and Clarity

Information System Development and Improvement

An Information Culture

Information System Development and Improvement	An Information Culture
<ul style="list-style-type: none"> • Emphasize the value and importance of information • Recognize the role of information at all levels • Emphasize the widespread application of information within EMS agencies and across all components of the larger EMS system • Define the role and purposes of national and statewide data collection efforts 	<ul style="list-style-type: none"> • Industry-wide prioritization of information • Strong motivation, resources and demonstrated commitment • Leaders who champion the use of information • A data and information-rich workforce • A continuous feedback loop

SHIRS

Do we share the same problem

I expect we do

SHIRS

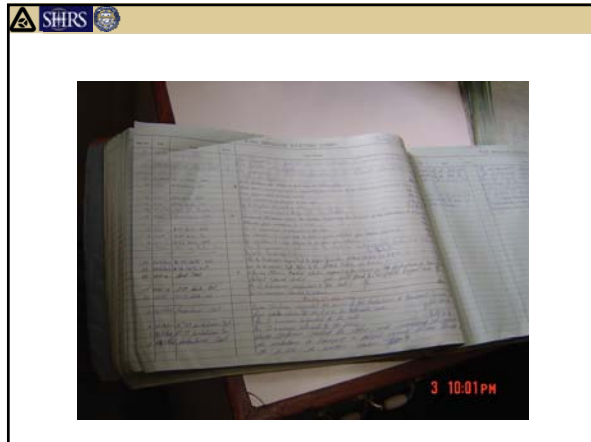
Where We've Been: The History and Background of Data in EMS

Chief among the earliest concerns was responding to highway trauma

Followed by:


- early intervention in cardiac arrest
- “Golden Hour,”
- 8-minute response time
- military anti-shock trousers

All were based on limited clinical data and research



EMS Education

"The absence of a national EMS database has been a significant impediment to the structuring of a coherent national EMS education system,"



Mears, Ornato, and Dawson wrote in Prehospital Emergency Care.

Epiphany in Pittsburgh, Pa

For years we said there was a problem with the NRP test (paramedic). Many blaming the format of testing.

epiphany 18 programs - 24% - 6 students or fewer; 70% & 82%

The greater discovery was the issues concerning the EMT level instruction. Resulting in the need to assist more so in that level of programming.



83 EMT centers 51 doing programs - 65% 76%

If we are casual in what we do, there will be casualties ...

Patient Outcomes

EMS leaders argued that data could help providers improve patient outcomes by measuring the impact of EMS intervention on "something other than death."

1991 American Heart Association report *Recommended Guidelines for Uniform Reporting of Data from Out-of-Hospital Cardiac Arrest: The Utstein Style*






EMS Research

Academics agreed with clinicians and government officials that data are essential to EMS improvement




"EMS professionals of all levels should hold themselves to higher standards of requiring evidence before implementing new procedures, devices, or drugs."
"There should be standardized data collection methods at local, regional, State, and national levels." 2001

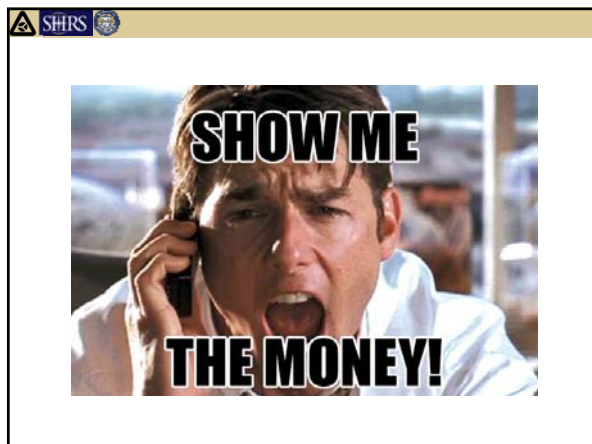
"Having access to a national EMS database could facilitate research efforts considerably, providing a large sample of standardized data from which to draw. Such a database would be invaluable in the generation of research hypotheses, evaluation of cost-effectiveness, and standardization of data used by researchers." 2002

Reimbursement

As the concept of pay-for-performance took shape in healthcare, EMS leaders believed that data also had the potential to play a significant role in EMS reimbursement decisions, including the national Medicare ambulance fee schedule that was being developed in the late 1990s.



EMS Agency Internal Information Needs

Clinical Care	
Business Operations	
Field Operations	
Workforce	

A collage of images related to EMS. On the left is a vertical list of terms: Clinical Care, Medical Direction, Clinical Performance, Protocol Compliance, EMS Education, Skills, and Clinical Outcomes. In the center is a circular flowchart with 'Medical Direction' at the top, 'Clinical Performance' on the left, 'Skills' at the bottom, and 'Clinical Outcomes' on the right. To the right are four images: a white ambulance, a paramedic attending to a patient on a stretcher, a screenshot of a website, and a green poster titled 'THE EMS PROVIDER'S TOOLKIT'.

SHIRS

Complexity and Flow of EMS Data and Information

Be sure to go to EMS.GOV
 Find the various documents
 Become more informed

SHIRS

What us Baby Boomers want from you:

- Evidence Based Medicine
- Best Practice
- Outcomes
- Metrics
- Evaluation
- Dying in not a technical glitch of the human operating system; it's a feature.


"If A is a success in life, then A equals x plus y plus z. Work is x; y is play; and z is keeping your mouth shut." Albert Einstein

Belinda Lucombe


SHIRS

At its core, health care is a profoundly human endeavor – one person and one family at a time.


EMS cannot and must not lose its fundamental compassion and humanity, even as pressure mounts as the industry radically transforms.




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Speak up!
or
Text to: **817-991-4487**



Philip R. Lee Institute for Health Policy Studies



**Evaluation of California's Community
Paramedicine Pilot Program**

Dr. Janet Coffman, MPP, PhD
Cynthia Wides, MA (presenter)
Matthew Niedzwiecki, PhD
Igor Geyn


April 24, 2017

Outline

- Overview of project and evaluation
- Findings
 - Safety
 - Effectiveness
 - Cost and savings
- Conclusion

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03/01/2017





Overview of Project and Evaluation

4/24/2017

Community Paramedicine Concepts

In June, 2015, 10 EMS agencies in California began testing 6 concepts in Community Paramedicine under the Health Workforce Pilot Projects program:

- Post-hospital discharge 30 day follow-up
- Frequent EMS user
- Directly Observed Therapy for Tuberculosis
- Home hospice support
- Alternate destination - mental health crisis center
- Alternate destination – medical care

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Evaluation

- Data reported by pilot sites on:
 - Numbers of patients enrolled and their characteristics
 - Provision of CP services/patient outcomes
 - Cost of providing CP services and ambulance transports
- Existing sources of data on cost of ED visits and hospital admissions and historical readmission rates
- Interviews and conference calls with EMS project manager, pilot project leaders, CPs, and partners to provide context for quantitative data

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4/24/2017





Findings – Patient Enrollment

4/24/2017

Cumulative Patients Enrolled by Concept Through September 2016

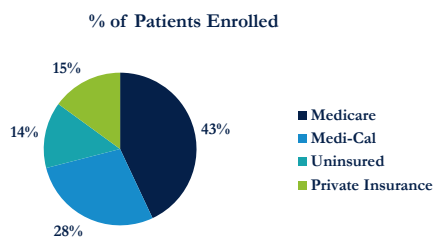
Concept	# enrolled
Post-Discharge 30 day Follow-Up	922
Frequent EMS Users	77
Directly Observed Therapy for Tuberculosis	29
Hospice	226
Alternate Destination – Mental Health	169
Alternate Destination – Medical Care	39
All Projects	1,462

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4/24/2017



Enrolled Patients' Payer Types – Through September 2016



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4/24/2017





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University of California
 San Francisco

Findings - Safety


4/24/2017

No Adverse Outcomes

- No enrolled patients enrolled experienced adverse health outcomes
- Improved patient safety:
 - Medication reconciliation and home safety inspections
 - Referrals to housing, social services, and behavioral health care improved patients' well-being
 - In the alternate destination – mental health project, having paramedics transport directly to mental health crisis center enabled law enforcement officers to focus on law enforcement duties
- Rerouting and secondary transports due to non-life threatening condition – 9 pts in Alt. Dest.-Behavior & 11 pts in Alt. Dest.-Medical

1/2

4/24/2017





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Effectiveness

4/24/2017

Post-Discharge Reduced Inpatient Readmissions

Post-discharge projects achieved statistically significant reductions in 30-day readmission rates.

- 4 (of 5) projects reduced readmissions for heart failure. The exception is due less intensive services in HF intervention.
- 3 (of 3) reduced readmissions for acute myocardial infarction (i.e., heart attack)
- 2 (of 2) reduced readmissions for chronic obstructive pulmonary disease
- 1 (of 1) reduced readmissions for pneumonia

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Evidence of Efficacy in Other Projects

Projects reduced ambulance transports and ED visits for:

- Frequent EMS users (focus on high volume callers)
- Hospice patients (pre-pilot 80%/post-pilot 36%)
- Persons with mental health needs (pre-pilot 100%/post-pilot 5%)
- TB project increased medication adherence (6% missed DOTs by CHWs/0.1% missed DOTs by CPs)

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4/24/2017





Cost and Savings

4/24/2017

Cost

- Monthly expenses were highly variable by:
 - program type,
 - provider type (public vs. private), and
 - full-time vs part-time use of CPs.



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4/24/2017



Savings

- Reductions in ambulance transports, ED visits, and inpatient admissions yielded savings for health plans & hospitals
 - Savings ranged from \$188 to \$1,754 per patient per month
 - Medicare & Medi-Cal realized savings based on project enrollment
 - Post-discharge projects reduced risk of readmission penalties hospital with Medicare patients
 - Frequent EMS user projects reduced uncompensated care provided by hospitals to uninsured persons

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4/24/2017





Conclusion

4/24/2017

Conclusion

- Specially-trained paramedics can provide services beyond their traditional and current statutory scope of practice in California
- Projects have improved patients' well-being
- No adverse outcomes for patients
- No other health professionals displaced
- In most cases, yielded savings for health plans and hospitals

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03/20/2017



Conclusion (cont'd.)

- Post-discharge, frequent EMS user, Tuberculosis, hospice, and alternate destination – mental health projects are safe and effective.
- More data are needed to make conclusions about the alternate destination – medical care projects despite paramedics' ability to triage patients accurately due to
 - The limited number of patients enrolled
 - The number of patients rerouted or transferred to an ED.

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03/20/2017



Through its singular focus on health,
UCSF is leading revolutions in health.



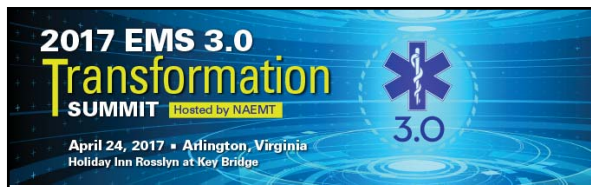
Thanks are extended to the pilot sites, project participants, the California Health Care Foundation, the California Emergency Medical Services Authority, and the California Office of Statewide Health Planning and Development.



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The Money...



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It's All About the Money \$\$\$
Funding Mobile Integrated Healthcare
Pilots and Programs: A Payers
Perspective

Stacy Elmer, MA, MPA, EMT
Director, Medical Device Integration and Special Programs
Kaiser Permanente

Why Mobile Integrated Healthcare?

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- > Nursing shortages
- > Physician shortages
- > Increase in covered care
- > Growing aging population
- > Misaligned financial incentives
- > Pressure to reduce health care costs

"I'm not sure I need an emergency room—is the..."

Why Mobile Integrated Healthcare?

EMS 3.0 Transformation SUMMIT HOSTED BY NAEMT

Triple Aim Impact

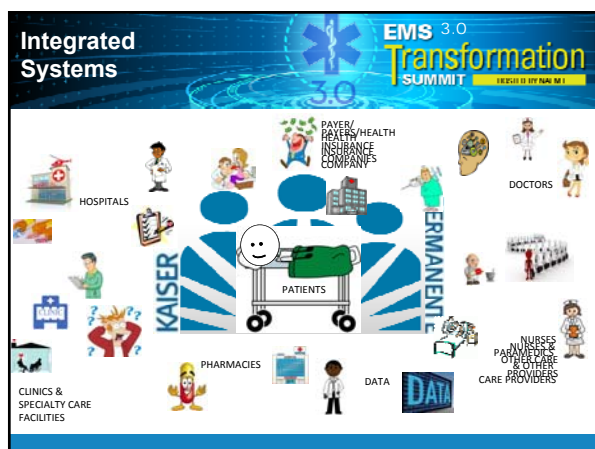
- Individual Care:** Prevention & most appropriate care providers; URGENT CARE; Alternative Destination Transport; Triage & Release/Refer; Frequent 911ED Utilizers
- Cost of Care:** Avoided ambulance rides & ED visits; Post-Discharge Follow Up; Alternative Destination Mental Health; Hospice Support
- Population Health:** Connecting to primary care & social services

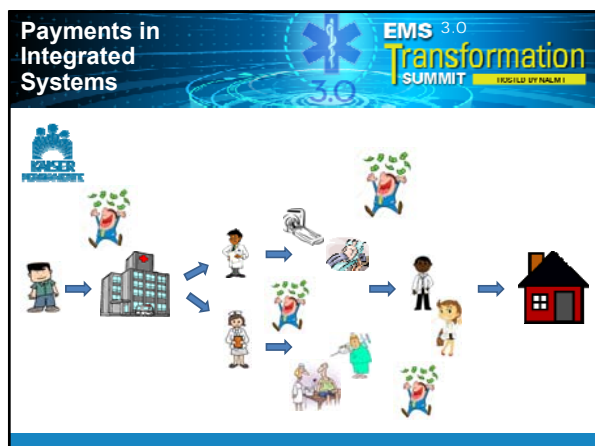
Why Systems Matter

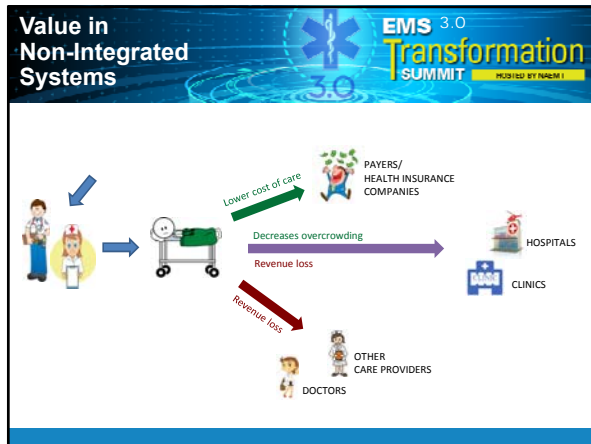
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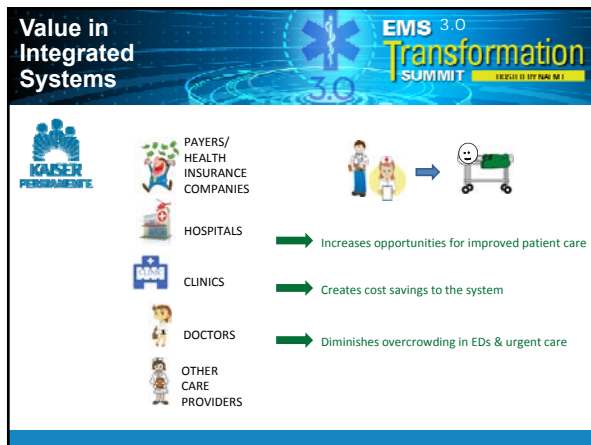
PATIENTS

- HOSPITALS
- CLINICS & SPECIALTY CARE FACILITIES
- PHARMACIES
- DATA
- DOCTORS
- NURSES, PARAMEDICS & OTHER CARE PROVIDERS
- PAYERS/HEALTH INSURANCE COMPANIES











Kaiser and Mobile Integrated Healthcare

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Kaiser Based EMS Models

- Post-discharge follow-up
- Management of chronic conditions
- Mental & behavioral health

The First Value Proposition

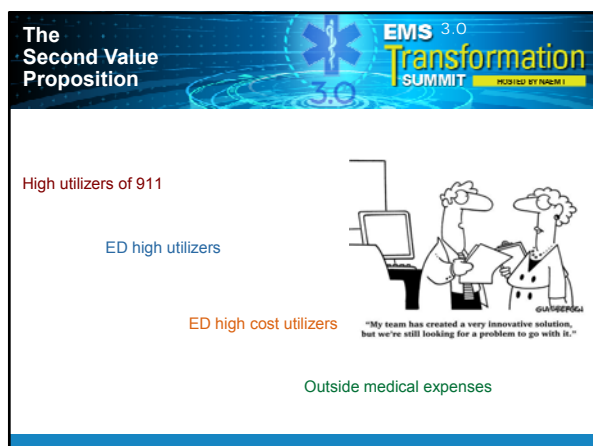
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- Kaiser + other payers
- Kaiser only

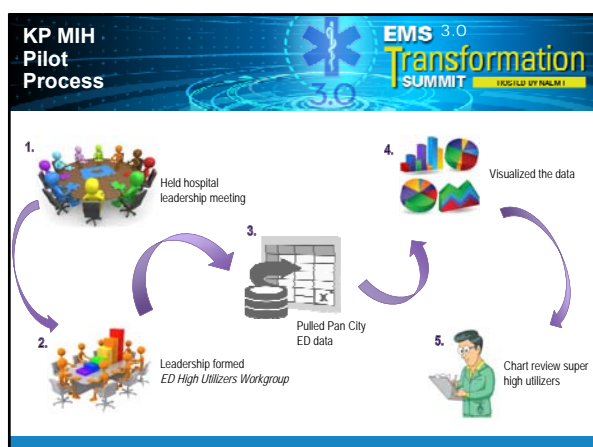
The Second Value Proposition

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Know the problem you are trying to solve










**KP MIH
Pilot
Process**

**EMS 3.0
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- 
 1. ED High Utilizers Workgroup – Meeting 1
 - Identified the problem
 - Socialized the data analysis process – introduced Tableau
- 
 2. ED High Utilizers Workgroup – Meeting 2
 - Reviewed data analysis
 - Narrowed down subgroups to target
- 
 3. Chart Review Party!!!!



**KP MIH
Pilot
Process**

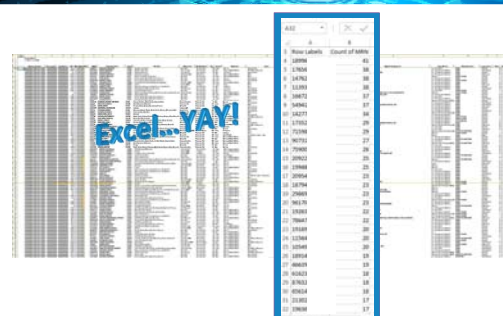
**EMS 3.0
Transformation
SUMMIT**
HOSTED BY FINALE 1

- 
 4. ED High Utilizers Workgroup – Meeting 3
 - Review chart review outcomes
 - Finalize subgroups to target
 - Map current KP assets and interventions available to address subgroups problems – identify gaps in the continuum for these members
- 
 5. Utilize video ethnography capability to talk with members in the identified subgroups about their ED utilization
- 
 6. ED High Utilizers Workgroup – Meeting 4
 - Review video ethnography
 - Empathy map members in targeted subgroups
 - Identify quality improvement needs in existing assets
 - Develop options for solutions to address gaps

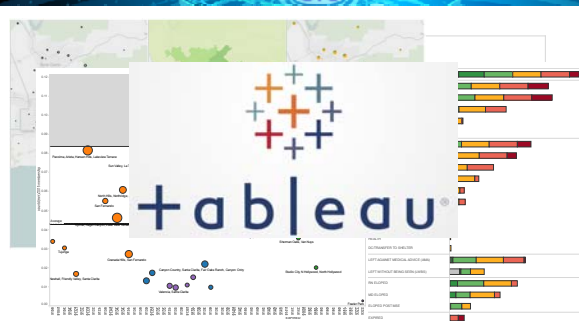
**KP MIH
Pilot
Process**

**EMS 3.0
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HOSTED BY FINALE 1

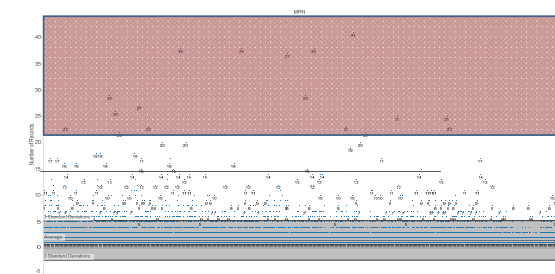
- 
 7. Validate proposed solutions with members
- 
 8. Convene ED High Utilizers Workgroup – Meeting 5
 - Review member input
 - Design plan for operationalizing solutions
- 
 9. Present proposal to hospital
10. Present proposal to regional leadership
11. Implement pilot program



Visualize Your Data

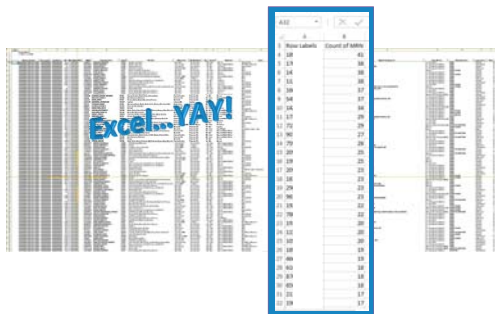


Understanding ED High Utilizers



Data as We Typically Know It

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Understanding ED High Utilizers

EMS 3.0
Transformation
SUMMIT ORANGE COUNTY CHAPTER

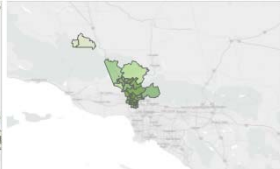
We started with all ED encounters that occurred at the Panorama City Medical Center from July 2014 – June 2015 (one calendar year).

62,152 encounters

Kept only the ED encounters attributable to **patients who live in the Panorama City Service Area.**

Before 62,152 encounters

After 51,348 encounters



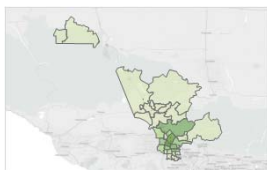
Understanding ED High Utilizers

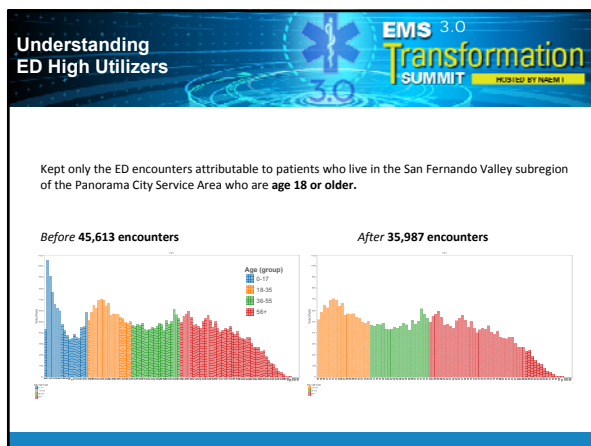
EMS 3.0
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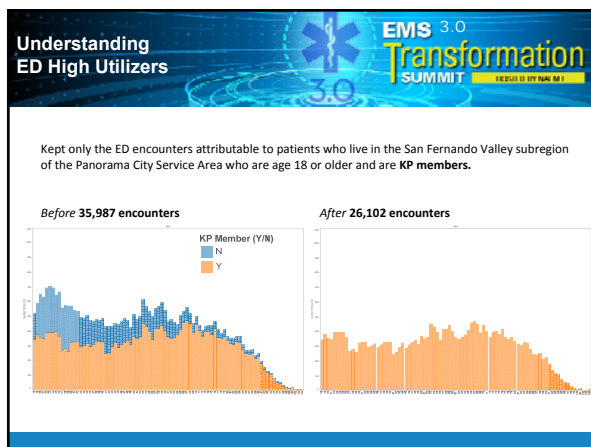
Kept only the ED encounters attributable to patients who live in the San Fernando Valley subregion of the Panorama City Service Area.

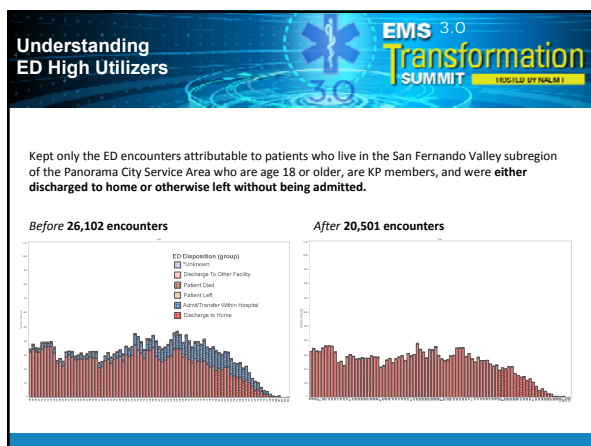
Before 51,348 encounters

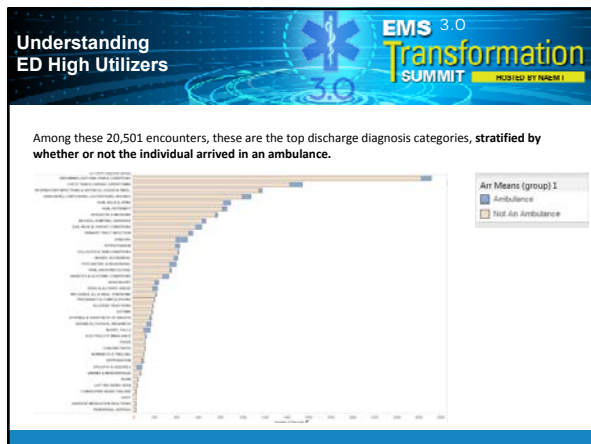
After 45,613 encounters

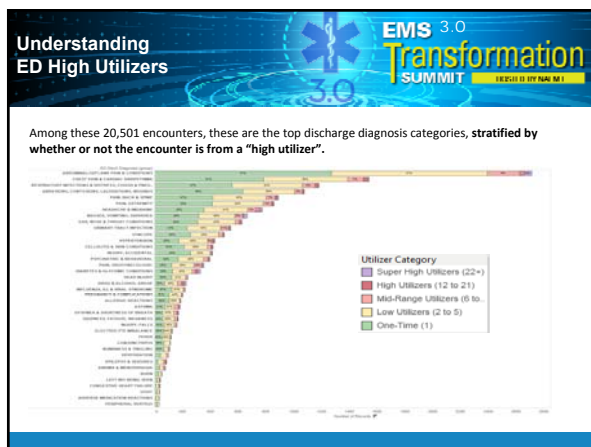
[illegible]











Understanding ED High Utilizers

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Among the target subset (San Fernando Valley, Panorama City Members, Age 18+)

	Unique Patients	# Encounters
1-time utilizers	9,759	9,759
Low Utilizers (2-5 times)	4,155	8,524
Moderate-to-High Utilizers (6-21 times)	362	2,993
Super High Utilizers (22+ times)	10	225

Closing Thought

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 SUMMIT

DATA IS THE KEY

THANK YOU!

If a dog wore pants would he wear them
 like this or like this?

Stacy.Elmer@kp.org
HAZARD PERMANENTLY thrive

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 SUMMIT

Attention Please!

- \$10,372 per capita health expenditures (2016)!!
 - 18.1% GDP
- Due in large part to quantity-based payments


<http://content.healthaffairs.org/content/early/2017/02/14/hihaff.2016.1627.full>

EMS Economics 1.0

- You call
- We haul
- That's all

EMS Economics 1.0

- Misaligned Incentives
 - Only paid to transport
 - "EMS" is a **transportation** benefit
 - NOT a medical benefit




EMS 3.0
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EMS Economics 2.0

- Movement toward alternate payment models
 - Mobile Integrated Healthcare
 - Enrollment fees
 - Patient contact fees
 - Limited capitation





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EMS Economics 3.0

- \$ for response vs. transport
- Population based payments
 - PM/PM
- Shared savings models
 - Downstream savings for patient navigation



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Poll: What is your _____ cost....

- Ambulance
 - Annual
 - Unit Hour
 - Response
 - Transport
- Engine
 - Annual
 - Unit Hour
 - Response

EMS 3.0
Transformation
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Cost of Service - EMS

- If you were to STOP providing EMS, what costs would you eliminate?
 - Personnel
 - Ambulances
 - W/equipment
 - Ambulance supervision
 - EMT/Paramedic stipends
 - EMS Training costs
 - 1st Response costs
 - Fuel, medical supplies, wear and tear

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Revenue Analysis

- Poll –
 - What is your average patient charge?
 - What is your amount collected per transport?
 - What is your collection rate?
 - Who is your largest payer
 - Billed?
 - Collected?

Agency Name: Anytown, USA

= User Entered Fields

= Auto-Calculated/Protected Fields

Notes:

Population 20,000 Total population served

Annual Ambulance Unit Hours 8,760 Total Ambulance on-duty hours/yr (i.e.: 1 Ambulance 24/7 is 24 * 365 = 8,760)

EMS Calls/Yr 1,000 Annual EMS responses in which an ambulance was dispatched

EMS Transports/Yr 700 Annual ambulance transports

UH/U 0.114 Annual ambulance transports divided by annual unit hours

Per Ambulance

FTEs 7 Number of FTEs required to be hired to staff the ambulance(s)

Cost/FTE \$ 80,000 All costs, pay, benefits, uniform, personal equipment, pension costs, etc.

Personnel cost \$ 560,000 FTEs * Personnel cost

Ambulance \$ 150,000 Cost of the ambulance, delivered

Equipment \$ 50,000 Cot, monitor, etc.

Cost \$ 200,000 Total costs

Useful Life/Years 5 Depreciation expense

Number of Ambulances 1 Count of ambulances in the fleet

Ambulance Cost \$ 40,000 Annual cost of each ambulance

Total Annual

\$ 675,750

Cost/UH \$ 77.14 Total costs divided by annual *unit hours*

Cost/Response \$ 675.75 Total costs divided by annual *responses*

Cost/Transport \$ 965.36 Total costs divided by annual *transports*

Economic Analysis

Cost per Transport \$ 965.36

Average Collection Rate 30% From Billing Analysis

Gross APC \$ 3,217.86 Amount needed to collect enough \$ per transport to cover cost of EMS

Net APC - Check \$ 965.36

Agency Name: Anytown, USA

= User Entered Fields

= Auto-Calculated/Protected Fields

Commercial Payer - Analysis

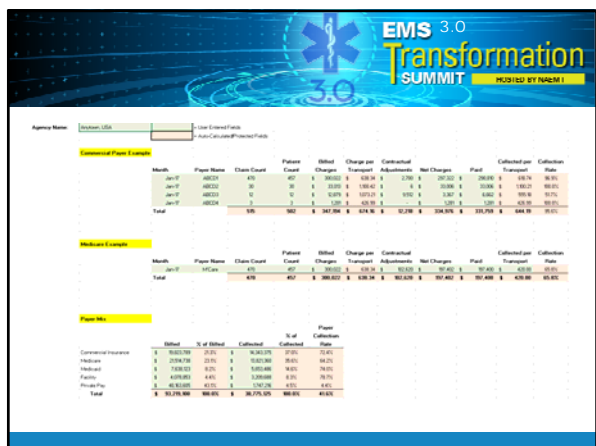
Payer:


Date Range:


Members:

Ambulance Analysis - All Members

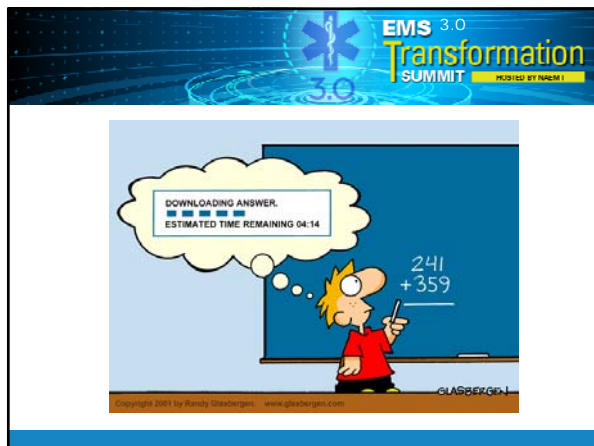
	Annually	Monthly
Number of Trips	5,325	444
% "Emergency"	78.0%	78.0%
Total \$ Billed	\$7,542,565	\$628,547
\$ Paid	\$5,517,751	\$459,813
Current \$ Outstanding	\$1,726,669	\$143,889
Total Ambulance Expenditure	\$7,244,420	\$603,702
Gross APC	\$1,416.44	
Average Ambulance Expenditure	\$1,360.45	

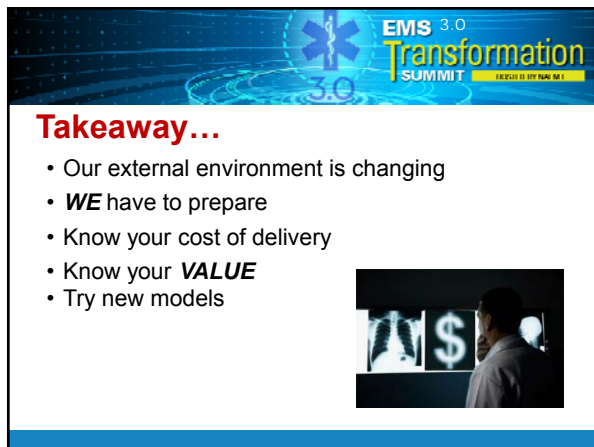


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1st Response Units	(i.e. Engine)	Notes:	
FTEs	15	Number of FTEs required to be hired to staff the 1st Response Units	
EMT/Paramedic Diff	\$ 6,000	Annual pay premiums for EMT or paramedic certification per employee	
EMS Training	\$ 5,000	Annual cost EMS related training and/or backfill	
Equipment	\$ 30,000	Cost for capital EMS equipment for the Engine (cardiac monitor, etc.)	
Useful Life (in years)	5	Average useful life for capital equipment	
Annual Cost	\$ 6,000	Allocated cost per year for equipment	
Number of 1st Response Units	1		
Annual Equipment Cost	\$ 6,000		
Fuel	\$ 5,000	Fuel cost for running an EMS call	
Supplies	\$ 10,000	Disposable supplies used for EMS calls	
Total Annual	\$ 32,000		
Cost/Unit	\$ 3.65	Total cost divided by annual <u>unit hours</u>	
Cost/Response	\$ 32.00	Total cost divided by annual <u>responses</u>	
Cost/Transport	\$ 45.71		

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Medicaid PMPM Analysis		
Average Enrollment	5,000	10,000
Trips/Mo	147	294
Utilization %	2.935%	2.935%
Time on Task (hours)	1.1	1.1
Fully Allocated Hourly Expense (1)	\$ 170.93	\$ 170.93
Trip Expense	\$ 27.592	\$ 55.185
Admin Monthly Expense (2)	\$ 8,850	\$ 17,700
Sub-Total Monthly Expense	\$ 36,442	\$ 72,885
Risk Adjustment %	15.0%	15.0%
Risk Adjustment \$	\$ 5,466	\$ 10,933
MIH Factor	15%	15%
MIH \$	\$ 5,466	\$ 10,933
Total Expense	\$ 47,375	\$ 94,750
Per Patient/Per Month	\$ 9.48	\$ 9.48
Monthly Expenditure	\$ 47,375	\$ 94,750
Notes: (1) - Includes pay/pat related, vehicle, equipment, supplies, I/T, etc. (2) - Includes patient record entry, CAD entry, reconciliation, billing		

79




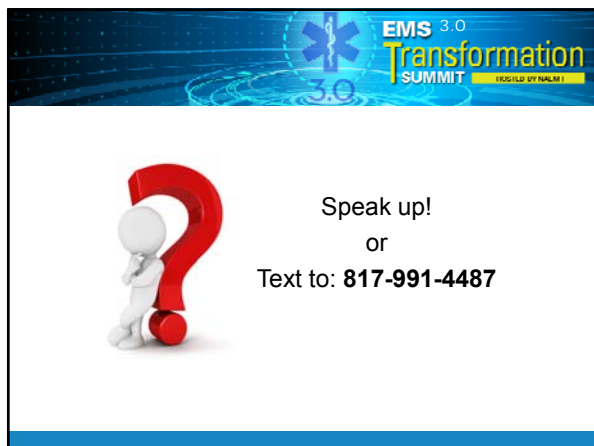


EMS 3.0 Transformation SUMMIT HOSTED BY NAEMT


Takeaway...

- Our external environment is changing
- **WE** have to prepare
- Know your cost of delivery
- Know your **VALUE**
- Try new models





EMS 3.0 Transformation SUMMIT HOSTED BY NAEMT



Speak up!
 or
 Text to: **817-991-4487**



2017 EMS 3.0
Transformation
SUMMIT

Hosted by NAEMT

April 24, 2017 • Arlington, Virginia
Holiday Inn Rosslyn at Key Bridge

The Education...

THE
IMPORTANCE OF
CREDENTIALING

JOHN R. CLARK, JD, MBA, NRP, FP-C, CCP-C, CMTE
CHIEF OPERATING OFFICER
INTERNATIONAL BOARD OF SPECIALTY CERTIFICATION [USA]

National Registry of
Emergency Medical Technicians®
THE AUTHORITY'S EMS CERTIFICATION™

WHY SPECIALTY CERTIFICATION?



- ▶ SPECIALTY CERTIFICATION allows PATIENTS to confidently place their TRUST in their healthcare providers.
- ▶ Demonstrates a MASTERY LEVEL OF PARAMEDIC PRACTICE coupled with entry-level competency over the knowledge, skills and abilities contained within a SPECIALIZED AREA OF PRACTICE.
- ▶ Exhibits a PROFESSIONAL commitment to the PUBLIC, EMPLOYERS and PEERS.



WHAT IS SPECIALTY CERTIFICATION

- ▶ The process of validating KNOWLEDGE and SKILLS of a provider.
- ▶ Follows a STANDARDIZED PROCESS involving data collection, primary source verification and committee review.
- ▶ Assurance of a professional's MERIT and EXPERIENCE.
- ▶ EXAMINATIONS are not meant to test entry-level knowledge, but rather to VALIDATE the EXPERIENCED PARAMEDICS' skills and knowledge.



MAJOR CREDENTIALING PHASES

- ▶ Qualification
- ▶ Application
- ▶ Examination eligibility
- ▶ Examination
- ▶ Certification



PRACTICE ANALYSIS

- ▶ SURVEY practicing professionals regarding the COMPONENTS of their PRACTICE.
- ▶ CONTENT VALIDATION studies are conducted for each exam EVERY 3–5 YEARS.



DETAILED CONTENT OUTLINE or BLUEPRINT

- ▶ Based on the results of these studies, examination BLUEPRINTS are created that capture the PRACTICE AREAS that make up the specialty.
- ▶ QUESTIONS are written for the examinations to MATCH the blueprint.
- ▶ This process insures that the exams reflect the STATE OF PRACTICE.



GUIDELINES

- ▶ There is NOT a prescribed education program tied to any examination.
- ▶ Examinations measure a UNIQUE DOMAIN BEYOND ENTRY-LEVEL CERTIFICATION or licensure.



MITGATING THE LEGAL RISK

- ▶ The LEGAL RISK to the employer and the medical director INCREASES EXPONENTIALLY without validation of clinical competency.
- ▶ The exam development processes and the exam evaluation procedures are PSYCHOMETRICALLY SOUND and LEGALLY DEFENSIBLE
- ▶ This INSURES that the examinations are a TRUE and ACCURATE measure of knowledge, skills and abilities.



HISTORICAL STATE

The US EMS system started with regional schemes and moved towards a national model.

- TECHNICIANS functioning under a physician license.
- In the shadow of NURSING.
- FRAGMENTED regulatory schemes from state to state.
- Multiple designations and ALPHABET SOUP.



VERSION 3.0

Standardization of EMS nomenclature.

The creation of the US COLLEGE OF PARAMEDICS as the independent professional body for EMS providers in the United States.

- Must be an INDEPENDENT professional body and comes FROM THE COMMUNITY.
- For SPECIALIZED AREAS OF PRACTICE, candidates need more than certificate education.



VERSION 3.0 – SELF GOVERNANCE

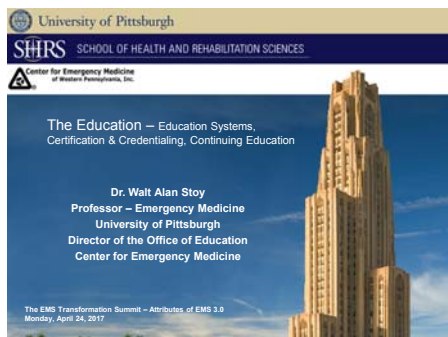
As an occupational group evolves over time and comes to develop a specialized body of knowledge; members of the group become experts. Due to this knowledge being so specialized, the Government is presented with the difficult and expensive task of determining and monitoring standards of practice for the profession in question. The thought is therefore that, *members of a profession are in the best position to set standards and to evaluate whether they have been met.*

Randall, G. E. (2000). Understanding Professional Self-Regulation from
http://jam.in1touch.org/uploaded/web/pdf/Understanding%20Professional%20Self-Regulation.pdf






jclark@bcctpc.org
@clarkjrc



SHHS

"In times of rapid change,
 experience could be your worst
 enemy."

J. Paul Getty



SHHS

The Greatest Threat To Future
 Success... Is Prior Success
 Jeffrey Romoff

Major Marketplace Changes
 Underway

Health Care Spending On Unsustainable Path
Science Will Radically Transform Patient Care
Consumerization of Health Care



SHHS

**Health Care Spending On
 Unsustainable Path**

Approaching 20% of U. S. economy

Government/subsidized care (Medicare,
 Medicaid, Health Exchange) majority of
 provider revenue

Growth in high deductible plans – shifting cost

Industry consolidation

SHHS

Factors Affecting EMS Education

Continued escalation of cost of the education in the EMS domain is a concern
 Cost of products, services and personnel required to provide instruction pushes up cost that must be transferred to the student

Cho-choing! **\$\$\$**

SHHS


Factors Affecting EMS Education

Trying to keep up with the others...

Simulation Center

Accreditation Cost

CoAEMSP Stoy - Disclosure (if I haven't already done so...)

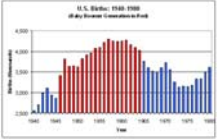


SHHS


Science Will Radically Transform Patient Care

Unlocking insights:

- Aging
- Immunology
- Genetics



We are living longer, but for some, not necessarily healthier lives



Consumerization of Health Care

Consumers make choices based upon
price, service and convenience

Need to ensure connectedness with
"stickiness"


Affordable Care Act – 20+ million
newly insured



We Need to Stop Talking and Thinking ONLY in the EMS Domain

Retailers Thought Their Competition Was
Other Retail Entities – They Were Wrong





Deconstructing the Present to Create the Future of EMS Education

If We Are NOT Initiating and
Embracing Innovative Disruption,
We Will Be Its Victim

We Must Deconstruct and Reconstruct
To Create The Future

SHIRS

Always Seeking Breakthroughs
and Innovation


Emergency Medical Service
Education Trust
(EMSET)

Consortium of Academic Program in
Emergency Medical Services
(CAPEMS)

SHIRS

Committee on Accreditation
of Educational Programs for the
Emergency Medical Services Professions

CoAEMSP
Accreditation is credible education



Commission on Accreditation
of Allied Health Education Programs

SHIRS

CoAEMSP is here – not the future of MIH/CP




50 Years of Making EMS Systems Improve


ems.gov



SHIRS

Curricula Alteration








EM 1250 – Introduction to Community Health
2 credits

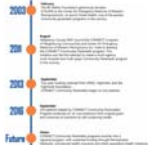
EM 1251 – Mobile Integrated Health Care
2 credits

SHIRS










CONNECT Community Paramedics Timeline

- 2013** - 1st year of operation, 1st year of funding, 1st year of training.
- 2012** - 1st year of operation, 1st year of funding, 1st year of training.
- 2011** - 1st year of operation, 1st year of funding, 1st year of training.
- 2010** - 1st year of operation, 1st year of funding, 1st year of training.
- 2009** - 1st year of operation, 1st year of funding, 1st year of training.
- 2008** - 1st year of operation, 1st year of funding, 1st year of training.
- 2007** - 1st year of operation, 1st year of funding, 1st year of training.
- 2006** - 1st year of operation, 1st year of funding, 1st year of training.
- 2005** - 1st year of operation, 1st year of funding, 1st year of training.
- 2004** - 1st year of operation, 1st year of funding, 1st year of training.
- 2003** - 1st year of operation, 1st year of funding, 1st year of training.





Nursing Alternative

Students positioned to take 24 of their senior credits in Nursing or other areas


One year or three terms to complete
 Accelerated BSN

Can move from this to Doctorate of Nurse Practitioner Program






Community Engagement Center (CEC)



EMT Students
 Paramedic Students
 Senior EM Students
 Alumni and others
 A school-wide effort
 Moving Health Care to the Under Served




Operation Safety Net

Decades of effort by Dr. Jim Withers

David Gloss EM Graduate of 2015

Internships with our senior students



Protocols
 Medication List
 Nation Curricula
 Conference

SHIRS

"No idea for a new growth business ever comes fully shaped. When it emerges, it's half-baked, and it then goes through a process of becoming fully shaped."


- Clayton M. Christensen: American author



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April 24, 2017 • Arlington, Virginia
Holiday Inn Rosslyn at Key Bridge

The Politics...

Politics & Washington, An Update from the Battlefield

April 24, 2017

As of January 20, 2017, the Republican Party Has:

1) The Presidency.

2) A majority of the House of Representatives.

3) A majority of the Senate.

4) Almost two-thirds of all governorships.

5) Total control of the statehouses in almost two-thirds of all the states.

And, as of April 7, Republicans added:

6) A majority of the Supreme Court (5-4)

The above has never happened
before in American history.

KIMBELL 279

A Historic Victory

Trump won 306 electoral votes, the most for a Republican since George H.W. Bush in 1988

Trump won over 2,600 counties nationwide, the most since Reagan in 1984

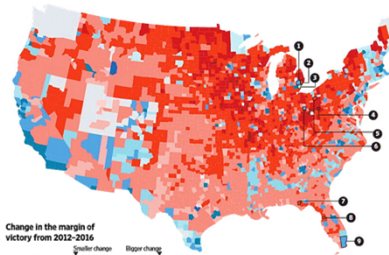
Trump won over 62 million votes in the popular vote, the highest all-time for a Republican nominee

Trump won over 200 counties nationwide that Obama won in 2012

KIMBELL 280

A Changing Portrait of Red and Blue

Hillary Clinton drew heavy support from urban areas and some Hispanic parts of the country, but was overpowered by Donald Trump's stronger showing in small and rural communities. She was also hurt by declining vote totals among African Americans.



KIMBELL 281

Republicans Maintain Majority of U.S. House

Democrats 194 (+6) Republicans 241 (-6)



KIMBELL 282

Republicans Win Big at the State Level

Republicans now control 69 of 99 state legislative chambers and the governor's mansion in 33 states

25 states have both a Republican governor and Republican state legislature

20 states have some form of Republican control (either one or both chambers, or governor)



Source: The Washington Post

KIMBELL 283

America is Seeing Red

State & Federal Breakdown of Legislators and Executives by Party

		2009	2017	Dem Change
State House	Republicans	2,334	3,052	-735
	Democrats	3,058	2,323	
State Senate	Republicans	889	1,151	-218
	Democrats	1,024	806	
Governors	Republicans	22	33	-12
	Democrats	28	16	
Attorneys General	Republicans	18	29	-15
	Democrats	32	17	
U.S. House	Republicans	178	241	-63
	Democrats	257	194	
U.S. Senate	Republicans	41	52	-11
	Democrats	59	48	

There is one independent Governor (Bill Walker, Alaska) and there are three non-partisan and one independent Attorneys General

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U.S. Senate Elections 2018



8 Republicans up for Re-election

Orin Hatch (UT)
Deb Fischer (NE)
Jeff Flake (AZ)
Ted Cruz (TX)
Dean Heller (NV)
Roger Wicker (MS)
John Barrasso, MD (R-WY)
Bob Corker (TN)

25 Democrats up for Re-election (Includes 2 Independents)

Claire McCaskill (MO)	Trump +19	Bob Menendez (NJ)
Heidi Heitkamp (ND)	Trump +36	Mazie Hirono (HI)
Joe Manchin (WV)	Trump +42	Kirsten Gillibrand (NY)
Sherrod Brown (OH)	Trump +48	Amy Klobuchar (MN)
Jon Tester (MT)	Trump +21	Debbie Stabenow (MI)
Joe Donnelly (IN)	Trump +19	Maria Cantwell (WA)
Bob Casey (PA)	Trump +1	Sheldon Whitehouse (RI)
Bill Nelson (FL)	Trump +1	Bernie Sanders (I-VT)
Tim Kaine (VA)	Clinton +5	Martin Heinrich (NM)
Tammy Baldwin (WI)	Trump +2	Ben Cardin (MD)
Elizabeth Warren (MA)		Chris Murphy (CT)
Dianne Feinstein (CA) - Retire?, B3		Tom Carper (DE)
		Angus King (I-ME)

Safe Dem/GOP Lean Dem/GOP Most Likely to Flip

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Key White House Officials



Reince Priebus - Chief of Staff
Former head of the Republican National Committee



Stephen Bannon - Chief Strategist and Senior Counselor to the President
Former Executive Chairman of Breitbart News Network



Jared Kushner - Senior White House Advisor
Trump son-in-law; CEO of Kushner Companies and publisher of the New York Observer



Rick Dearborn - Deputy Chief of Staff for Policy
Former top aide to Sen. Jeff Sessions (R-AL) and nominee for Attorney General



Sean Cairncross - Deputy Assistant to the President and Senior Adviser to the Chief of Staff
Republican National Committee Chief Operating Officer and Deputy Executive Director and General Counsel to the National Republican Senatorial Committee for two cycles (2009-2012)

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Key White House Officials



Kellyanne Conway - Counselor to the President - Founder and owner of The Polling Company, Inc./WomanTrend, a polling and research firm that has served leading political figures, nonprofits and companies.



Marc Short - Assistant to the President and Director of Legislative Affairs - Previously worked as a top operative running the political network of the Koch brothers; also a longtime adviser to Pence. Former Chief of Staff to Sen. Kay Bailey Hutchison (R-TX) and Pence, when he was in the House. During the 2016 campaign, Short worked as an adviser to Sen. Marco Rubio during the primaries, later as a senior adviser for Pence during the general election.



Andrew Bremberg - Director of the White House Domestic Policy Council - Worked at the U.S. Department of Health and Human Services from 2001 to 2009, including serving as the Chief of Staff for the Office of Public Health and Science. He later served as Policy Advisor and Counsel on Nominations for Senator Mitch McConnell. Also worked as the Policy Director for the 2016 Republican Party Platform.



Katy Talento - Domestic Policy Council Advisor for Healthcare Policy - Infectious disease epidemiologist with nearly 20 years of experience in public health and health policy, as well as government oversight and investigations and program evaluation, served on the campaign since July 2016. Talento spent 12 years in the U.S. Senate, working for five Senators and two committees.



Donald McGahn - Assistant to the President and White House Counsel - Partner at Jones Day in Washington, DC, and has specialized in political law, including government ethics; served as a member of the FEC five years, during which he served as both chairman and vice chairman).

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Trump's Current Cabinet



Rex Tillerson - Secretary of State
•Former ExxonMobil CEO (2006-2016)
•Has expressed support for Trans-Pacific Partnership (TPP)
•Recommended to Trump by Condoleezza Rice



Steven Mnuchin - Secretary of the Treasury
•Nation Finance Chairman for Trump Campaign
•Former hedge fund manager and COO of Goldman Sachs



James Mattis - Secretary of Defense
•Four-star general of the United States Marine Corps
•Served as 32nd Commander of the United States Central Command



Jeff Sessions - Attorney General
•Current Alabama Senator (1997-present)
•Former U.S. Attorney for the Southern District of Alabama (1981-1993)
•Former Attorney General of Alabama (1995-1997)



Ryan Zinke - Secretary of the Interior
•Former Representative for Montana's at-large congressional district
•Served on the Montana Senate from 2009-2011
•Served as a US Navy Seal from 1989-2008



Sonny Perdue - Secretary of Agriculture Nominee
•81st Governor of Georgia (2003-2011)
•Serves on the Government's Council of the Bipartisan Policy Center
•Served in the US Air Force (1971-1974)



Wilbur Ross - Secretary of Commerce
•Investment banker specializing in leveraged buyouts and bankruptcy
•Served under Bill Clinton on the Board of the U.S.-Russia Investment Fund



Alex Acosta - Secretary of Labor Nominee
•Dean of the Florida International University College of Law
•Appointed by George W. Bush to the National Labor Relations Board
•Served as Assistant Attorney General for Civil Rights in Florida



Tom Price - Secretary of Health and Human Services
•Former Representative for Georgia's 6th Congressional District
•Served as chairman of the House Budget Committee
•Orthopedic surgeon



Ben Carson - Secretary of Housing and Urban Development
•Candidate for President in the 2016 Republican primaries
•Director of Pediatric Neurosurgery from 1984-2013



Elaine Cho - Secretary of Transportation
•Served as Secretary of Labor under George W. Bush from 2001-2009
•Served as Deputy Secretary of Transportation and Director of the Peace Corps under George W. Bush



Rick Perry - Secretary of Energy
•Served as the 49th Governor of Texas from 2000-2010
•Candidate for President in the 2012 and 2016 Republican primaries

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Trump's Current Cabinet

 Betsy DeVos – Education Secretary • Chairs the American Federation for Children, which promotes charter school education • Activist for school choice issues as well as promoting charter schools	 David Shulkin – Secretary of Veterans Affairs • Served as Under Secretary of Health for the Department of Veterans Affairs in the Obama Administration (2012-2017) • Former President and CEO of Beth Israel Medical Center
 John F. Kelly – Secretary of Homeland Security • Former U.S. Marine Corps General • Served as Commander of the United States Southern Command • Former senior military assistant to the Secretary of Defense	 Reince Priebus – White House Chief of Staff • Former head of the Republican National Committee
 Robert Lighthizer – U.S. Trade Representative • Partner at Skadden, Arps, Slate, Meagher & Flom • Served as Deputy Trade Representative during the Reagan administration	 Dan Coats – Director of National Intelligence • Former Senator for Indiana from 1989-1999 and 2011-2017 • Served as U.S. Ambassador to Germany from 2002-2005 • Former member of the U.S. House of Representatives for Indiana (1983-1989)
 Nikki Haley – Ambassador to the United Nations • Current Governor of South Carolina (2011-present) • Previously worked in mother's clothing business, and served in South Carolina House of Representatives	 Mick Mulvaney – Director of the Office of Management and Budget • Former U.S. Representative of South Carolina's 5th congressional district • Two-term member
 Mike Pompeo – Director of the Central Intelligence Agency • Former U.S. Representative for Kansas's 4th District • Member of House Intelligence Committee • Deputy director of Military Chemical Defense Research Institution	 Scott Pruitt – Administrator of the Environmental Protection Agency • Served as Oklahoma Attorney General from 2011-2017 • Strong opponent to environmental regulations
 Linda McMonagle – Administrator of the Small Business Administration • Former executive of World Wrestling Federation/Entertainment	

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Trump's First 200 Days

Fill Cabinet ✓	Supreme Court Confirmation ✓	Repeal/Replace ACA*
Tax Reform	Renegotiate trade deals	Immigration reform/Mexico border wall
"Drain the Swamp"	Infrastructure	Government-wide regulatory review

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Trump's 4,100 Presidential Appointees

- Positions range from high-profile advisers and Cabinet posts to ambassadors, small agency directors and special assistants
- These are all of the politically appointed positions listed in the Office of Personnel Management's newly released Plum Book. Some may not be filled in the Trump Administration.

1,242	• Presidential Appointees who DO need Senate confirmation • Includes Cabinet secretaries, agency directors and ambassadors
472	• Presidential appointees who do NOT need Senate confirmation • Includes most White House staff, including senior advisors such as chief of staff and press secretary, along with heads of smaller agencies
761	• Non-career Senior Executive Service positions • Nearly 7,000 people fall under Senior Executive Service banner, overseeing nearly all gov. activities. Roughly 10% are designated "non-career" and change with the incoming president
1,538	• Schedule C appointments • Personnel who report directly to presidential appointees but are not in senior leadership roles

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Make-Up of the 115th Congress (2017-2018)

While the 115th Congress will include a record number of minority women, Congress will remain overwhelmingly white, male, and middle-aged.

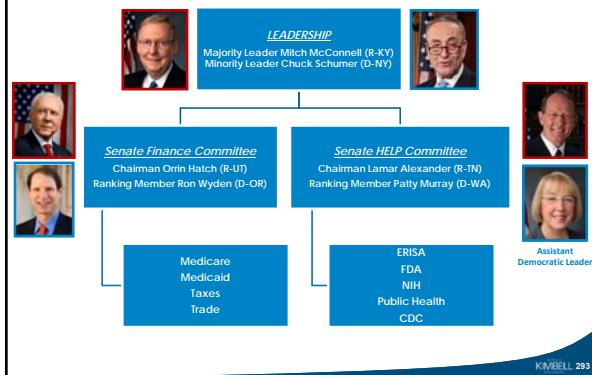
60	• Freshman members of the House and Senate (includes 1 non-voting member)
104	• Women who will serve in the 115 th Congress • The same number as the 114 th Congress, and 19.4% of the total number of lawmakers
49	• African-Americans who will serve in the 115 th Congress, including 46 in the House (+2) • Three of these Members are Republicans
38	• The record number of Hispanics who will serve in the 115 th Congress, including 35 in the House
15	• Asian Americans who will serve in Congress, including 12 in the House (+5)
3	• Former House Democrats who won their old seats back: Colleen Hanabusa (HI), Brad Schneider (IL), and Carol Shea-Porter (NH)

Source: The Hill

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Senate Health Jurisdiction

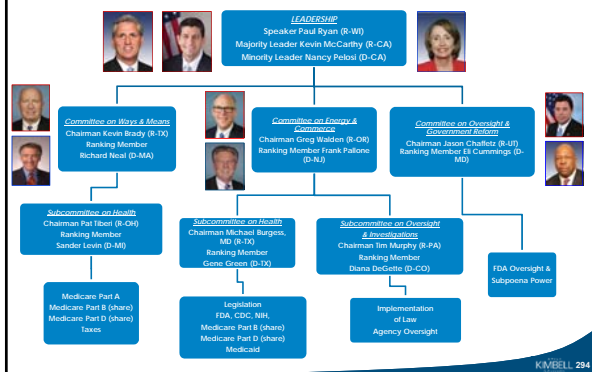
115th Congress



KIMBELL 293

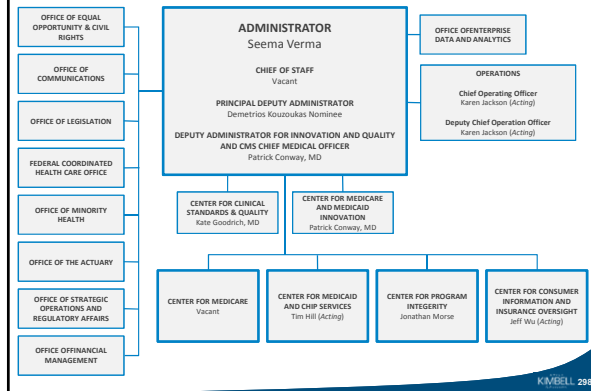
House Health Jurisdiction

115th Congress



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The Centers for Medicare & Medicaid Services (CMS)



Price and Verma Set to Lead the Charge

Rep. Tom Price, MD (GA) Confirmed as HHS Secretary

- Orthopedic Surgeon from Roswell, GA
- Received Bachelor and Doctor of Medicine degrees from the University of Michigan, completed his Orthopedic Surgery residency at Emory University
- U.S. House of Representatives, 2004-Present
- Chairman, House Budget Committee (114th Congress) and Member, Ways & Means Health Subcommittee
- Previously served as Chairman of the House Republican Policy Committee and as Chairman of the Republican Study Committee
- Outspoken critic of Obamacare
- Four term member of Georgia State Senate where he served two terms as Minority Whip and became the first ever Republican Senate Majority Leader
- Previously served as an Assistant professor at Emory University School of Medicine
- Formerly the Medical Director of the Orthopedic Clinic at Grady Memorial Hospital in Atlanta

Seema Verma Confirmed as CMS Administrator

- Indiana health policy consultant
- Received Masters in Public Health with concentration in health policy and management from Johns Hopkins University and Bachelor degree in Life Sciences from the University of Maryland
- President, CEO, and founder of SVC, Inc., a national health policy consulting company
- Architect of the Healthy Indiana Plan (HIP), the nation's first consumer directed Medicaid program
- Associated in the development of recent Medicaid reform programs including waivers for Iowa, Ohio, Kentucky, and helped design Tennessee's coverage expansion proposal
- Participated on the Republican Governor's Public Policy Committee on Medicaid reform
- Testified before the House Energy & Commerce Health Subcommittee and presented to the House Energy & Commerce Committee's Medicaid Task Force
- Previously served as Vice President of Planning for the Health & Hospital Corporation of Marion County and as a Director with the Association of State and Territorial Health Officials (ASTHO)

Demetrios Kouzoukas, JD, Nominated as CMS Principal Deputy Administrator

- Washington based attorney
- Received his Juris Doctor degree from the University of Illinois College of Law and his Bachelor's degree in Political Science and Public Policy from the George Washington University
- Served as Deputy General Counsel and Principal Associate Deputy Secretary of the U.S. Department of Health and Human Services (HHS) under the George W. Bush Administration
- Responsible for overseeing HHS's government ethics compliance function
- Previously served as General Counsel for UnitedHealthCare Medicare & Retirement
- Also served as Of Counsel for Covington & Burling LLP in their Health Care and Food & Drug Practice groups

Other Key HHS Officials

- » **Eric Hargan – Deputy Secretary Nominee**
 - Previously Acting Deputy Secretary of HHS and Regulatory Policy Officer in the George W. Bush Administration
 - Formerly a shareholder in Greenberg Traurig's Health & FDA Practice
- » **Paula Stannard – Senior Adviser to the Secretary**
 - Former Deputy General Counsel and Acting General Counsel at HHS
 - Formerly worked for Alston & Bird LLP
- » **John Brooks – Counselor for Health Policy**
 - Former Senior Principal and Department Head, Health Policy and Economics, the MITRE Corporation
- » **Mary Sumpter Lapinski – Counselor for Public Health and Science**
 - Served as Health Policy Director on the Senate HELP Committee
- » **Sarah Arbes – Principal Deputy Assistant Secretary for Legislation**
 - Former Vice President of Business Roundtable
 - Served as Deputy Health Policy Director on the Senate HELP Committee
 - Former Legislative Assistant for Senator Mitch McConnell (R-KY)
- » **Laura Kemper – Deputy Assistant Secretary for Legislation**
 - Served as Counsel for Senator John Cornyn (R-TX) and as a Health Policy Advisor to Tom Price during his time in the House
 - Former Associate at Alston & Bird
- » **Courtney Lawrence – Deputy Assistant Secretary for Legislation**
 - Served as Interim Vice President of Federal and External Affairs at America's Health Insurance Plans (AHIP)

Appointments at HHS

181

SAMPLE POSITIONS

19

- Presidential Appointees who **DO** need Senate confirmation

- Secretary, Deputy Secretary, Assistant Secretaries
- General Counsel
- Surgeon General
- CMS Administrator, FDA Commissioner

2

- Presidential appointees who do **NOT** need Senate confirmation

- Director, National Cancer Institute
- Assistant Secretary for Public Affairs

80

- Non-career Senior Executive Service positions

- Counselors for Health Policy, Public Health and Science
- Deputy Assistant Secretaries
- Directors of the CDC, Office of Global Health Affairs
- FDA Commissioner Chief of Staff

80

- Schedule C appointments

- CMS Special Advisor, Confidential Assistant to the Chief of Staff
- CMS, FDA, HRSA Special Assistants
- Chief of Staff to the Deputy Secretary of HHS

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HHS Positions Requiring Senate Confirmation

Position Title

Secretary, Health and Human Services (Confirmed)
Deputy Secretary, Health and Human Services
Assistant Secretary for Financial Resources
Assistant Secretary for Preparedness and Response
General Counsel
Assistant Secretary for Aging and Administration for Community Living
Assistant Secretary for Planning and Evaluation
Assistant Secretary, Health
Surgeon General
Assistant Secretary for Legislation
Assistant Secretary for Children and Families
Commissioner, Administration for Children, Youth, and Families
Commissioner, Administration for Native Americans
Administrator, Centers for Medicare and Medicaid Services (Confirmed)
Commissioner of Food and Drugs
Director, Indian Health Service
Director, National Institutes of Health
Administrator, Substance Abuse and Mental Health Service
Inspector General














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Democratic Leadership is Aging...








Age	70s	 Bernie Sanders (I): 75	 Steny Hoyer: 77	 Nancy Pelosi: 76	 Jim Clyburn: 76	 Dick Durbin: 72
	60s	 Charles Schumer: 66	 Patty Murray: 66	 Elizabeth Warren: 67		
	50s	 Chris Van Hollen: 58	 Tom Perez: 55	 Keith Ellison: 53	 Next Generation	

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Republican Leadership

Age	70s	 Mitch McConnell: 75			
	60s	 John Cornyn: 65	 John Barrasso: 64	 Roy Blunt: 67	 Kevin Brady: 61
	50s	 John Thune: 56	 Kevin McCarthy: 52	 Steve Scalise: 51	 Steve Stivers: 52
	40s	 Paul Ryan: 47		 Cathy McMorris-Rodgers: 47	 Ronna Romney McDaniel: 43
	30s	 Jason Smith: 36			

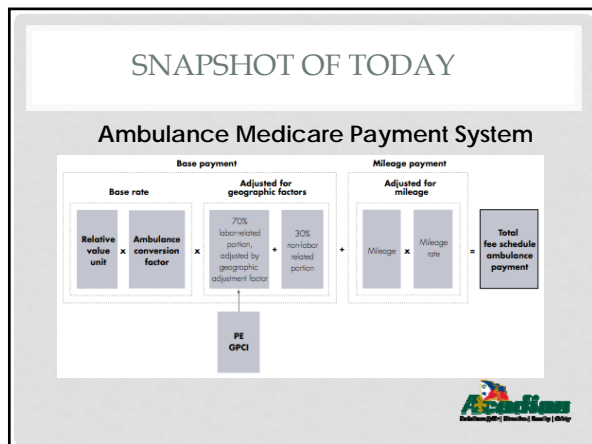
Key Players for 2020: Democrats

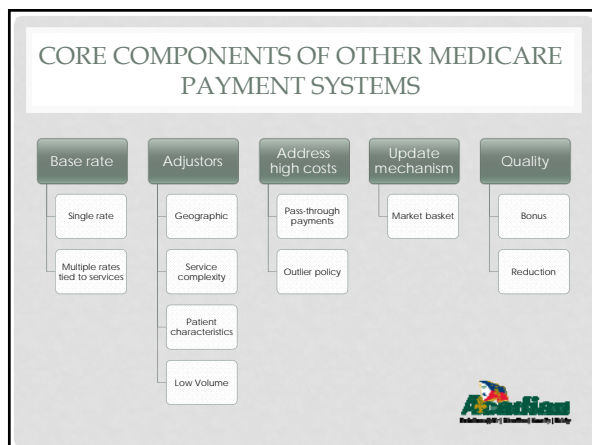
 Hillary Clinton (69)	 New York Governor Andrew Cuomo (59)	 Starbucks CEO Howard Shultz (63)
 U.S. Senator Elizabeth Warren (D-MA) (67)	 U.S. Senator Cory Booker (D-NJ) (47)	 U.S. Senator Kristen Gillibrand (D-NY) (50)
 Former Mayor of NYC Michael Bloomberg (75)		

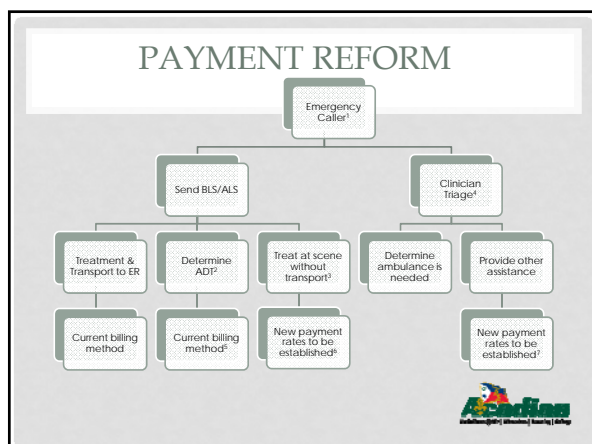


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PAYMENT REFORM FUTURE

Intermediate

- ADT
- Treat & Refer
- Expansion of emergency services
- Non-emergency

Long-term

- MIH Services
- Alignment of clinical & reimbursement



WRAP UP

1. Short-term (first 100 days of 2017)
 - A. Cost Data Collection System
 - B. Supplier to Provider
 - C. Permanent Extenders
2. 2017 and beyond
 - A. Industry alignment imperative
 - B. Solution-oriented reforms







CONTACT INFORMATION

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Speak up!
or
Text to: **817-991-4487**



Next Steps...



Action #1


Strengthen competencies in all professional levels to ensure ability effectively provide the services that the community needs.



ListServ Subscriptions & Assistance


- ✓ NAEMT
- ✓ AIMHI
- ✓ NASEMSO
- ✓ NEMSMA





Action #2

Embrace continuous quality improvement and strive to adopt "pay for performance/value based purchasing" reimbursement linked to clinical outcomes.






Action #3

Utilize all opportunities to advocate how EMS 3.0 supports the healthcare transformation.







EMS 3.0
Transformation
SUMMIT

Action #4

Clearly articulate the types of services that EMS 3.0 can offer to improve patient outcomes and lower costs.






EMS 3.0
Transformation
SUMMIT

Action #5

Integrate all services into a well-coordinated, medically directed and performance-measured EMS 3.0 package of services provided by professionals at basic and advanced levels.





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Transformation
SUMMIT

Act NOW...




EMS 3.0 Transformation Summit
HOSTED BY NAEMT



Speak up!
or
Text to: **817-991-4487**

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