

New Jersey

Using Research to Improve Practice and Policy

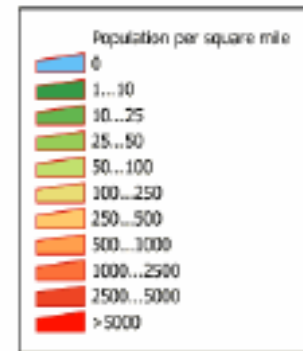
Karen Halupke, RN, M.Ed.
Director, Office of EMS

David Gruber
Senior Assistant Commissioner
NJ Department of Health and Senior Services

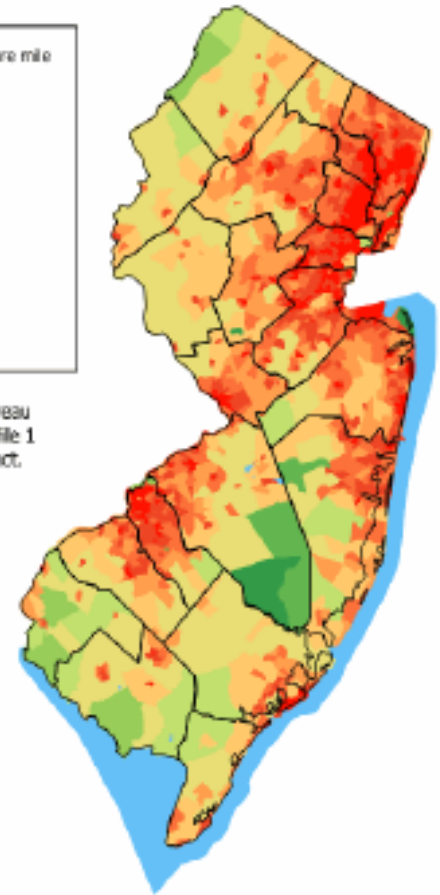


NJ Demographics

- ❑ **7,417.34 square miles**
- ❑ **Population (2008) - 8,682,661**
3.2% increase from 2000
- ❑ **Persons per square mile**
1,174
- ❑ **Most densely populated state**
in the nation



Source: U.S. Census Bureau
Census 2000 Summary file 1
population by census tract.

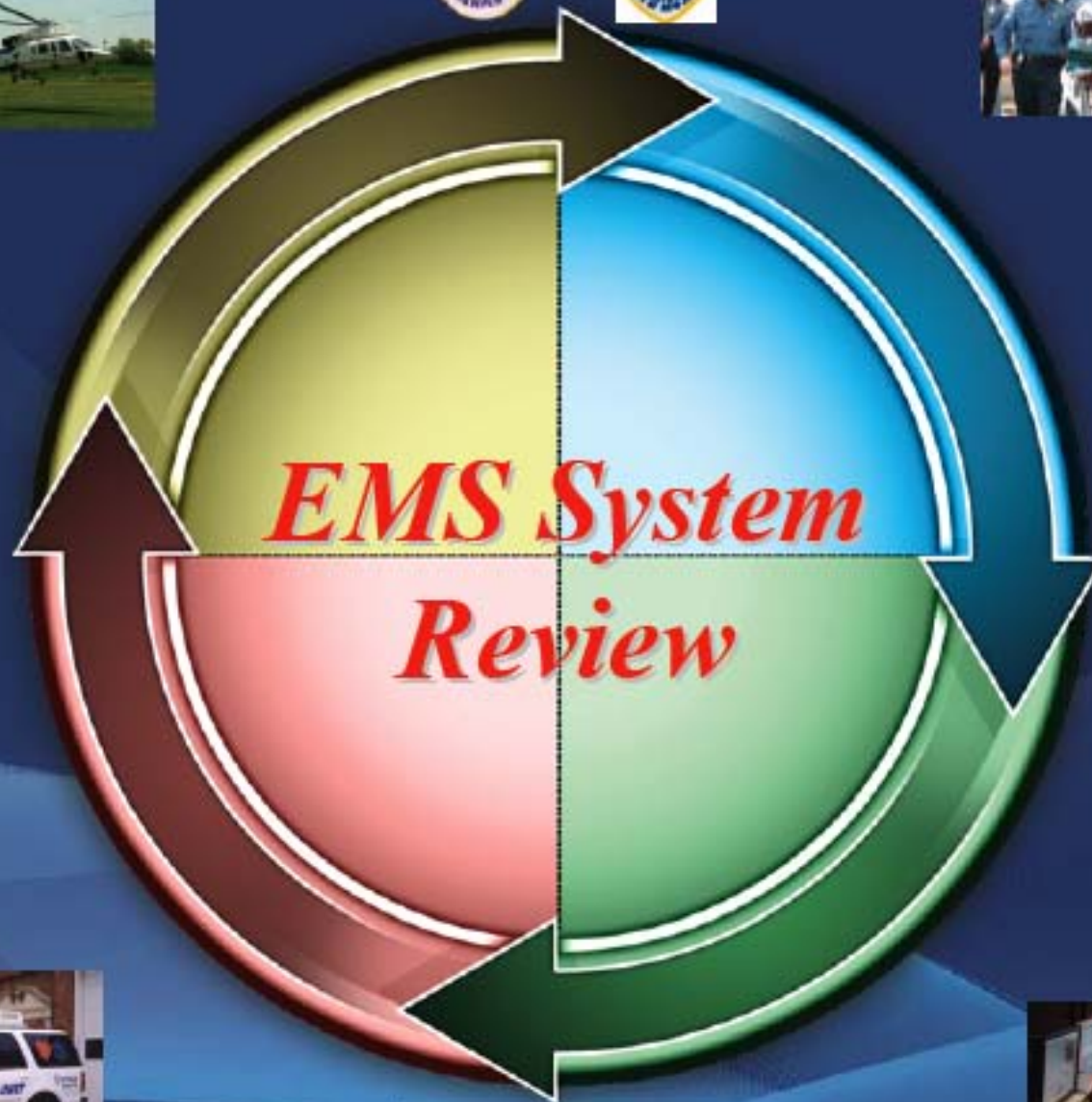


EMS In New Jersey



- **State-wide E-9-1-1**
- **Tiered system**
 - **First Responders**
 - **BLS**
 - **Non-transport ALS (100% Coverage)**
- **375 Volunteer BLS agencies** (approximate)
- **375 Licensed BLS agencies**
- **26,448 Active EMT-Bs** (June 2009)
- **1,695 Active Paramedics** (June 2009)
- **Over 1 million emergency responses per year**





EMS System Review

EMS System Review

January 12, 2006:

***Joint Resolution of Senate and
Assembly Directs Commissioner
to contract with an independent
entity to conduct a study of the
Emergency Medical Services
System in New Jersey***



EMS System Review



The Study includes:

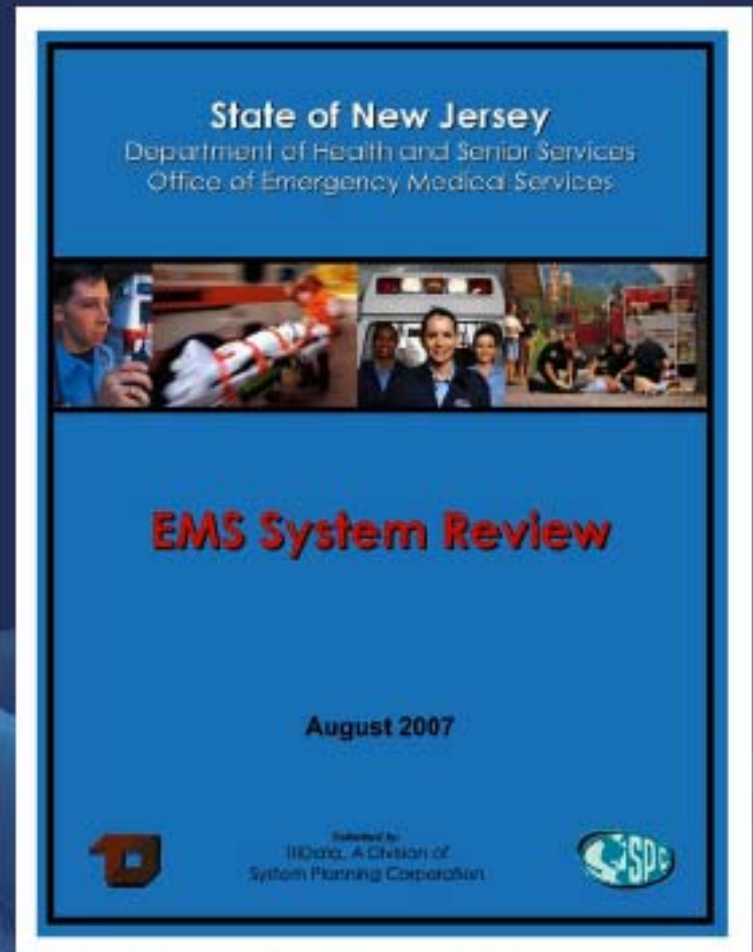
- a. Comprehensive review and assessment of EMS in New Jersey**
- b. Identify emerging issues and problems in delivery of pre-hospital EMS**
- c. Review existing state and federal statutes and regulations**
- d. Evaluate hospital-based model for the provision of ALS**
- e. Review existing NJ EMS Helicopter Response Program**
- f. Review fiscal solvency of ALS system and helicopter response program**
- g. Consider other related issues**
- h. Make recommendations to ensure efficient, responsive quality BLS and ALS services 24 hours a day, 7 days a week, 365 days a year.**
- i. Make recommendations for workforce development to include recruitment and retention strategies.**

EMS System Review

**The Study was completed
in August 2007**

**by
Systems Planning
Corporation
Tri Data Division**

***55 Recommendations
were made***



Recommendation Highlights



Recommendation 2:

The NJ Office of EMS should become a clearing house for EMS research.

Recommendation 3:

The NJ Office of EMS and the MICU Advisory Committee should work with the NJ Attorney General's Office to make legal administrative changes that will facilitate research.

Recommendation Highlights



Major Weaknesses:

- ☐ ***Lack of integrated data that links with outcome data.***
- ☐ ***Few academic institutions with long-term commitment to do EMS research***
- ☐ ***Overly restrictive informed consent interpretations***
- ☐ ***Lack of education and appreciation by EMS personnel of the importance of research***

****** NJ should consider the recommendations of the 2001***

National Research Agenda ***

Recommendation Highlights



Recommendation 26:

The NJ Office of EMS should create a statewide EMS database using the NEMSIS minimum data set.



[illegible]

Recommendation Highlights



Recommendation 28:

All EMS patient care encounters must be documented on an official patient care report.



Personal Data		Medical History		Presenting Problem		Social History	
Gender ☐ Male ☐ Female Age / DOB / / SSN - -	Referral Source ☐ Self ☐ Family ☐ Friend ☐ Other Referral Date / /	Chief Complaint History of Present Illness Review of Systems 	Current Medications Previous Medical History Surgical History 	Family History Personal History 	Current Problem Physical Examination 	Diagnosis Plan 	Signature Date
Insurance Information Insurance Company Policy Number Insurance Type 		Referral Source ☐ Self ☐ Family ☐ Friend ☐ Other Referral Date / /		Chief Complaint History of Present Illness Review of Systems 		Current Medications Previous Medical History Surgical History 	
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Recommendation Highlights



Recommendation 37:

Apply the following six principles for upgrading the state EMS information system:

- 1. Develop a statewide data set based on NEMSIS guidelines (national dataset).***
- 2. Develop a mandatory statewide patient care report***
- 3. Develop a statewide electronic patient care report (ePCR)***
- 4. Populate the ePCR with appropriate dispatch information.***
- 5. No exemptions for volunteer agencies***
- 6. Emergency Departments should ensure patient run report integration into patient care records.***

The Pilot Program

In April 2006 a pilot program utilizing EMS Charts was initiated consisting of 3 Advanced Life Support (ALS) agencies



Funding for the program is provided by various federal grants including NHTSA 408 funding, Medprep, and ASPR funding.

Milestones

April 2007 – 37 EMS agencies in 10 counties using EMS Charts

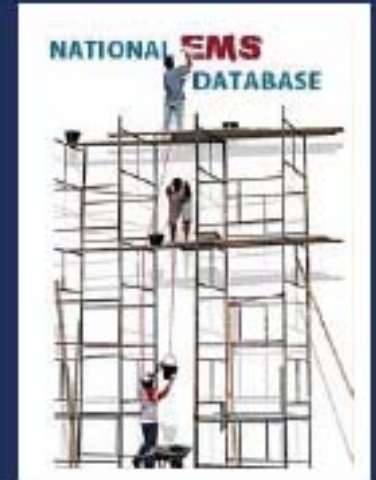
May 2008 – Rollout to all ALS agencies statewide

October 2008 – Rollout to all BLS agencies statewide

June 2009 – 370 EMS services registered for the program
(Representing half of the total EMS agencies in New Jersey)



Data Warehouse



***In May 2009, New Jersey became one of
first few states submitting data to
NEMSiS.***



Program Statistics

2006

70,184 electronic patient care report entries into the State Data Warehouse.

2007

130,000 electronic patient care report entries into the State Data Warehouse.

2008

170,000 electronic patient care report entries into the State Data Warehouse.

2009

300,000 electronic patient care reports entries anticipated for the year.

New Jersey currently has over a half million electronic patient care records in the NJ Data Warehouse to date.



Performance Measures & Goals:

Performance Measure	Benchmark	2006	2007	2008	2009
Percentage of ALS agencies collecting electronic patient care data	0	14%	24%	88%	100%
Percentage of BLS agencies collecting electronic patient care data	0	2%	20%	35%	50%

The Future...

***The Department will require,
by regulation, that all
licensed EMS services utilize
electronic Patient Care
Reporting (ePCR)***



Emergency

The Future...

2009-2010:

***Comprehensive EMS
Legislation to address
study recommendations.***





Contact:

**New Jersey Department of Health and Senior
Services**

**Office of Emergency Medical Services
(609) 633-7777**

www.State.NJ.US/Health/EMS

