

Background – EpiCenter™

- Secure online system collecting emergency department (ED) registration data in real-time
- Developed by Health Monitoring Systems, Inc. (HMS)
- 97% of NJ ED facilities (78 out of 80) online
- Monitors key words in chief complaint field
- Ongoing statistical analyses
 Detects anomalies
 - Triggers notifications
- Used for both communicable & noncommunicable syndromic surveillance

• Real-time data for all ED visits

- Minimal work for reporting facilities day-to-day
- Multiple analysis options
 Charts, graphs, and mapping
- Alert e-mails
- Download capabilities
- Custom classifier development
- Anomalies can be filtered by region, time, classifier, home or facility location



















Additional Events Detected through EpiCenter Surveillance

Chemical exposures

- two children sickened by acute chlorine exposure in an apartment complex pool
- Occupational injuries, illnesses, & poisonings
 - exposure to toluene vapor at a nail polish manufacturing plant
 - six cases of pesticide exposure at a produce repacking facility
 - carbon monoxide poisoning of two police officers due to exhaust problems in their vehicle



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4