EMS SYSTEM IN LITHUANIA

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EMS SYSTEM IN LITHUANIA

- Territory of Lithuania – 65,300 km²
- Population – 2,904,922
- 24/7 - 210-215 units are on duty
- There are 8 Emergency Dispatch Centers in Lithuania
- In 2016 year about 700,000 ambulance response;
EMERGENCY NUMBERS

- Ambulance: 033
- Emergency: 112
112 (0.9 mln calls/year)

Old police and fire and rescue numbers

112
112 SMS
112 App

Old EMS numbers
033(1 mln calls/year)

1. VoIP
2. CAD - core of calltaking and unit dispatching
4. RadioNET – TETRA, NEXEDGE DB, LDS, PC, Radio network, Radios, Car computer
5. Orientae - StreetView, Ortophoto, AKIS, unit coverage area, unit history, (forecast)
6. “Colibri” TSMA - statistics module
Structure of Dispatch center

1. VoIP

2. CAD - core of calltaking and unit dispatching

   www.emergencydispatch.org/articles/whatis.html

4. RadioNET - TETRA, NEXEDGE DB, LDS, PC, Radio network, Radios, Car computer

5. Orientae - StreetView, Ortophoto, AKIS, unit coverage area, unit history, (forecast)

6. “Colibri” TSMA - statistics module

7. DMR - Tab - electronic medical 110a form with recommendation module in cases of coronary syndrome, stroke and polytrauma
Types of units

- 48 ambulance stations in Lithuania (Public institutions, established by Municipality);
- 1 unit for 16000 habitants in rural area;
- 1 unit for 18000 habitants in urban area;
- Types of units: BLS (Paramedic+Paramedic/Driver) and ALS (Nurse/Doctor + Paramedic/Driver). 90 % in Lithuania - ALS type with Nurse+Paramedic/Driver crew;
- Response time according law – 15 min in urban and 25 min in rural area for 1st category call (approx. 84 % in urban area and 80% in rural area for today);
- No helicopter support in EMS system (except emergency offshore – coastguard and transplantology – Air Force helicopters);
Succesful CPR Kaunas ambulance

**ATGAIVINTŲ PACIENTŲ SKAIČIUS 2006 - 2016 M.**

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Problems in LTU Ambulance system

1. Full decentralization (48 independent ambulance stations);
2. 8 Dispatch centers (planing 4 DC at the end of 2017);
3. Absence of Call taking algorithms standart on national level;
4. Using medical equipment on RT on RP on RW problem;
Trauma patients

- 2016 - 3289 car accidents (2015 -3033, 2014-3185) in Lithuania;
- 189 dead – 53 (21.9%) less than in 2015 (241 in 2015, 267 in 2014);
- 3880 injured (3801 in 2015, 3785 in 2014);
- Our main target group – 3880 injured;
Trauma patients

- Trauma centers network established (Level 1 Trauma centers Vilnius, Kaunas and Klaipeda University hospitals);
- Trauma team in Trauma centers;
- Communication from EMS unit – to ER;
- Patient arrival to Trauma centers – approx. 49 min (from call to emergency room);
Trauma patients – problems on EMS stage

• Inequality of medical care quality in different EMS (mortality rate in transportation stage distributes from 0.2% to 2.2%);

• Last well-budgeted trauma care programs aimed to improve trauma care provision were launched by Ministry of Health of Lithuania in 2012 (ALS, ATLS, ACLS etc.);

• Lack of development and integration of standard operative protocols, care pathways and clinical guidelines on national level;

• No central management or trauma governance-specific structure for the existing trauma service in the country;
Trauma patients – five critical areas for further development

1. The establishment of a formal National Trauma Network (Trauma research and Audit Network);
2. Use Information systems services (ISS) in all trauma centers to simplify and assessments of their performance;
3. Use of standardized death rates for comparison purposes;
4. Systematic continuous trauma life support education and training for the health care specialist nationwide;
5. Structural changes in EMS system – less DC, Ambulance stations centralization, etc.
THANK YOU FOR YOUR ATTENTION

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