

Perspective from Norway

Ronald Rolfsen

Adviser
Oslo university hospital, Pre-hospital division / Ambulance department

Geir Vidhammer Engely

Asst. Section leader/Paramedic

Oslo university hospital, Pre-hospital division / Ambulance department

Norwegian Public Roads Administration Motor Vehicle and Driving License Inspectorate Liv Bråmark

Coordinator, Ambulance group

Stein Erichsrud Senior Engineer

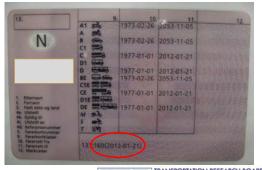
TRANSPORTATION RESEARCH BOARD OF THE NATIONAL ACADEMIES

The Norwegian ambulance service

- · Part of the specialist health service
- · A public service
- A mix between public operated services and contractors
- Minimum competence: EMT (4 years education)
- In cities / bigger services, Paramedic on emergency ambulances (EMT + 2 year practice + 1 ½ (2 ½) year at a university college)
- · All crew need a special driver licence
- A tradition to use smaller vehicles than USA and



Driver licence



TRANSPORTATION RESEARCH BOARD

Principles when purchasing ambulances

- · Must fulfill all laws and regulations
- EN 1789 standard as a minimum
- Special requirements from our service:
 - Better internal lights (White halogen)
 - Reduced noise level (65dB A at 60 km/t and 70dB A at 120 km/t)
 - Focus on securing people and equipment
 - Focus on hygiene / easy to keep clean
- The attendant should reach all basic equipment, communication, light and climate controls without releasing the safety belt.

TRANSPORTATION RESEARCH BOARD

Basic layout MB Sprinter ambulance







TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

Basic layout MB Sprinter ambulance





TRANSPORTATION RESEARCH BOARD















"Together for your safety"



Ambulance investigation

- Accidents involving an ambulance with injury or death
- Accidents involving an ambulance with major damage to property
- Accidents where equipment inside the ambulance cause injury / danger of injury





"Together for your safety"



National analysis group

- Started January 2009
- 8 accidents has been investigated Findings:
- Overload problems
 - axel failure
 - Tire and rims failure
- Inadequate securing of the patient and equipment
- · Driver error















"Together for your safety"



Summary

- Safety of the patient and the crew are an important issue
- The use of shoulder straps on a stretcher are mandatory (unless a medical reason)
- The national analysis group can implement reactions against employees and suppliers.
- Can we improve? Yes We Can! (and will)



