Overview of Truck Accidents in Japan

(Current materials concerning truck accidents)
Accident type of truck driver


*Object truck model: 12ton < GVW
* Except 3rd concerned truck in pile up accidents.
Collision part of truck


*Vehicle to vehicle collision except 3rd concerned truck in pile up accidents.
*Object truck model: 12ton < GVW
Injury region and contact point

The number of fatal injury

Fatal Injury
N=174

The number of serious injury

Serious Injury
N=620


*Hear-on and Rear-end collision accidents
Effect of wearing seatbelt


*Hear-on and Rear-end collision accidents
In-depth data

- JAMA investigated HGV rollover accidents by using the in-depth data of Japan highway Safety Center (JHS).
- JHS collects a HGV accidents around the Toumei-highway.
Truck rollover accidents

- The rollover accident occurs also in Japan.
  - No injury: 47%  Injury (almost slight injury): 31%
- Therefore, serious rollover accident is few in Japan.
- 90-rollover is 87% of all rollover accident. 180-rollover is only 4%.

![Pie chart showing rollover statistics]

- Unknown: 22%
- Injury: 31%
- No injury: 47%
- 180-rollover: 4%
- Other: 9%
- 90-rollover: 87%
Deformation mode of 90 rollover

- Little deformation: 34% (Front guard frame or van body greatly contributed to the restraint of the cab deformation).
- Most many deformation: C-type (21%), these thinks 90-rollover with subsequent impact.

<table>
<thead>
<tr>
<th>Type</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Little deformation</td>
<td>34%</td>
</tr>
<tr>
<td>A type</td>
<td>2%</td>
</tr>
<tr>
<td>B type</td>
<td>10%</td>
</tr>
<tr>
<td>C type</td>
<td>21%</td>
</tr>
<tr>
<td>D type</td>
<td>6%</td>
</tr>
<tr>
<td>Difficult to determine</td>
<td>27%</td>
</tr>
</tbody>
</table>

HGV: 48
Summary

- Most important cases of the truck crew's injury.
  - Frontal accident
    1) Rear-end (front / rear)
    2) Head-on (front / front)

- Rollover accidents are few in serious injuries of truck drivers.
Thank you !