GIDAS Accident Analysis
Scope

• Accidents between 1999 and 2008
• Children up to 12 YO
• Car occupants
• Accident with
  – car,
  – object
  – lorry
• Multiple impacts included
• Only correctly restrained children
GIDAS Sampling Method

- **Area**
  - Hannover and surrounding area
  - Dresden and surrounding area
- **2 shifts every day**
- **Minimum severity level guaranteed**
  - Inclusion of accidents with at least one person injured from the accident
- **Representative of German accidents**
- **Approx. 1% of German accidents**
Distribution of age

[Bar chart showing the distribution of age groups (0-12 years) with categories: 0 YO, 1-2 YO, 3-4 YO, 5-6 YO, 7-9 YO, 10-12 YO. Each bar is divided into sections for those not injured, MAIS 1-2, and MAIS 3+.]

- 0 YO: 1 not injured, 33 MAIS 1-2, 1 MAIS 3+
- 1-2 YO: 1 not injured, 20 MAIS 1-2, 1 MAIS 3+
- 3-4 YO: 2 not injured, 50 MAIS 1-2, 2 MAIS 3+
- 5-6 YO: 1 not injured, 81 MAIS 1-2, 1 MAIS 3+
- 7-9 YO: 2 not injured, 110 MAIS 1-2, 2 MAIS 3+
- 10-12 YO: 1 not injured, 110 MAIS 1-2, 1 MAIS 3+]
Distribution of impact direction

- **Front**
  - Uninjured: 224
  - MAIS 1 - 2: 188
  - MAIS 3+: 4

- **Rear**
  - Uninjured: 129
  - MAIS 1 - 2: 97
  - MAIS 3+: 2

- **Near Side**
  - Uninjured: 52
  - MAIS 1 - 2: 50
  - MAIS 3+: 2

- **Far Side**
  - Uninjured: 65
  - MAIS 1 - 2: 80
  - MAIS 3+: 0
Distribution of delta-v frontal

- DV <10: 0 uninjured, 25 MAIS 1 - 2, 0 MAIS 3+
- DV 11 - 20: 0 uninjured, 73 MAIS 1 - 2, 0 MAIS 3+
- DV 21 - 30: 0 uninjured, 48 MAIS 1 - 2, 0 MAIS 3+
- DV 31 - 40: 0 uninjured, 0 MAIS 1 - 2, 27 MAIS 3+
- DV 41 - 50: 2 uninjured, 15 MAIS 1 - 2, 7 MAIS 3+
- DV 51 - 60: 0 uninjured, 0 MAIS 1 - 2, 4 MAIS 3+
- DV > 61: 1 uninjured, 0 MAIS 1 - 2, 4 MAIS 3+