Underreporting of road traffic deaths in Senegal systems

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Global status report on road safety
New one 2023
Sources of road traffic deaths data

Data sources:
- Police records (68%)
- Health facility records (3%)
- Vital registration/death certification (2%)
- Combine sources (23%)
- Other (4%)
- Vital registration data (2%)

Combined sources (23%)
GSRRS: Time interval used for defining a road traffic death

- Died at scene of crash: 7%
- Died within 24 hours of crash: 5%
- Died within 7 days of crash: 5%
- Died within 30 days of crash: 63%
- Died within a year of crash: 13%
- Unlimited time period following crash: 2%
Comparison between Reported and estimated road traffic deaths in Senegal
How WHO has supported countries
Steps suggested to improve the quality of road traffic deaths data in the country

- Knowledge, Attitude and Perception Survey on Quality of Road Safety Data (KAP survey)
- The Bizagi Modeler software solution is suggested
- Each country team should map the different stakeholders in their system
- Mapping the road traffic deaths system in each country
- Link the different sources of data available
Senegal: Mapping road traffic deaths systems
• Capture-recapture method
Supporting countries to improve their data on road traffic deaths (Examples of integrating different sources of data)

Completeness of police, health and firefighters

<table>
<thead>
<tr>
<th>Database</th>
<th>n</th>
<th>Completeness</th>
<th>(95% CI, %)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Police Data</td>
<td>118</td>
<td>14%</td>
<td>(12, 16)</td>
</tr>
<tr>
<td>Health Data</td>
<td>324</td>
<td>38%</td>
<td>(33, 43)</td>
</tr>
<tr>
<td>Firefighters Data</td>
<td>119</td>
<td>14%</td>
<td>(12, 16)</td>
</tr>
<tr>
<td>Total (excluding duplicates)</td>
<td>461</td>
<td>54%</td>
<td>(47, 61)</td>
</tr>
</tbody>
</table>

Venn Diagram Dakar (Senegal)*

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Health

Police

Firefighter
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Comparison between Reported and estimated road traffic deaths in Senegal

The graph shows the comparison between the reported and estimated road traffic deaths in Senegal from 2000 to 2020. The blue dots represent the reported data, the gray dots represent the WHO Estimated data, and the green dots represent the IHME data. The number of road traffic deaths is depicted on the y-axis, while the years 2000 to 2020 are shown on the x-axis. The data indicates a steady increase in road traffic deaths over the years, with the WHO Estimated and IHME data showing slightly higher values than the reported data.
Conclusion

- At least collect data on minimum data sets
- Integrate data from different sectors: health, transport, police and insurance...
- Making effort to improve quality of data (CRVS data coverage and VA)