Vital Statistics in Turkey

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VITAL STATISTICS

- Birth statistics
- Death statistics
- Marriage statistics
- Divorce statistics
Vital Statistics

- Coverage
  - Country-wide

- Data Collection System
  - Administrative registers

- Data sources
  - MERNIS (The Central Civil Registration System)
  - District Population Directorates
Birth Statistics

- Birth Statistics
  - MERNIS (The Central Civil Registration System)
  - Since 2001
  - 90% in first year
  - 95% at the end of second year
  - Completed 5 years
  - Revised retrospectively
  - Announced with press releases yearly
  - CBR, ASFR, TFR, Adolescent fertility rate

- Disadvantages
  - 10% not registered on time
  - Live births of new born infant deaths is missing
Birth Statistics

- Analysing
  - Birth data derived from MERNIS
  - Editing row data
  - Consistency checks between variables
  - Checking the data with previous years
  - Calculation of the fertility indicators
  - Comparing with “population and health surveys” and “population projection results”

- Disadvantages
  - Limited sources
Birth Statistics

- Compiled by date of occurrence and date of registration
- Using date of occurrence in analysis
- Produced by place of residence
  - Province and district

- Tabulated by province level
  (Data related to district level is also available)
Birth Statistics

Variables;

- ID number of infant
- ID number of mother and father
- Usual residence of mother and father
- Date of birth event
- Sex of infant
- Birth date of mother and father
- Educational level of mother and father
  (National education statistics data base)
Birth Statistics

- Missing variables;
  - Mother’s;
    - Working status
    - Demographic information of foreign nationality mother
    - Urban/rural residence
  - Infant’s;
    - Birth order
    - Time of delivery
    - Method of delivery
    - Weight of birth
Death Statistics

- Death Statistics
  - MERNIS (The Central Civil Registration System)
  - Since 2009
  - 90% in first year
  - 95% at the end of second year
  - Completed 5 years
  - Revised retrospectively
  - Announced with press releases yearly
  - CDR, IMR, ASDR, U5MR, Neonatal and post neonatal infant mortality rate

- Disadvantages
  - 10% not registered on time
  - New born infant deaths are missing
Death Statistics

- Death data derived from MERNIS
- Editing row data
- Matching of the MERNIS death data and TurkStat cause of death data
- Missing records in MERNIS death records are completed from TurkStat cause of death records (especially new born infant deaths)
- Consistency checks between variables
- Checking the data with previous years
- Calculation of the mortality indicators
- Comparing with “population and health surveys” and “population projection results”
Death Statistics

- Compiled by date of occurrence and date of registration
- Using date of occurrence in analysis
- Produced by place of residence
  - Province and district
- Tabulated by province level
  (Data related to district level is also available)
Death Statistics

- Variables;
  - Usual residence
  - Sex
  - Date of death event
  - Birth date of deceased
  - Marital status
  - Education status
    (National education statistics data base)
- Missing variables;
  - Working status
  - Urban/rural residence
Marriage and Divorce Statistics

- **Marriage and Divorce Statistics**
  - **MERNIS (The Central Civil Registration System)**
  - Since 2001
  - Announced with press releases yearly
  - CMR, CDR, Average age at marriage, Mean age at first marriage
Marriage and Divorce Statistics

- Marriage and divorce data derived from MERNIS
- Editing row data
- Consistency checks between variables
- Checking the data with previous years
- Calculation of the marriage and divorce indicators
- Compiled by date of occurrence
- Using date of occurrence in analysis
- Produced by place of event (province level)
- In district level;
  - Place of event for marriages
  - Place of residence of male for divorces
    (Because of not available courts in every district)
Marriage and Divorce Statistics

- Tabulated by province level
  (Data related to district level is also available)
- Variables for marriages;
  - ID number
  - Date of birth
  - Date of marriage
  - Nationality
  - Marital status before current marriage
  - Education status
    (National education statistics data base)
- Missing variables;
  - Working status
  - If couples are foreign nationality, they are not included in data
Marriage and Divorce Statistics

- Variables for divorces:
  - ID number
  - Date of birth
  - Date of marriage
  - Cause of divorce
  - Date of final judgement
  - Education status
    (National education statistics data base)

- Missing variables:
  - Working status
  - If couples are foreign nationality, they are not included in data
Vital Statistics

Our targets are to;
- Be registered on time of birth and death events
- Eliminate the lack of coverage on birth and death events
- Obtain information of foreign nationality of mothers in birth statistics
- Produce vital statistics related to urban/rural residence

Ongoing study is to;
- Establish birth notification system
Vital Statistics

- Vital statistics are presented to users as:
  - Press releases yearly
  - Electronic files
  - Web sites
    - [http://www.turkstat.gov.tr](http://www.turkstat.gov.tr)
  - Statistics tables
  - Data base
Vital Statistics

Basic fertility and mortality indicators

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Total fertility rate</td>
<td>2.38</td>
<td>2.17</td>
<td>2.09</td>
<td>2.11</td>
<td>2.12</td>
<td>2.12</td>
<td>2.16</td>
<td>2.15</td>
<td>2.10</td>
<td>2.08</td>
<td>2.04</td>
<td>2.11</td>
<td>2.10</td>
<td>2.17</td>
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<tr>
<td>(Number of children)</td>
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<td></td>
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<td></td>
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</tr>
<tr>
<td>Crude birth rate (%)</td>
<td>20.3</td>
<td>18.6</td>
<td>17.9</td>
<td>18.1</td>
<td>18.2</td>
<td>18.1</td>
<td>18.4</td>
<td>18.2</td>
<td>17.6</td>
<td>17.2</td>
<td>16.8</td>
<td>17.2</td>
<td>17.0</td>
<td>17.3</td>
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<tr>
<td>Number of births</td>
<td>1 323 341</td>
<td>1 229 555</td>
<td>1 198 927</td>
<td>1 222 484</td>
<td>1 244 041</td>
<td>1 255 432</td>
<td>1 289 992</td>
<td>1 295 511</td>
<td>1 266 751</td>
<td>1 259 877</td>
<td>1 247 081</td>
<td>1 290 387</td>
<td>1 291 217</td>
<td>1 337 504</td>
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<tr>
<td>Mean age of mother</td>
<td>26.2</td>
<td>26.3</td>
<td>26.5</td>
<td>26.5</td>
<td>26.5</td>
<td>26.6</td>
<td>26.7</td>
<td>26.8</td>
<td>26.9</td>
<td>27.2</td>
<td>27.3</td>
<td>27.5</td>
<td>27.7</td>
<td>27.9</td>
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<tr>
<td>Crude death rate (%)</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>5.1</td>
<td>5.0</td>
<td>5.1</td>
<td>5.0</td>
<td>4.9</td>
<td>5.1</td>
</tr>
<tr>
<td>Number of deaths</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>369 703</td>
<td>366 471</td>
<td>376 162</td>
<td>376 338</td>
<td>372 686</td>
<td>390 121</td>
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<tr>
<td>Infant mortality rate (%)</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>13.9</td>
<td>12.0</td>
<td>11.7</td>
<td>11.6</td>
<td>10.8</td>
<td>11.1</td>
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<tr>
<td>Number of infant deaths</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>17 607</td>
<td>15 164</td>
<td>14 567</td>
<td>14 955</td>
<td>13 993</td>
<td>14 821</td>
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</table>
## Vital Statistics

### Crude marriage and divorce rate

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of marriages</th>
<th>Crude marriage rate (‰)</th>
<th>Number of divorces</th>
<th>Crude divorce rate (‰)</th>
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<tbody>
<tr>
<td>2001</td>
<td>544 322</td>
<td>8,36</td>
<td>91 994</td>
<td>1,41</td>
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<td>2002</td>
<td>510 155</td>
<td>7,73</td>
<td>95 323</td>
<td>1,44</td>
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<td>2003</td>
<td>565 468</td>
<td>8,46</td>
<td>92 637</td>
<td>1,39</td>
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<tr>
<td>2004</td>
<td>615 357</td>
<td>9,09</td>
<td>91 022</td>
<td>1,34</td>
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<tr>
<td>2005</td>
<td>641 241</td>
<td>9,35</td>
<td>95 895</td>
<td>1,40</td>
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<tr>
<td>2006</td>
<td>636 121</td>
<td>9,17</td>
<td>93 489</td>
<td>1,35</td>
</tr>
<tr>
<td>2007</td>
<td>638 311</td>
<td>9,09</td>
<td>94 219</td>
<td>1,34</td>
</tr>
<tr>
<td>2008</td>
<td>641 973</td>
<td>9,03</td>
<td>99 663</td>
<td>1,40</td>
</tr>
<tr>
<td>2009</td>
<td>591 742</td>
<td>8,21</td>
<td>114 162</td>
<td>1,58</td>
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<tr>
<td>2010</td>
<td>582 715</td>
<td>7,98</td>
<td>118 568</td>
<td>1,62</td>
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<tr>
<td>2011</td>
<td>592 775</td>
<td>8,02</td>
<td>120 117</td>
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<td>2012</td>
<td>603 751</td>
<td>8,03</td>
<td>123 325</td>
<td>1,64</td>
</tr>
<tr>
<td>2013</td>
<td>600 138</td>
<td>7,89</td>
<td>125 305</td>
<td>1,65</td>
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<td>2014</td>
<td>599 704</td>
<td>7,80</td>
<td>130 913</td>
<td>1,70</td>
</tr>
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</table>
Thank you for your attention

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