

Basic Graphs - Paper 4a

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Data Visualization

First, we download the relevant data sets

Plots

Figure 1: Place of Delivery by Mother's age at birth

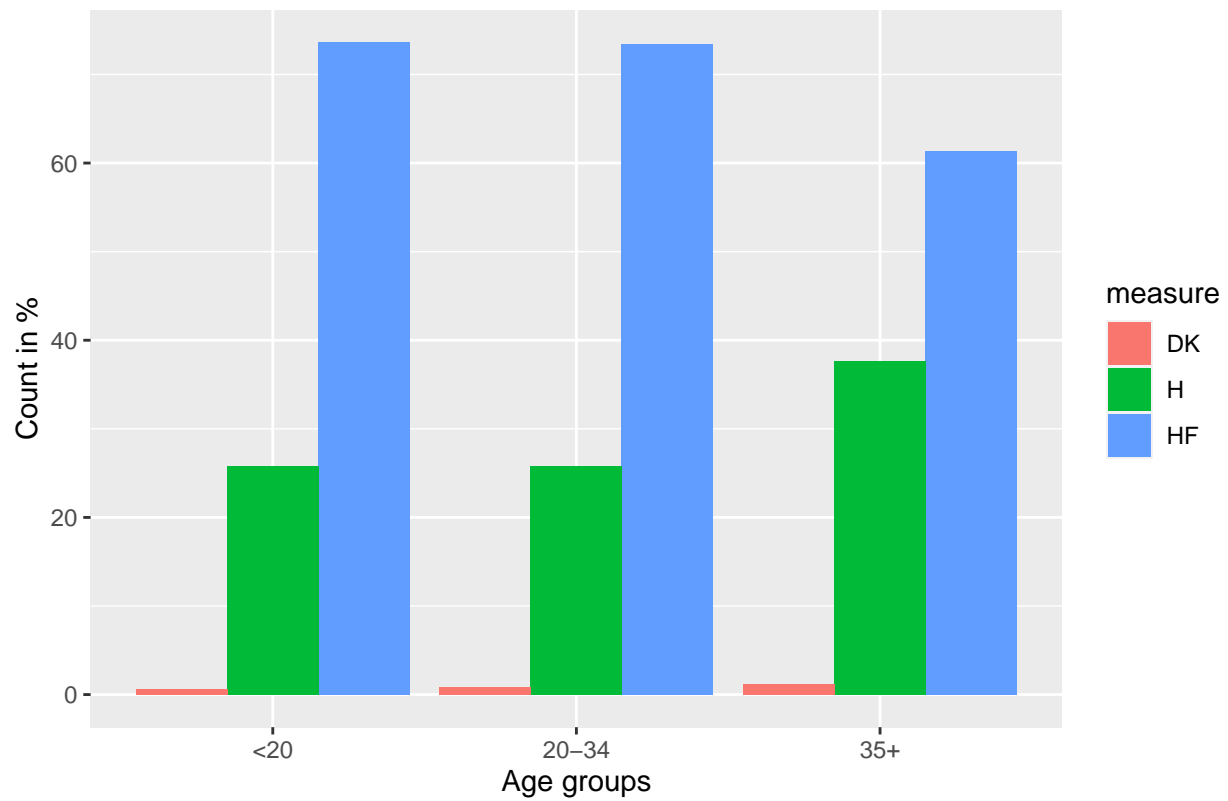


Figure 2: Place of delivery by Child Birth Order

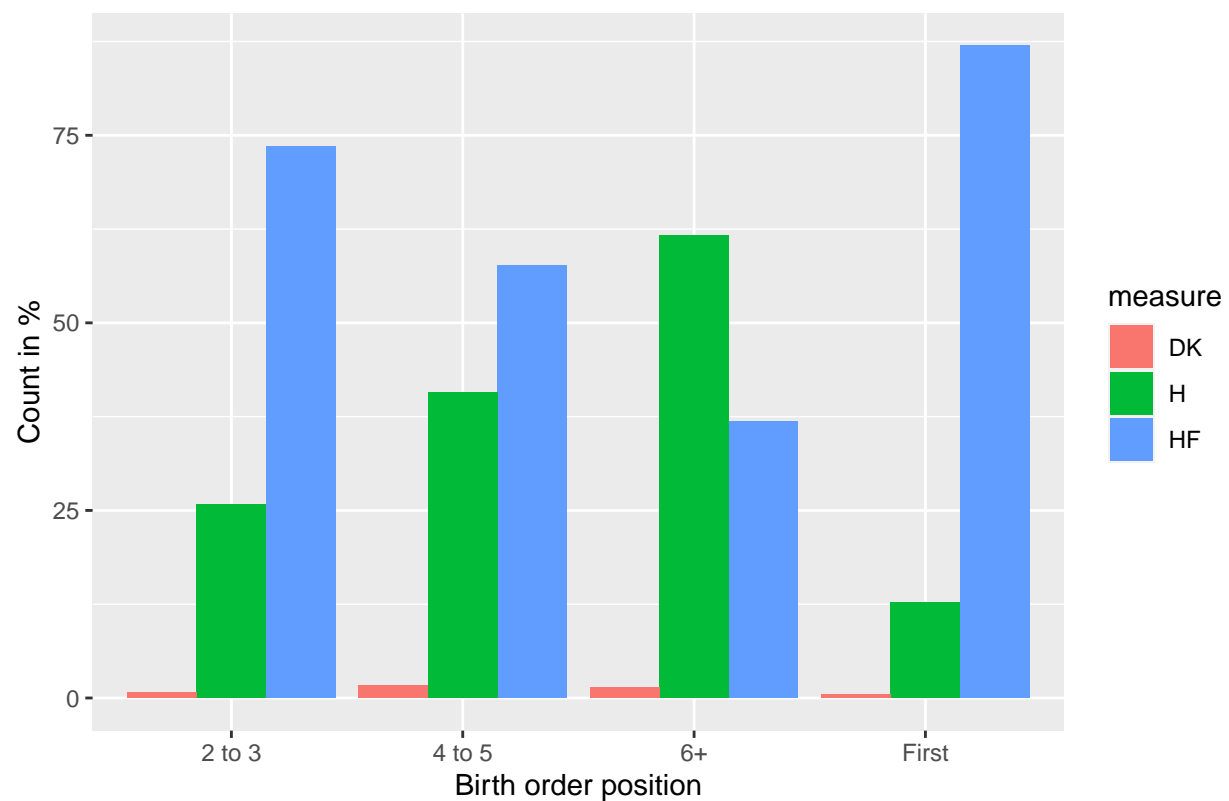


Figure 3: Place of Delivery by Residence

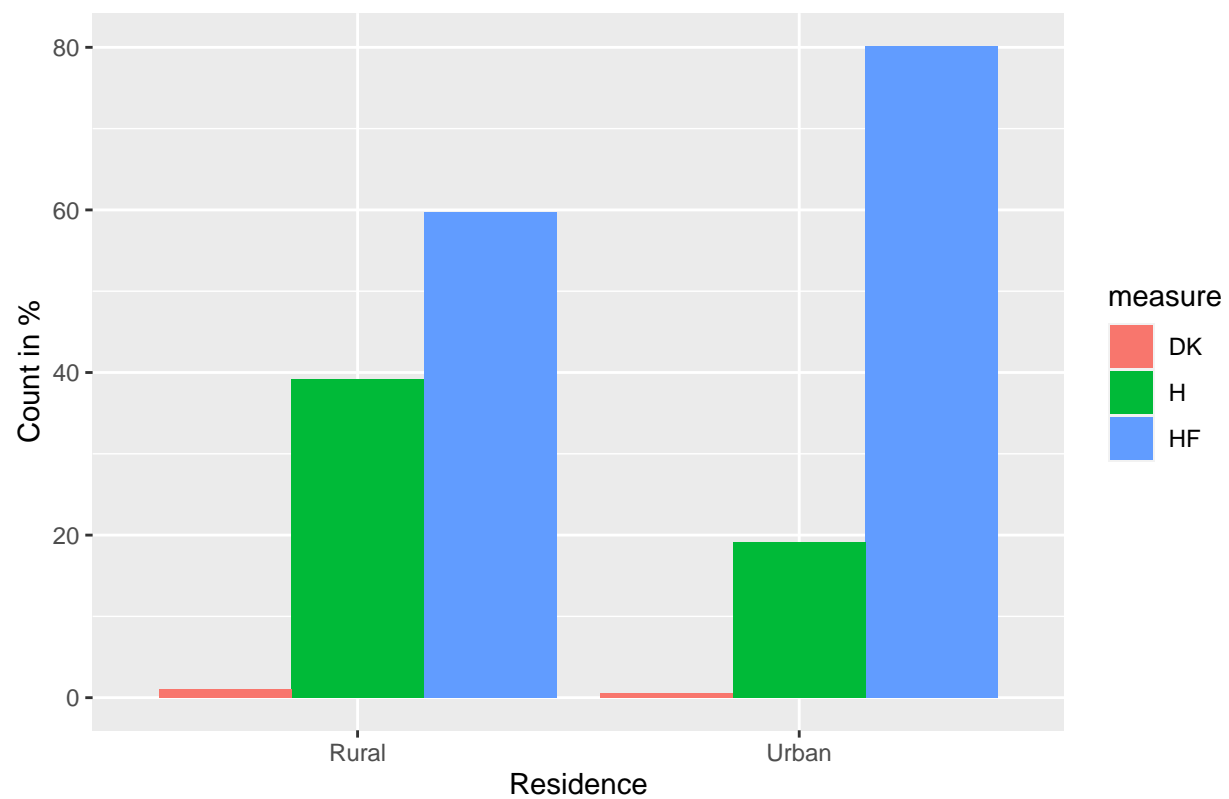


Figure 4: Place of Delivery by Mother's Educational level

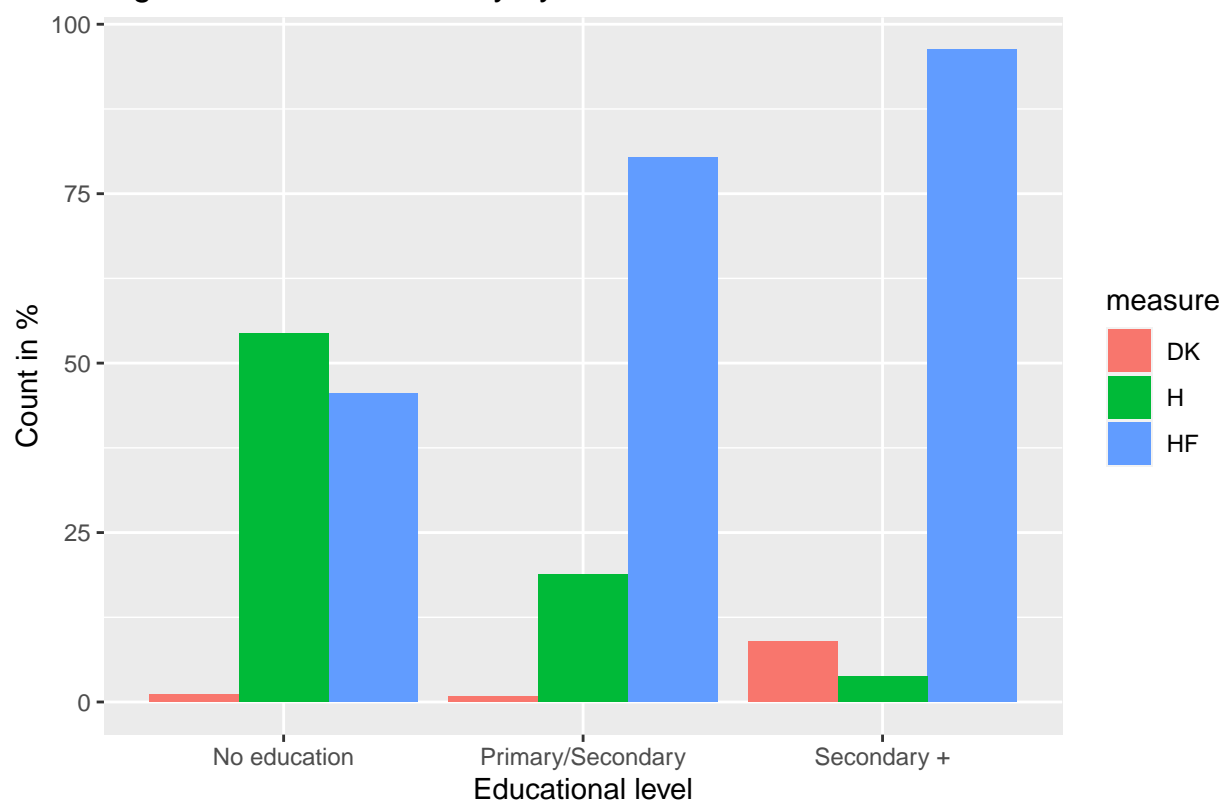


Figure 5: Place of Delivery by Region of Birth

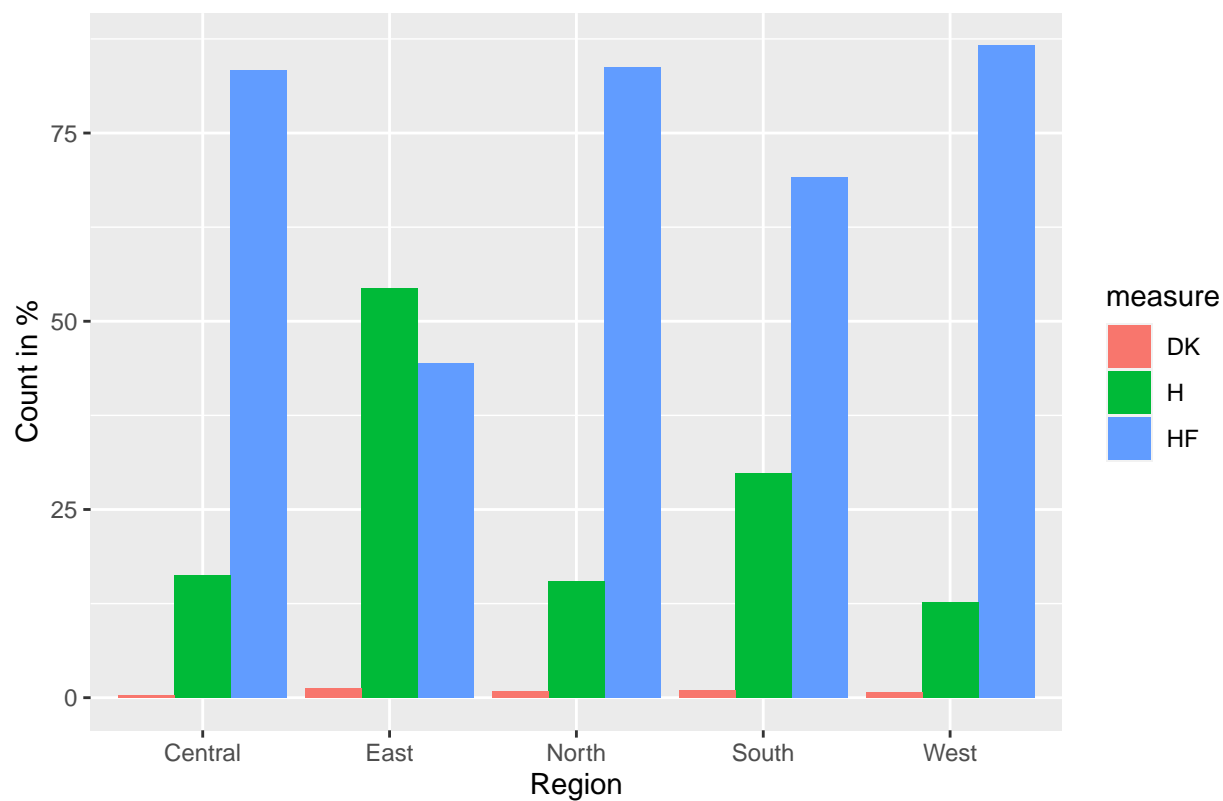
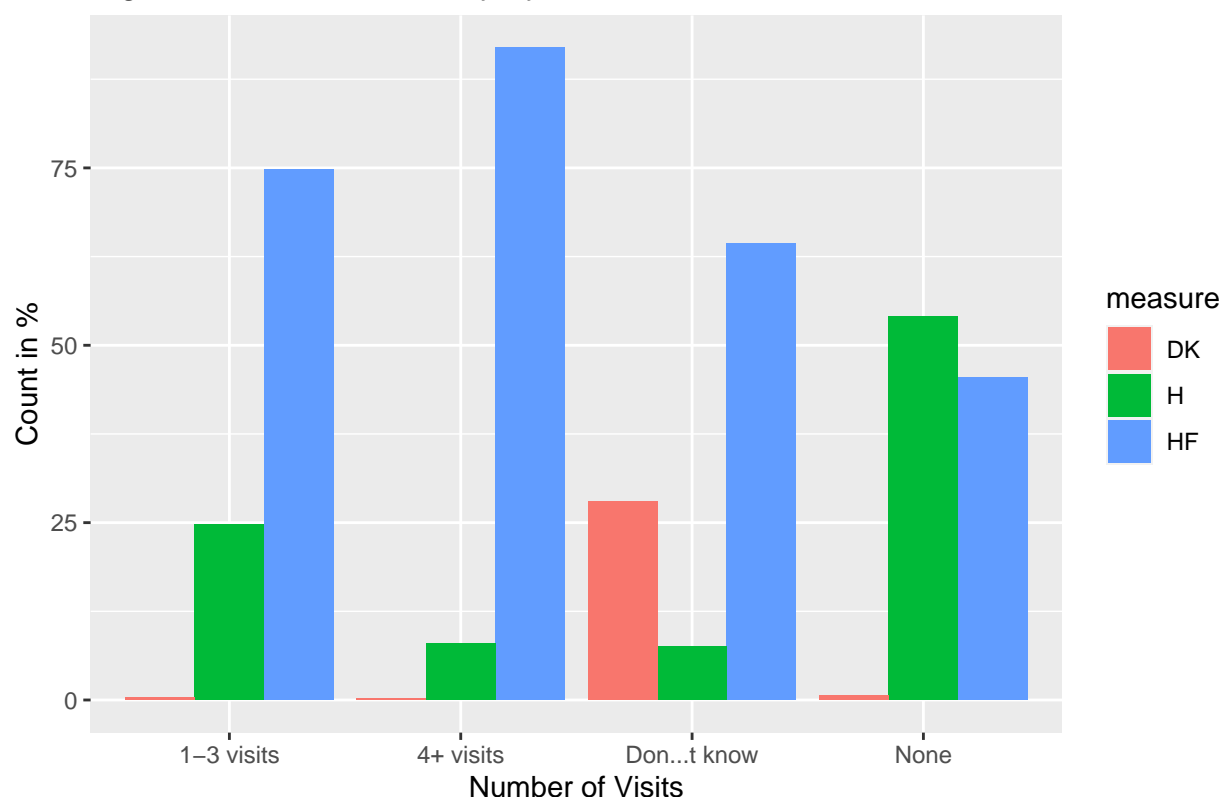


Figure 6: Place of Delivery by Antenatal Care Visits



Data

The data is obtained from the Demographic and Health Surveys (DHS) hosted on the DHS website in PDF formats. We obtained data from the Turkey DHS Final Report from 1998. The report consists of a wide range of data regarding Children health and its indicators such as mortality, nutrition, water supply and education. Further, other supporting indicators data is provided such as mother's health and nutrition and infant vaccination rates. We obtained table 9.4 from the Turkey 1998 DHS Report for our analysis. This table consists of important statistics regarding birth statistics such as mother's age at birth, child birth order, residence of birth, region of birth, mother's educational attainment levels and total number of antenatal care visits during birth. These variables are further classified by the place of delivery of the child - at health facility or at home. In terms of confidentiality, only aggregate levels were used to construct the table and no micro data containing individual patient information has been obtained or utilized. The method of categorization of this data set (ordering by place of delivery) limits us to compare data to other similar reports.

As stated previously, we look at Table 9.4 from the Turkey 1998 DHS Final Report on pages 109-110. We consider all sections of this table - Mother's age at birth, birth order, residence, region, education and Antenatal Care (AC) visits. We look at all the variables and match them with their respective columns regarding the place of delivery. We do so to gain a clear understanding on how hygiene patterns during delivery and proper medical attention affect birth outcomes in children. Table 1 is shown below - @ref(tab:table1).

Table 9.4 Place of delivery

Percent distribution of births in the five years prior to 2000 according to selected background characteristics

| Background characteristic | Place of delivery | |
|------------------------------|----------------------|-------------|
| | At a health facility | At home |
| Mother's age at birth | | |
| < 20 | 73.6 | 25.4 |
| 20-34 | 73.4 | 25.4 |
| 35+ | 61.3 | 37.7 |
| Birth order | | |
| 1 | 86.9 | 12.1 |
| 2-3 | 73.5 | 25.4 |
| 4-5 | 57.6 | 40.4 |
| 6+ | 36.8 | 61.2 |
| Residence | | |
| Urban | 80.2 | 19.8 |
| Rural | 59.7 | 39.3 |
| Region | | |
| West | 86.6 | 12.1 |
| South | 69.2 | 29.8 |
| Central | 83.3 | 16.7 |
| North | 83.7 | 15.3 |
| East | 44.4 | 54.4 |
| Education | | |
| No educ./Pri. incomp. | 44.5 | 54.4 |
| Pri. comp./Sec. incomp. | 80.4 | 18.6 |
| Sec. comp./+ | 96.2 | 3.8 |
| Antenatal care visits | | |
| None | 45.4 | 54.4 |
| 1-3 visits | 74.8 | 24.2 |
| 4+ visits | 91.9 | 7.1 |
| DK/missing | 64.4 | 7.1 |
| Total | 72.5 | 26.5 |

Discussion Point 1