Supplemental Materials

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## 1 Data Source

In the initial months of publication, the reports included more complete information, including labor time or detailed descriptions of surgical procedures. Over time, clinical notes became streamlined. When physicians intervened in birth, the notes included the type of intervention, the indication, and the obstetrician. For more information on this as a source, see my other publications (2).

The journal is held at the Biblioteca Nacional (BN), the Maternidade Escola, Rio de Janeiro (ME-UFRJ), and the Biblioteca de Biomedicina-A, Universidade Estadual do Rio de Janeiro (BBA-UERJ), all in Rio de Janeiro, Brazil. Between January 2012 and July 2013, I manually digitized the journal by photographing each volume. Then, between January and August 2017, I manually input the data into Excel from the digital reproductions. I then converted this into a .csv file for upload into R.

## 2 Study Measures

### 2.1 Maternal Skin Color

The original data categorized maternal racial categories as White (*branca*), the reference group here; mixed-race (*parda*); and Black (*preta*). I maintained this categorization. However, I also created a new dummy variable for skin color, combining Black and Mixed-Race patients into one category, Afro-Descent and all White patients into a Euro-Descent category. Please see the eda-v1.qmd file for more information on the variable manipulation process.

### 2.2 Gestational Status

Gestational status was divided into parity and gravidity. Originally, the data had eight categories: nullipara, primipara, secundipara, multipara; and primigravida, secundigravida, trigravida, and multigravida. I combined categories into four final categories: 1) nullipara and primigravida into nullipara (or any woman who has never given birth to a viable fetus); 2) primipara into primipara (or any woman who has given birth to one viable fetus); 3) secundipara and multipara into multipara (or any woman who has given birth to more than one viable fetus); and 4) secundigravida, trigravida, and multigravida into multigravida (or any woman who has been pregnant more than one but never given birth to a viable fetus).

### 2.3 Maternal Nationality

For maternal nationality, I created categories based on individual country (nationality) and categories based on region (modifiednationality). Recategorization occurred as follows: Brazilian; Latin American (Argentine, Paraguayan, Uruguayan); European (Austrian, French, German, Italian, Polish, Portuguese, Romanian, Russian, Spanish, and Swiss); and Middle Eastern (Syrian).

### 2.4 Clinical Outcomes

The clinical notes upon which I based this dataset only sporadically included infant demographic information for spontaneous abortions or stillbirths. For spontaneous abortions, stillbirths, and live births, I recorded, when available, infant sex, weight, length. I followed the original clinical categorizations for type of delivery in the following cases: natural, indicating minimal medical intervention; interventionist, indicating medium medical intervention through the use of forceps; and operatory, indicating a cesarean section or embryotomy. However, I recategorized external manipulations including version and Mauriceau (used during breech deliveries) ((3)), coded as operatory or natural by physicians, as interventionist. I classified clinical outcomes as spontaneous abortion, natural (normal delivery), interventionist (interventionist delivery), and operative (surgical delivery).

## 3 Basic Statistical Analysis

For the basic statistical analysis, I ran three linear models to understand the relationship between maternal factors and infant birth weight. The first model is a simple linear regression with outcome variable (birthweight in grams) and exposure variable maternal ancestry (Euro-descent or Afro-descent).

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| Table 1: Table 2   | **Characteristic** | **Beta** | **SE**1 | **Statistic** | **95% CI**1 | **p-value** | | --- | --- | --- | --- | --- | --- | | (Intercept) | 3,171 | 17.7 | 179 | 3,137, 3,206 | <0.001 | | ModifiedColor\_Afro.Descent | -88 | 23.1 | -3.79 | -133, -42 | <0.001 | | R² | 0.007 |  |  |  |  | | Adjusted R² | 0.007 |  |  |  |  | | No. Obs. | 1,944 |  |  |  |  | | 1 SE = Standard Error, CI = Confidence Interval | | | | | | |

The second simple bivariate linear analysis, looks at infant birth weight as a function of maternal age.

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| Table 2: Table 3   | **Characteristic** | **Beta** | **SE**1 | **Statistic** | **95% CI**1 | **p-value** | | --- | --- | --- | --- | --- | --- | | (Intercept) | 2,944 | 52.0 | 56.6 | 2,842, 3,046 | <0.001 | | Age | 7.0 | 2.01 | 3.46 | 3.0, 11 | <0.001 | | R² | 0.006 |  |  |  |  | | Adjusted R² | 0.006 |  |  |  |  | | No. Obs. | 1,944 |  |  |  |  | | 1 SE = Standard Error, CI = Confidence Interval | | | | | | |

The third and final exploratory statistical model is a multilinear regression, looking at the relationship of maternal skin color, age, nationality, and gestational status on infant birth weight.

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| Table 3: Table 4   | **Characteristic** | **Beta** | **SE**1 | **Statistic** | **95% CI**1 | **p-value** | | --- | --- | --- | --- | --- | --- | | (Intercept) | 3,172 | 71.4 | 44.4 | 3,032, 3,312 | <0.001 | | ModifiedColor |  |  |  |  |  | | Euro-Descent | — | — | — | — |  | | Afro-Descent | -82 | 27.1 | -3.01 | -135, -29 | 0.003 | | Age | 0.32 | 2.30 | 0.139 | -4.2, 4.8 | 0.9 | | ModifiedStatus |  |  |  |  |  | | Multigravida | — | — | — | — |  | | Multipara | 80 | 30.7 | 2.59 | 19, 140 | 0.010 | | Nullipara | -79 | 30.0 | -2.63 | -138, -20 | 0.009 | | Primipara | -20 | 76.5 | -0.263 | -170, 130 | 0.8 | | ModifiedNationality |  |  |  |  |  | | European | — | — | — | — |  | | Latin American | 86 | 169 | 0.512 | -244, 417 | 0.6 | | Middle Eastern | 498 | 499 | 0.998 | -481, 1,478 | 0.3 | | Brazilian | -13 | 36.6 | -0.347 | -84, 59 | 0.7 | | R² | 0.027 |  |  |  |  | | Adjusted R² | 0.023 |  |  |  |  | | No. Obs. | 1,944 |  |  |  |  | | 1 SE = Standard Error, CI = Confidence Interval | | | | | | |

In the first and third models, there appears to be an association between maternal skin color and infant birth weight, with Euro-descended women (the reference group) having infants with higher birth weights than Afro-descended women. In the second model, older mothers are associated with giving birth to infants with higher birth weights.

For all three models, the r-squared is very small (0.0073, 0.0061, and 0.027), indicating that the model does not explain much of the variance in birth weight. This is likely due to the fact that birth weight is a complex trait influenced by many factors, including genetic, environmental, and social factors.

1. Roth C. A Miscarriage of Justice: Women’s Reproductive Lives and the Law in Early Twentieth-Century Brazil. Stanford, CA: Stanford University Press; 2020.

2. Roth C. ’Violência obstétrica’ na Maternidade de Laranjeiras: fontes para pesquisas futuras. In: Teixeira LA, Rodrgues AP, Nucci MF, Silva FL, editors. Medicalização do parto: saberes e práticas. São Paulo: Hucitec Editora; 2020. p. 211–36.

3. Eyraud JL, Riethmuller D, Clainquart N, Schaal JP, Maillet R, Colette C. [Is the Mauriceau maneuver deleterious? Study of 103 cases](https://www.ncbi.nlm.nih.gov/pubmed/9265067). Journal De Gynecologie, Obstetrique Et Biologie De La Reproduction. 1997;26(4):413–7.