Case Study 1

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Case Discussion

- Data obtained from a subset of women enrolled in the CPP during pregnancy
- Data issues: uncertainty, inflation, and missingness

Goal: Assess how exposure to DDE and PCBs relates to the risk of premature delivery

Graph?

Exploratory Data Analysis

Analysis

- ▶ Keep obs with Gest. Age 44 or less
- ▶ Categorize Gest. Age to assess risks of pre-term births of varying severity
- ▶ Impute score data with MICE
- ▶ Remove obs with missing PCE, DDE

	2.5 %	97.5 %
center15	-2.3928007	-1.0027265
center31	-1.3723401	0.3501201
center37	-2.2004056	-0.8891897
center45	-1.6307711	-0.2173480
center5	-1.1686918	0.1024897
center50	-1.5584708	-0.0776787
center55	-1.9905098	-0.5531251
center60	-1.8140746	-0.3106809
center66	-1.6273146	-0.3483217
center71	-1.3632321	0.0923675
center82	-2.2808274	-0.8909285

Results

Discussion