Pregnancy status and EHR's

Pregnancy in US overview

- 6M pregnancies a year
    - 1M Sp Ab's
    - 1M induced Ab's

    - 4M births

Spont AB's

- The 1M number does not account for "chemical pregnancies"
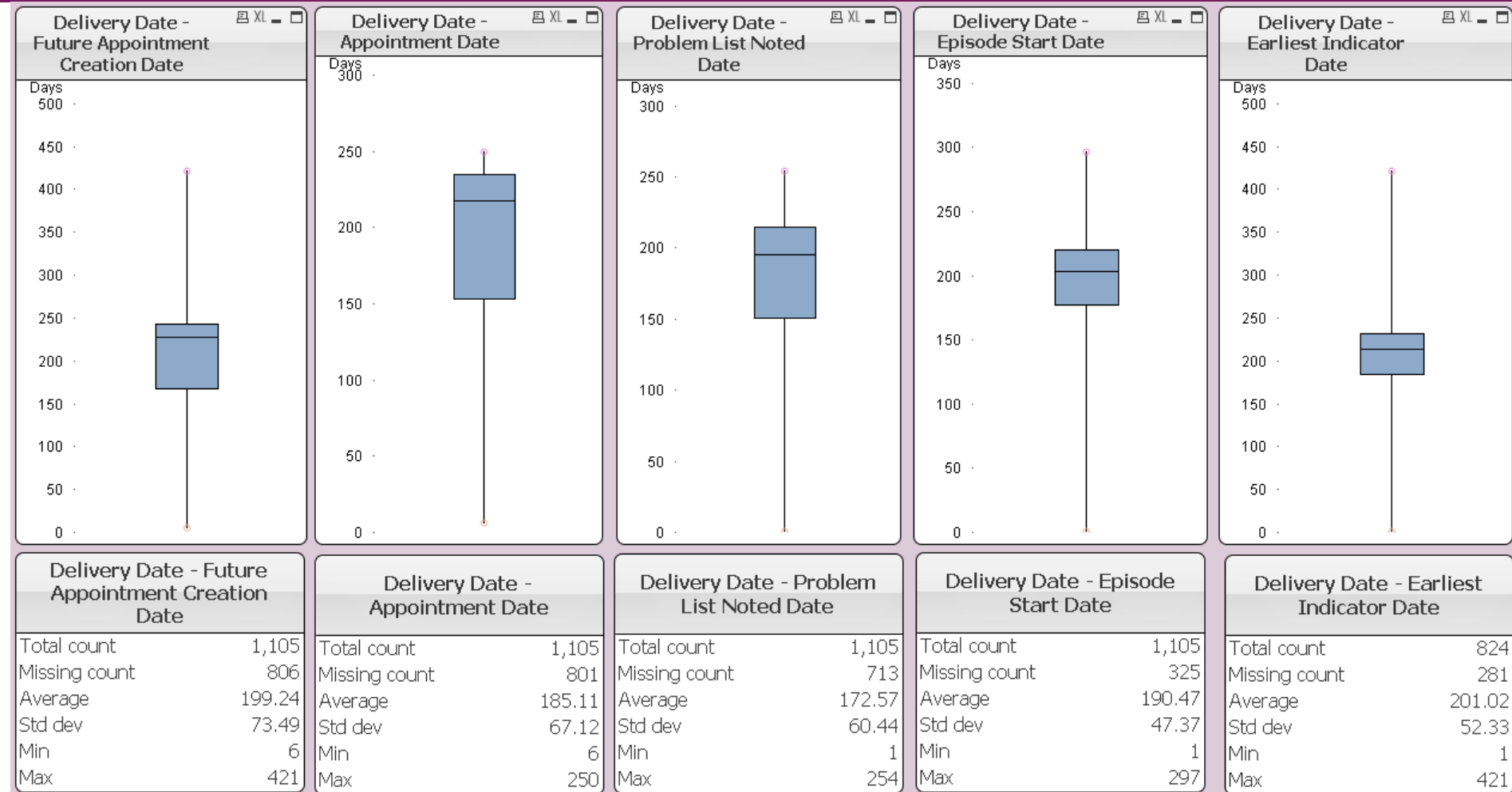 - No medical intervention, probably do NOT touch the EHR

Population-Defining Metric Definitions

- Sample population consists of 1,100 consecutive deliveries at UPMC in March, 2014. Mothers matched with office visits based on the Medical Record Number.

- Pregnancy –
  - Identified using ICD9 codes in the V22 range and ICD9 code V72.42. Prior to ICD 10, there was not a clear way to differentiate between a first trimester visit and a subsequent trimester visit based on diagnosis code alone.
  - Identified using a free text field in the Epic episode tab.

Date Metric Definitions

- Future Appointment Creation Date – Date on which the earliest future pregnancy-related appointment was scheduled (V22.*/Z32.01 as encounter diagnosis, within 250 days of delivery).

- Appointment Date – Earliest pregnancy-related appointment date within 250 days of delivery (V22.*/Z32.01 as encounter diagnosis).

- Problem List Noted Date – Earliest date on which a pregnancy-related diagnosis (V22.*/Z32.01) was added to the problem list within 250 days of delivery, with preference given to those problems which had resolved dates after delivery.

- Episode Start Date – Entered "start date" of a pregnancy "episode" in Epic's episode tab (used to track pregnancies, transplants, etc.). Appears that the entered start date is the same date as the day on which the episode record was created.

- Earliest Indicator Date – Minimum of the four listed dates above

Distribution of Day Differential between Pregnancy Indicator Dates and Delivery Dates

Delivery Date - Future Appointment Creation Date	
Total count	1,105
Missing count	806
Average	199.24
Std dev	73.49
Min	6
Max	421

Delivery Date - Appointment Date	
Total count	1,105
Missing count	801
Average	185.11
Std dev	67.12
Min	6
Max	250

Delivery Date - Problem List Noted Date	
Total count	1,105
Missing count	713
Average	172.57
Std dev	60.44
Min	1
Max	254

Delivery Date - Episode Start Date	
Total count	1,105
Missing count	325
Average	190.47
Std dev	47.37
Min	1
Max	297

Delivery Date - Earliest Indicator Date	
Total count	824
Missing count	281
Average	201.02
Std dev	52.33
Min	1
Max	421

Elements usually sent with a lab test

- Date/time of order message
- MRN(Patient Medical Record Number)
- Facility Hospital ID code
- Patient Name
- Birthdate
- Gender
- Social Security Number
- FIN (Encounter) number
- Pt location

- Attending Physician
- Admitting Physician
- Admit Date
- Order number (HIS number)
- Order Code/description
- Collect date/time
- Ordering Physician
- Priority