

## Appendix 1

### Sample Data-driven Codes

#### Codebook

#### Descriptions

#### Examples

Codebook	Descriptions	Examples
Key Challenges in Data Standardization	Participants refer to their challenges associated with accurate patient matching.	“I have access to the MPI records system training in-house; however, I have found that the training section on the methods of matching patient records did not help me to become familiar with the system.” —Respondent No. 1
Key Challenges in Changing Demographic Data	Participants refer to their challenges with a lack of consistency in the data collection.	“At my current role, I feel that there is a lack of consistency in the data collection to handle constantly changing patient demographic information.” —Respondents No. 4
Key Challenges in Multiple Demographic Data Points	Participants refer to their challenges with a risk of overlaid records.	“I have seen the records did not have enough matching data points and patient matching was based on limited data.” —Respondents No. 1
Key Challenges in Identifying Key Fields	Participants refer to their challenges in identifying key fields such as Social Security number and medical record number due to having default values or no information in the fields. Patients who do not provide their true identities result in default values entered in the MPI.	“Sometimes, I could not enter the patient’s medical record number in the MPI because the field has a default value that did not let me enter it.” —Respondent No. 2
Key Challenges in the MPI That Hinder the Organizational Workflow	Participants refer to their concerns with how the current key challenges in the MPI records affect the organizational workflow.	“One of my concerns is the increased volume of the duplicate patient records in the MPI records system has slowed my workflow.” — Respondent No. 3 “Lack of a standardized direction on how to enter the record in the MPI system has slowed my workflow.” —Respondent No. 1