**Appendix 1: List of predictor variables, data type, and values**

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| --- | --- | --- | --- |
|  | Predictor Variable Name | Data Type | Value |
| Demographics and Social Determinants | Age | Numeric | {0, 1, 2, …} |
| Gender | Categorical | {Female, Male, Other} |
| Race/Ethnicity | Categorical | {White, Black, Hispanic, Asian, …} |
| Marital status | Categorical | {Single, Married, Divorced, …} |
| Preferred language | Categorical | {English, Spanish, …} |
| Primary payor | Categorical | {Medicare, Medicaid, Self-pay, …} |
| Has PCP or not | Binary | {0 = No; 1 = Yes} |
| Visit History\* | Number of completed clinic visits | Numeric | {0, 1, 2, …} |
| Number of ED visits | Numeric | {0, 1, 2, …} |
| Number of hospitalizations | Numeric | {0, 1, 2, …} |
| Number of 72-hour ED returns | Numeric | {0, 1, 2, …} |
| Number of 30-day hospital readmissions | Numeric | {0, 1, 2, …} |
| Number of clinic appointments arranged | Numeric | {0, 1, 2, …} |
| Number of missed clinic appointments | Numeric | {0, 1, 2, …} |
| Disposition of last ED visit | Categorical | {Home, Hospital, Operating Room, Observation Unit, …} |
| Medical Conditions | Number of active medications | Numeric | {0, 1, 2, …} |
| Has chronic disease(s) | Categorical | {No, Single, Multiple} |
| Use of substance | Binary | {0 = No; 1 = Yes} |

\* The past 6 months from the index ED visits