

Example of the daily data (patient-day data) used in the second stage model.

| Encounter ID | Age | Minimal hemoglobin (gm/dl) | ... | Elapsed Length of stay (days) | Estimated counterfactual daily readmission risk |
|--------------|-----|----------------------------|-----|-------------------------------|---|
| 1 | 91 | 13.8 | ... | 0 | 0.12 |
| 1 | 91 | 13.8 | ... | 1 | 0.09 |
| 1 | 91 | 11.3 | ... | 2 | 0.07 |
| 1 | 91 | 10.8 | ... | 3 | 0.06 |
| 1 | 91 | 10.6 | ... | 4 | 0.04 |
| 1 | 91 | 10.2 | ... | 5 | 0.02 |
| 1 | 91 | 10.2 | ... | 5.5 | 0.01 |
| 2 | 60 | 10.6 | ... | 0 | 0.16 |
| 2 | 60 | 10.5 | ... | 1 | 0.18 |
| 2 | 60 | 9.9 | ... | 1.7 | 0.18 |
| ⋮ | ⋮ | ⋮ | ⋮ | ⋮ | ⋮ |
| 534 | 80 | 14.3 | ... | 0 | 0.85 |
| 534 | 80 | 12.9 | ... | 1 | 0.79 |
| 534 | 80 | 12.9 | ... | 1.9 | 0.75 |