Table 2. Multivariable Model to Examine Predictors of Nursing Unit Fall Rates

|  |  |  |  |
| --- | --- | --- | --- |
| Variable | Rate Ratio | 95% CI | P value |
| **GEOGRAPHIC LOCATION** |  |  |  |
| Rural (vs. urban) | 1.01 | .91-1.11 | .893 |
| Region |  |  |  |
|  Midwest | 1.13 | 1.05-1.23 | .002 |
|  South | 1.16 | 1.07-1.25 | <.001 |
|  West | 1.14 | 1.03-1.26 | .008 |
|  Northeast | 1.00 |  |  |
| **HOSPITAL CHARACTERISTICS** |  |  |  |
| Number of beds  |  |  |  |
|  <100  | 1.02 | .92-1.13 | .744 |
|  100-199 | 1.06 | .99-1.13 | .100 |
|  >=200 | 1.00 |  |  |
| **NURSING UNIT CHARACTERISTICS** |  |  |  |
| Unit type  |  |  |  |
|  Critical care | .45 | .41-.50 | <.001 |
|  Medical/surgical | .50 | .46-.55 | <.001 |
|  Rehabilitation | 1.00 |  |  |
| Staffing |  |  |  |
|  All nursing staff hours per patient-day (per 1 hour) | .92 | .91-.93 | <.001 |
|  RN hours per patient-day (per 1 hour) | .90 | .89-.91 | <.001 |
| Education  |  |  |  |
|  BSN and above (per 10%) | .99 | .98-1.00 | .072 |
| Experience  |  |  |  |
|  In practice < 2 years (per 10%) | 1.04 | 1.02-1.05 | <.001 |
|  In practice >10 years (per 10%) | .98 | .97-.99 | .003 |
| Practice Environment (per 1-point score) a  |  |  |  |
|  Nurse participation in hospital affairs | .98 | .88-1.10 | .775 |
|  Nursing foundations for quality of care | .87 | .74 -1.01 | .074 |
|  Nurse manager ability, leadership, and support of nurses | .96 | .89-1.04 | .340 |
|  Nurse staffing and resource adequacy  | .93 | .85-1.02 | .111 |
|  Collegial nurse-physician relations | .94 | .84-1.06 | .321 |
|  Composite score | .92 | .82-1.05 | .224 |
| **NURSE OUTCOMES** |  |  |  |
| Job satisfaction (per 1-point score) | .94 | .91-.98 | .005 |
| Intent to stay (per 10%) | .98 | .97-.99 | .002 |

Note:

All the variables listed but the six practice environment variables were based on the full sample (N=4,496). They were included in the same model, where one of the two staffing variables and one of the two nurse outcome variables were included at a time to avoid collinearity.

a  Results for the six practice environment variables were based on the reduced sample (N=2,265) that had the data available. These six variables were individually included in the models, together with the other variables listed (i.e., rural, region, number of beds in the hospital, unit type, all nursing staff hours, education, experience, and job satisfaction).

CI: confidence interval.