Online Data Supplement: Acute Physiologic Stress and Subsequent Anxiety among Family Members of Intensive Care Unit Patients

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Contents

[Figure E1. Priority for determining which family member to enroll as a participant 2](#_Toc489958487)

[Figure E2. Example Calculation of Area under the Curve with respect to ground from Pruessner et al1 3](#_Toc489958488)

[Table E1. Study Participant Information 4](#_Toc489958489)

[Table E2. ICU Patient Demographic, Medical and Outcome Information 6](#_Toc489958490)

## Figure E1. Priority for determining which family member to enroll as a participant



## Figure E2. Example Calculation of Area under the Curve with respect to ground



## Table E1. Study Participant Information

|  |  |
| --- | --- |
| Variable | Overall |
| Participant Demographics |
| Age; mean ± SD | 54 ± 14 |
| Female sex; n (%) | 63 (64%) |
| Race; n (%) American Indian or Alaskan Native Asian Black Native Hawaiian or Pacific Islander White Not reported | 1 (1%)3 (3%)2 (2%)2 (2%)89 (90%)2 (2%) |
| Ethnicity; n (%) Hispanic or Latino Not Hispanic or Latino Not reported | 8 (8%)90 (91%)1 (1%) |
| Education; n (%) Some schooling High school diploma, GED, or equivalent Associates degree Bachelor’s degree Graduate degree (masters, doctorate) | 3 (3%)48 (49%)23 (23%)15 (15%)10 (10%) |
| Participant Medical History |
| Ever smoker; n (%) | 37 (37%) |
| Pack years; median (IQR) | 8 (5 – 21) |
| Current smoker; n (%) | 10 (10%) |
| Alcohol frequency; n (%) Never Monthly or less 2 to 4 times a month 2 to 3 times a week 4 or more times a week | 56 (57%)19 (19%)15 (15%)7 (7%)2 (2%) |
| Chronic pain; n (%) | 19 (19%) |
| Sleep disorder; n (%) | 25 (25%) |
| Obese; n (%) | 19 (19%) |
| Participant Medication Usage; n (%) |
| Anxiety/sleep | 17 (17%) |
| Depression | 26 (26%) |
| Pain | 15 (15%) |
| Birth control | 4 (4%) |

## Table E2. ICU Patient Demographic, Medical and Outcome Information

|  |
| --- |
| Patient Demographics |
| Age; mean ± SD | 60 ± 17 |
| Female sex; n (%) | 50 (51%) |
| Race; n (%) American Indian or Alaskan Native Asian Black Native Hawaiian or Pacific Islander White Not reported | 1 (1%)3 (3%)3 (3%)2 (2%)88 (89%)2 (2%) |
| Ethnicity; n (%) Hispanic or Latino Not Hispanic or Latino Not reported | 9 (9%)89 (90%)1 (1%) |
| Education; n (%) Some schooling High school diploma, GED, or equivalent Associates degree Bachelor’s degree Graduate degree (masters, doctorate) | 14 (14%)53 (54%)16 (16%)10 (10%)6 (6%) |
| Primary ICU Diagnosis; n (%) Cardiac GI/Hepatic Neurologic Respiratory Sepsis Trauma Other | 7 (7%)10 (10%)4 (4%)14 (14%)42 (42%)18 (18%)4 (4%) |
| Admission APACHE II; mean ± SD | 30 ± 7 |
| Elixhauser; mean ± SD | 5 ± 3 |
|  End stage heart failure; n (%) | 0 (0%) |
|  Liver failure; n (%) | 5 (5%) |
|  Renal failure; n (%) | 8 (8%) |
|  Malignancy; n (%) | 7 (7%) |
|  Dementia; n (%) | 1 (1%) |
| Mechanical ventilation (first 24 hours); n (%) | 54 (55%) |
| Mechanical ventilation (ever); n (%) | 63 (64%) |
| Patient Hospitalization History; n (%) |
| Previous ICU admit (last 5 years) | 47 (47%) |
| Number of ICU Admits (last 5 years) None 1 other admission 2-5 admissions >5 admissions | 52 (53%)17 (17%)28 (28%)2 (2%) |
| Patient Outcomes |
| ICU LOS (days) ; median (IQR) | 3.3 (1.9 – 8.4) |
| Hospital LOS (days) ; median (IQR) | 7.8 (3.8 – 13.6) |
| In-hospital mortality; n (%)*[Denominator is all participants enrolled (n=99)]*  | 21 (21%) |
| 3-month mortality; n (%)*[Denominator is participants who completed follow up (n=92)]* | 27 (29%) |
| Patient residence at 3 months; n (%) At their home In someone else’s home In a care facility Other Deceased*[Denominator is participants who completed follow up (n=92)]* | 50 (54%)7 (8%)6 (7%)2 (2%)27 (29%) |