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

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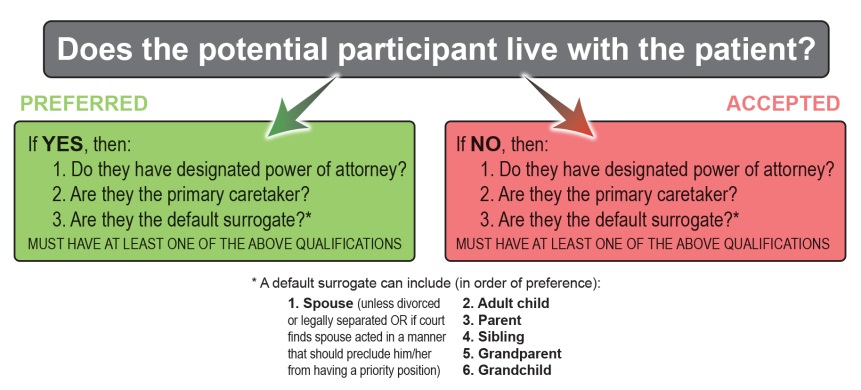
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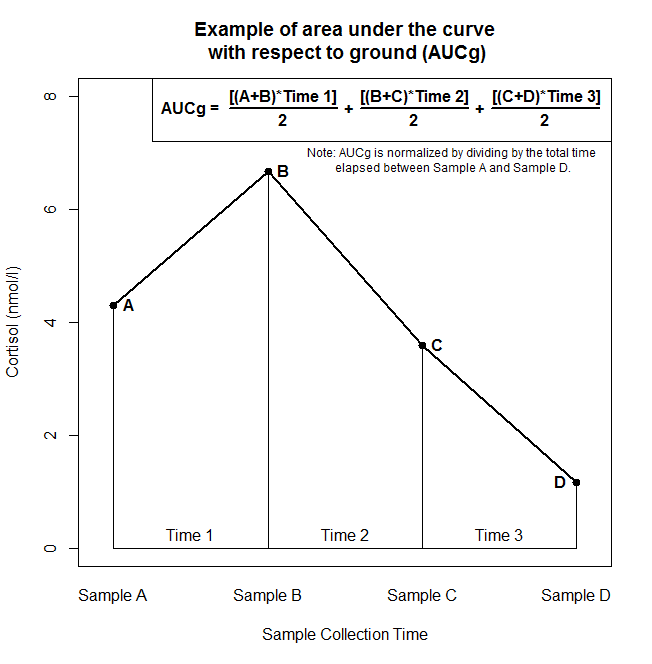
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## Figure E1. Priority for determining which family member to enroll as a participant



## 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%) |