Final Examination for doctoral program at the Faculty of Public Health

Doctor of Public Health

Doctor of Philosophy in Epidemiology and Biostatistics

(Duration: 4 hours; Total score: 100)

*Students can use books or internet. Communication with anybody else is strictly prohibited.*

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**Part A: Research Methodology** (50 scores)

**Based on the attached article, please answer the following questions:**

1). What is the primary research question? (2 scores)

2). What is the type of the research design? (2 scores)

3). What is the dependent variable that is the primary outcome? Please specify name and type of the variable. (2 scores)

4) What is(are) independent variable(s)? Please specify name and type of the variable. (2 scores)

5). What is the magnitude of effect that the author used for answering the primary research question? If there was none or inappropriately reported, please specify what should be reported for the research question? (12 scores)

6). What is the major weakness of the study that made the results invalid? Then please specify the name of the bias and describe how such bias distorted the results. (15 scores)

7). Please summarize in one paragraph of less than 10 lines the main points that will improve the quality of this paper- pretending you are writing a letter to the editor of this journal regarding this paper. (15 scores)

**Part B: Statistics** (50 scores)

**Based on the attached data set with a description below, please answer the following questions:**

8). Plan for data analysis: Please provide a dummy table, the table without number being presented, that is the main finding to answer the research question for this study. (15 scores)

9). Please provide Stata or R commands (Stata do file or R scripts) to obtain the results for the dummy table you’ve provided on question #8. (15 scores)

10). Please summarize results as an abstract. Note that this must be presented with real results obtained from your own analysis. (20 scores)

✂---------------- Please cut this blue part before you submit your answer-----------------

**Data and descriptions**

**i. Rationale**

Sudden unexplained nocturnal death syndrome (SUDS) has been reported worldwide. Thai Sudden Unexplained Death Syndrome (Thai SUDS), or Lai-Tai, is a major health problem among rural residents of northeastern Thailand. It has been reported more frequently among Thai migrant workers at Singapore. However, the cause was unclear.

**ii. Objective:**

To determine factors affecting Sudden Unexplained Death Syndrome

**iii. Study design:**

A cohort of 500 Thai construction workers who were employed in a company at Singapore were followed.

**iv.**  **Data dictionary**

|  |  |
| --- | --- |
| **id** | Identification Number |
| **suds** | Sudden unexplained death syndrome (SUDS) (1=Yes; 0=No) |
| **plara** | Eating fermented fish (Plara) (1=Yes; 0=No) |
| **relative** | Relatives with history of SUDS (1=Yes; 0=No) |
| **whr** | Working hours per week (in hours) |
| **age** | Age (in years) |
| **region** | Religion of residence: 1=Northeast; 2=North; 3=Central; 4=South |

**v. Data**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **id** | **suds** | **plara** | **relative** | **whr** | **age** | **region** |
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| 2 | 0 | 1 | 0 | 25 | 17 | 0 |
| 3 | 0 | 1 | 0 | 25 | 17 | 0 |
| 4 | 0 | 1 | 0 | 26 | 17 | 0 |
| 5 | 0 | 1 | 0 | 28 | 17 | 0 |
| 6 | 0 | 0 | 0 | 30 | 17 | 0 |
| 7 | 0 | 1 | 0 | 23 | 18 | 0 |
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| 36 | 1 | 0 | 0 | 29 | 19 | 0 |
| 37 | 0 | 1 | 0 | 30 | 19 | 0 |
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| 42 | 0 | 1 | 0 | 31 | 19 | 0 |
| 43 | 0 | 1 | 0 | 31 | 19 | 0 |
| 44 | 0 | 1 | 0 | 32 | 19 | 0 |
| 45 | 0 | 0 | 0 | 33 | 19 | 0 |
| 46 | 0 | 0 | 0 | 33 | 19 | 0 |
| 47 | 0 | 1 | 0 | 34 | 19 | 0 |
| 48 | 0 | 1 | 0 | 34 | 19 | 0 |
| 49 | 0 | 1 | 0 | 34 | 19 | 0 |
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| 52 | 0 | 1 | 0 | 21 | 20 | 0 |
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| 55 | 0 | 1 | 0 | 22 | 20 | 0 |
| 56 | 0 | 1 | 0 | 24 | 20 | 0 |
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| 108 | 0 | 1 | 0 | 37 | 20 | 1 |
| 109 | 1 | 0 | 0 | 22 | 21 | 0 |
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| 139 | 0 | 1 | 0 | 38 | 21 | 1 |
| 140 | 1 | 0 | 0 | 19 | 22 | 0 |
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| 143 | 1 | 1 | 1 | 26 | 22 | 0 |
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| 282 | 0 | 1 | 0 | 26 | 25 | 1 |
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| 337 | 0 | 1 | 1 | 22 | 28 | 0 |
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| 398 | 0 | 0 | 0 | 31 | 30 | 0 |
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| 400 | 0 | 0 | 0 | 35 | 30 | 0 |
| 401 | 0 | 1 | 0 | 35 | 30 | 0 |
| 402 | 0 | 0 | 0 | 38 | 30 | 0 |
| 403 | 0 | 0 | 0 | 39 | 30 | 0 |
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| 417 | 0 | 1 | 0 | 34 | 30 | 1 |
| 418 | 0 | 0 | 0 | 35 | 30 | 1 |
| 419 | 0 | 1 | 0 | 36 | 30 | 1 |
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| 421 | 0 | 1 | 0 | 33 | 30 | 2 |
| 422 | 0 | 0 | 0 | 35 | 30 | 3 |
| 423 | 0 | 1 | 0 | 29 | 31 | 0 |
| 424 | 0 | 0 | 0 | 31 | 31 | 0 |
| 425 | 0 | 1 | 0 | 34 | 31 | 0 |
| 426 | 0 | 0 | 0 | 35 | 31 | 0 |
| 427 | 1 | 1 | 1 | 25 | 31 | 1 |
| 428 | 0 | 0 | 0 | 33 | 31 | 2 |
| 429 | 0 | 0 | 0 | 33 | 31 | 2 |
| 430 | 0 | 1 | 0 | 27 | 31 | 3 |
| 431 | 0 | 0 | 0 | 29 | 32 | 0 |
| 432 | 0 | 0 | 0 | 29 | 32 | 0 |
| 433 | 0 | 1 | 0 | 31 | 32 | 0 |
| 434 | 0 | 0 | 0 | 33 | 32 | 0 |
| 435 | 0 | 0 | 0 | 35 | 32 | 0 |
| 436 | 0 | 0 | 0 | 35 | 32 | 0 |
| 437 | 0 | 1 | 0 | 36 | 32 | 0 |
| 438 | 0 | 1 | 0 | 36 | 32 | 0 |
| 439 | 1 | 1 | 1 | 26 | 32 | 1 |
| 440 | 1 | 1 | 1 | 27 | 32 | 1 |
| 441 | 0 | 0 | 0 | 28 | 32 | 1 |
| 442 | 1 | 0 | 0 | 35 | 32 | 1 |
| 443 | 0 | 0 | 0 | 36 | 32 | 1 |
| 444 | 0 | 0 | 0 | 35 | 32 | 2 |
| 445 | 0 | 0 | 0 | 30 | 33 | 0 |
| 446 | 0 | 1 | 0 | 30 | 33 | 0 |
| 447 | 1 | 1 | 1 | 30 | 33 | 0 |
| 448 | 0 | 1 | 1 | 32 | 33 | 0 |
| 449 | 0 | 0 | 0 | 35 | 33 | 0 |
| 450 | 0 | 1 | 0 | 35 | 33 | 0 |
| 451 | 0 | 1 | 0 | 38 | 33 | 0 |
| 452 | 0 | 0 | 0 | 30 | 33 | 1 |
| 453 | 1 | 0 | 1 | 20 | 33 | 3 |
| 454 | 1 | 0 | 1 | 20 | 33 | 3 |
| 455 | 0 | 1 | 0 | 29 | 33 | 3 |
| 456 | 0 | 1 | 0 | 27 | 34 | 0 |
| 457 | 0 | 0 | 0 | 31 | 34 | 0 |
| 458 | 0 | 1 | 0 | 32 | 34 | 0 |
| 459 | 0 | 0 | 0 | 39 | 34 | 0 |
| 460 | 0 | 1 | 0 | 30 | 34 | 1 |
| 461 | 0 | 1 | 0 | 24 | 35 | 0 |
| 462 | 0 | 1 | 0 | 25 | 35 | 0 |
| 463 | 0 | 0 | 0 | 30 | 35 | 0 |
| 464 | 0 | 0 | 0 | 30 | 35 | 0 |
| 465 | 0 | 0 | 0 | 31 | 35 | 0 |
| 466 | 0 | 0 | 0 | 32 | 35 | 0 |
| 467 | 0 | 0 | 0 | 32 | 35 | 0 |
| 468 | 0 | 0 | 0 | 35 | 35 | 0 |
| 469 | 0 | 0 | 0 | 35 | 35 | 0 |
| 470 | 1 | 1 | 1 | 20 | 35 | 1 |
| 471 | 1 | 1 | 1 | 20 | 35 | 1 |
| 472 | 0 | 0 | 0 | 25 | 35 | 1 |
| 473 | 1 | 1 | 1 | 26 | 35 | 1 |
| 474 | 0 | 0 | 0 | 30 | 35 | 1 |
| 475 | 0 | 0 | 0 | 30 | 35 | 1 |
| 476 | 0 | 1 | 0 | 35 | 35 | 1 |
| 477 | 1 | 1 | 0 | 20 | 35 | 3 |
| 478 | 0 | 0 | 0 | 25 | 36 | 0 |
| 479 | 0 | 1 | 1 | 27 | 36 | 0 |
| 480 | 0 | 1 | 0 | 29 | 36 | 0 |
| 481 | 0 | 1 | 0 | 31 | 36 | 0 |
| 482 | 0 | 1 | 0 | 32 | 36 | 0 |
| 483 | 1 | 0 | 0 | 34 | 36 | 2 |
| 484 | 0 | 1 | 1 | 30 | 37 | 0 |
| 485 | 0 | 1 | 0 | 31 | 37 | 2 |
| 486 | 0 | 1 | 0 | 36 | 37 | 2 |
| 487 | 0 | 1 | 0 | 36 | 37 | 2 |
| 488 | 1 | 1 | 0 | 29 | 38 | 0 |
| 489 | 0 | 1 | 0 | 30 | 39 | 1 |
| 490 | 0 | 0 | 0 | 32 | 39 | 2 |
| 491 | 0 | 0 | 0 | 27 | 40 | 0 |
| 492 | 0 | 0 | 0 | 30 | 40 | 0 |
| 493 | 0 | 0 | 0 | 32 | 40 | 0 |
| 494 | 0 | 1 | 1 | 33 | 40 | 0 |
| 495 | 0 | 0 | 0 | 35 | 40 | 0 |
| 496 | 0 | 1 | 0 | 40 | 40 | 0 |
| 497 | 1 | 1 | 0 | 20 | 40 | 2 |
| 498 | 0 | 0 | 0 | 33 | 40 | 3 |
| 499 | 0 | 1 | 0 | 30 | 42 | 2 |
| 500 | 0 | 0 | 0 | 36 | 42 | 3 |

\*\*\*\*\*\*\*\*Good luck \*\*\*\*\*\*\*\*