# Dataset name: psqi_v2.1 

Participant ID pid | D000000 |
| :--- |

| Acrostic acrostic $\quad$ ZZZZZ |  |  |
| :---: | :---: | :---: |
| Interviewer compby |  | YYY |
| Date of Visit vis_dat |  | m/dd/yyyy) |

## PITTSBURGH SLEEP QUALITY INDEX (PSQI)

## CRF 2.1

Pre-Interview Instructions to Participant:
"The following questions relate to your usual sleep habits during the past month only. Your answers should indicate the most accurate reply for the majority of the days and nights in the past month. Please answer all questions."
During the past month. $\qquad$

1. At what hour have you usually gone to bed?
2. How long (in minutes) has it taken you to fall asleep each night?
3. At what hour have you usually gotten up in the morning?
4. How many hours of actual sleep did you get last night? (This may be different than the hours you spend in bed.)
During the past month, how often have you had trouble
sleeping because you
5. Cannot get to sleep with 30 minutes?
tobedhr_psqi (24 hour clock)

arisehr_psqi (24 hour clock)
sleephrs_psqi $\begin{aligned} & \text { (hours) }\end{aligned}$
$\qquad$


insomnia_psqi
-9
1 Not during the past month
2 LT once a week
3 Once or twice a week
43 or more times a week
-6 Permanently Missing
wakeful_psqi
6. Wake up in the middle of the night or early morning?
-9
1 Not during the past month
2 LT once a week
3 Once or twice a week
43 or more times a week
-6 Permanently Missing
bathroom_psqi
7. Have to get up to use the
-9.
1 Not during the past month
2 LT once a week
3 Once or twice a week


| often have you taken | 1 Not during the past month |
| :--- | :--- |
| medicine (prescribed or "over | 2 LT once a week |
| 3 Once or twice a week |  |
| the counter") to help you | 43 or more times a week |
| sleep? | -6 Permanently Missing |
|  | - |

16. During the past month, how often have you had trouble staying awake while driving, eating meals, or engaging in social activities?
drowsy_psqi
$-9$
1 Not during the past month
2 LT once a week
3 Once or twice a week
43 or more times a week
-6 Permanently Missing
enthused_psqi
17. During the past month, how much of a problem has it been for you to keep enthusiasm to

1 Not during the past month get things done?

2 LT once a week
3 Once or twice a week
43 or more times a week
-6 Permanently Missing

18. During the past month, how would you rate your sleep quality overall?
sleepqual_psqi

1 English


## PITTSBURGH SLEEP QUALITY INDEX (PSQI)

## Pre-Interview Instructions to Participant:

"The following questions relate to your usual sleep habits during the past month only. Your answers should indicate the most accurate reply for the majority of the days and nights in the past month. Please answer all questions."

During the past month.

1. At what hour have you usually gone to bed?


Minutes
2. How long (in minutes) has it taken you to fall asleep each night?
3. At what hour have you usually gotten up in the morning?

4. How many hours of actual sleep did you get last night? (This may be different than the hours you spend in bed.)

| During the past month, how often have <br> you had trouble sleeping because <br> you......... | Not <br> during <br> the past <br> month(0) | Less than <br> once a <br> week (1) | Once or <br> twice a <br> week (2) | Three or <br> more <br> times a <br> week (3) |
| :--- | :---: | :---: | :---: | :---: |
| 5. Cannot get to sleep with 30 minutes? | $\square$ | $\square$ | $\square$ | $\square$ |
| 6. Wake up in the middle of the night or <br> early morning? | $\square$ | $\square$ | $\square$ | $\square$ |
| 7. Have to get up to use the bathroom? | $\square$ | $\square$ | $\square$ | $\square$ |
| 8. Cannot breathe comfortably? | $\square$ | $\square$ | $\square$ | $\square$ |
| 9. Cough or snore loudly? | $\square$ | $\square$ | $\square$ | $\square$ |
| 10. Feel too cold? | $\square$ | $\square$ | $\square$ | $\square$ |
| 11. Feel too hot? | $\square$ | $\square$ | $\square$ | $\square$ |
| 12. Have bad dreams? | $\square$ | $\square$ | $\square$ | $\square$ |
| 13. Have pain? | $\square$ | $\square$ | $\square$ | $\square$ |
| 14. Other reasons(s), please describe, |  |  |  |  |
| including how often you have had trouble |  |  |  |  |
| sleeping because of this reason(s): | $\square$ | $\square$ | $\square$ | $\square$ |



|  | Not <br> during <br> the past <br> month(0) | Less than <br> once a <br> week (1) | Once or <br> twice a <br> week (2) | Three or <br> more <br> times a <br> week (3) |
| :--- | :--- | :--- | :--- | :--- |
| 15. During the past month, how often have <br> you taken medicine (prescribed or "over <br> the counter") to help you sleep? | $\square$ | $\square$ | $\square$ | $\square$ |
| 16. During the past month, how often have <br> you had trouble staying awake while <br> driving, eating meals, or engaging in <br> social activities? | $\square$ | $\square$ | $\square$ | $\square$ |
| 17. During the past month, how much of a <br> problem has it been for you to keep <br> enthusiasm to get things done? | $\square$ | $\square$ | $\square$ | $\square$ |
| F | $\square$ | $\square$ | $\square$ |  |
| 18. During the past month, how would you <br> rate your sleep quality overall? | $\square$ | $\square$ | Fairly <br> good (1) | Fairly <br> bad (2) |

## Pittsburgh Sleep Quality Index (PSQI)

## Form Administration Instructions, References, and Scoring

## Form Administration Instructions

The range of values for questions 5 through 10 are all 0 to 3 .
Questions 1 through 9 are not allowed to be missing except as noted below. If these questions are missing then any scores calculated using missing questions are also missing. Thus it is important to make sure that all questions 1 through 9 have been answered.

In the event that a range is given for an answer (for example, ' 30 to 60 ' is written as the answer to Q2, minutes to fall asleep), split the difference and enter 45.

## Reference

Buysse DJ, Reynolds CF, Monk TH, Berman SR, Kupfer DJ: The Pittsburgh Sleep Quality Index: A new instrument for psychiatric practice and research. Psychiatry Research 28:193-213, 1989.

## Scores - reportable in publications

On May 20, 2005, on the instruction of Dr. Daniel J. Buysse, the scoring of the PSQI was changed to set the score for Q 5 J to 0 if either the comment or the value was missing. This may reduce the DISTB score by 1 point and the PSQI Total Score by 1 point.

## PSQIDURAT DURATION OF SLEEP

IF Q4 $\geq 7$, THEN set value to 0
IF Q4 $<7$ and $\geq 6$, THEN set value to 1
IF Q4 $<6$ and $\geq 5$, THEN set value to 2
IF Q4 < 5, THEN set value to 3
Minimum Score = 0 (better); Maximum Score = 3 (worse)

## PSQIDISTB

## PSQILATEN

## SLEEP DISTURBANCE

IF Q5b + Q5c + Q5d + Q5e + Q5f + Q5g + Q5h + Q5i + Q5j (IF Q5JCOM is null or $Q 5 j$ is null, set the value of $Q 5 j$ to 0 ) $=0$, THEN set value to 0

IF Q5b + Q5c + Q5d + Q5e + Q5f + Q5g + Q5h + Q5i + Q5j (IF Q5JCOM is null or Q5j is null, set the value of Q5j to 0$) \geq 1$ and $\leq 9$, THEN set value to 1

IF Q5b + Q5c + Q5d + Q5e + Q5f + Q5g + Q5h + Q5i + Q5j (IF Q5JCOM is null or Q5j is null, set the value of Q5j to 0 ) $>9$ and $\leq 18$, THEN set value to 2

IF Q5b + Q5c + Q5d + Q5e + Q5f + Q5g + Q5h + Q5i + Q5j (IF Q5JCOM is null or Q5j is null, set the value of Q5j to 0 ) $>18$, THEN set value to 3

Minimum Score $=0$ (better); Maximum Score $=3$ (worse)

## SLEEP LATENCY

First, recode Q2 into Q2new thusly:
IF Q2 $\geq 0$ and $\leq 15$, THEN set value of Q2new to 0 IF Q2 $>15$ and $\leq 30$, THEN set value of Q2new to 1 IF Q2 $>30$ and $\leq 60$, THEN set value of Q2new to 2 IF Q2 $>60$, THEN set value of Q2new to 3

|  | Next <br> IF Q5a + Q2new $=0$, THEN set value to 0 <br> IF Q5a + Q2new $\geq 1$ and $\leq 2$, THEN set value to 1 <br> IF Q5a + Q2new $\geq 3$ and $\leq 4$, THEN set value to 2 <br> IF Q5a + Q2new $\geq 5$ and $\leq 6$, THEN set value to 3 |
| :---: | :---: |
|  | Minimum Score = 0 (better); Maximum Score = 3 (worse) |
| PSQIDAYDYS | DAY DYSFUNCTION DUE TO SLEEPINESS <br> IF Q8 + Q9 $=0$, THEN set value to 0 <br> IF Q8 + Q9 $\geq 1$ and $\leq 2$, THEN set value to 1 <br> IF Q8 + Q9 $\geq 3$ and $\leq 4$, THEN set value to 2 <br> IF Q8 + Q9 $\geq 5$ and $\leq 6$, THEN set value to 3 <br> Minimum Score $=0$ (better); Maximum Score $=3$ (worse) |
| PSQIHSE | SLEEP EFFICIENCY <br> Diffsec = Difference in seconds between day and time of day Q1 and day Q3 <br> Diffhour $=$ Absolute value of diffsec $/ 3600$ <br> newtib $=$ IF diffhour $>24$, then newtib $=$ diffhour -24 <br> IF diffhour $\leq 24$, THEN newtib $=$ diffhour <br> (NOTE, THE ABOVE JUST CALCULATES THE HOURS BETWEEN GNT (Q1) <br> AND GMT (Q3)) <br> tmphse $=($ Q4 / newtib) * 100 |
|  | IF tmphse $\geq 85$, THEN set value to 0 <br> IF tmphse $<85$ and $\geq 75$, THEN set value to 1 <br> IF tmphse $<75$ and $\geq 65$, THEN set value to 2 <br> IF tmphse $<65$, THEN set value to 3 <br> Minimum Score $=0$ (better); Maximum Score $=3$ (worse) |
| PSQISLPQUAL | OVERALL SLEEP QUALITY <br> Q6 <br> Minimum Score $=0$ (better); Maximum Score $=3$ (worse) |
| PSQIMEDS | NEED MEDS TO SLEEP <br> Q7 <br> Minimum Score $=0$ (better); Maximum Score $=3$ (worse) |
| PSQI | TOTAL <br> DURAT + DISTB + LATEN + DAYDYS + HSE + SLPQUAL + MEDS <br> Minimum Score $=0$ (better); Maximum Score $=21$ (worse) <br> Interpretation: TOTAL $\leq 5$ associated with good sleep quality TOTAL $>5$ associated with poor sleep quality |

