## Mini-Mental State Examination (MMSE)

Patient's Name: $\qquad$ Date:
Instructions: Score one point for each correct response within each question or activity.

| Maximum Score | Patient's <br> Score | Questions |
| :---: | :---: | :---: |
| 5 |  | "What is the year? Season? Date? Day? Month?" |
| 5 |  | "Where are we now? State? County? Town/city? Hospital? Floor?" |
| 3 |  | The examiner names three unrelated objects clearly and slowly, then the instructor asks the patient to name all three of them. The patient's response is used for scoring. The examiner repeats them until patient learns all of them, if possible. |
| 5 |  | "I would like you to count backward from 100 by sevens." (93, 86, 79, $72,65, \ldots$ ) <br> Alternative: "Spell WORLD backwards." (D-L-R-O-W) |
| 3 |  | "Earlier I told you the names of three things. Can you tell me what those were?" |
| 2 |  | Show the patient two simple objects, such as a wristwatch and a pencil, and ask the patient to name them. |
| 1 |  | "Repeat the phrase: 'No ifs, ands, or buts.'" |
| 3 |  | "Take the paper in your right hand, fold it in half, and put it on the floor." (The examiner gives the patient a piece of blank paper.) |
| 1 |  | "Please read this and do what it says." (Written instruction is "Close your eyes.") |
| 1 |  | "Make up and write a sentence about anything." (This sentence must contain a noun and a verb.) |
| 1 |  | "Please copy this picture." (The examiner gives the patient a blank piece of paper and asks him/her to draw the symbol below. All 10 angles must be present and two must intersect.) |
| 30 |  | TOTAL |

## Interpretation of the MMSE:

| Method | Score | Interpretation |
| :---: | :---: | :--- |
| Single Cutoff | $<24$ | Abnormal |
| Range | $<21$ | Increased odds of dementia |
|  | $>25$ | Decreased odds of dementia |
| Education | 21 | Abnormal for 8 ${ }^{\text {th }}$ grade education |
|  | $<23$ | Abnormal for high school education |
|  | $<24$ | Abnormal for college education |
| Severity | $24-30$ | No cognitive impairment |
|  | $18-23$ | Mild cognitive impairment |
|  | $0-17$ | Severe cognitive impairment |

## Interpretation of MMSE Scores:

| Score | Degree of <br> Impairment | Formal Psychometric <br> Assessment | Day-to-Day Functioning |
| :---: | :---: | :--- | :--- |
| $25-30$ | Questionably <br> significant | If clinical signs of cognitive impairment <br> are present, formal assessment of <br> cognition may be valuable. | May have clinically significant but mild <br> deficits. Likely to affect only most <br> demanding activities of daily living. |
| $20-25$ | Mild | Formal assessment may be helpful to <br> better determine pattern and extent of <br> deficits. | Significant effect. May require some <br> supervision, support and assistance. |
| $10-20$ | Moderate | Formal assessment may be helpful if <br> there are specific clinical indications. | Clear impairment. May require 24-hour <br> supervision. |
| $0-10$ | Severe | Patient not likely to be testable. | Marked impairment. Likely to require <br> 24-hour supervision and assistance <br> with ADL. |

## Source:

- Folstein MF, Folstein SE, McHugh PR: "Mini-mental state: A practical method for grading the cognitive state of patients for the clinician." J Psychiatr Res 1975;12:189-198.


## APPENDIX 2

## Telephone Interview for Cognitive Status" <br> by Jason Brandt, PhD, and Marshal F. Folstein, MD

Examinee Name or ID $\qquad$ Date of Testing $\qquad$ Date of Birth $\qquad$ Age $\qquad$
Address of Examinee $\qquad$ City
State Zip Code $\quad$ Education Level (no. of years or degree)
Name of Examiner___ Name of Proctor ___

## Suggested Qualitative Interpretive Ranges for TICS Total Score Range

$\square$ 33-41 Nonimpaired
$\square$ 26-32 Ambiguous
$\square$ 21-25 Mildly Impaired
$\square \leq 20$ Moderately to Severely Impaired

## TICS T scores

| For individuals with < 12 years of education and $\geq 65$ years of age | For individuals with $\geq 12$ years of education and $\geq 60$ years of age |
| :---: | :---: |
| MMSE Total score equivalent of TICS <br> Total score = $\qquad$ <br> (Obtain from Table 3 of TICS Professional Manual) <br> $T$ score $=$ $\qquad$ <br> (Obtain from Tables A10-A14 of MMSE Clinical Guide) | $T$ score $=$ $\qquad$ <br> (Obtain from Table 2 of TICS Professional Manual) <br> 90\% Confidence Interval $\qquad$ to $\qquad$ |

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## TICS Administration Instructions

Prior to the TICS administration, examiners should ensure that they have obtained all of the necessary information (e.g., examinee's full name, complete address, etc.).

## Instructions to Proctor

In a couple of minutes, I am going to be asking [examinee's name] a number of different questions to test [his/her] thinking and memory. Before we start, I need to ask you whether the address I have for your current location is correct. Please don't repeat it out loud if [examinee's name] is in the room with you, since I will be asking [him/her] the same question in a few minutes. Is your current address [examinee's address]? If the answer is "no," please ask the proctor either to step into another room before giving you the correct address or to have the examinee leave the room oriefly before giving you the address. Then go on to say, Please be sure that all papers, pencils, books, calendars, newspapers, and everything else that might provide distraction or visual cues are removed from [examinee's name] sight. Also, please be sure that the room is quiet; there should be no television, radio, or music playing.
Some of the questions may be difficult for [examinee's name] to answer. [He/She] may ask you for help. If [he/she] does, just encourage [him/her] to do as well as [he/she] can. [He/She] should guess if necessary. Please do not give [him/her] any answers or hints. O.K.? If you and [examinee's name] are ready, please put [him/her] on the phone.
Instructions to Examinee
I am going to ask you some questions to test your memory. Some of these are likely to be easy for you, but some may be difficult. Please bear with me and try to answer all the questions as best you can. If you can't answer a question, don't worry. Just try your best. Are you ready? These instructions may be repeated verbatim or paraphrased if necessary. For each of the actual TICS items, except Item 5 and Item 8, single repetitions are permitted.

| Item | Item response | Scoring criteria | Max. score | Item score |
| :---: | :---: | :---: | :---: | :---: |
| 1. Please tell me your full name. |  | 1 point for correct first name (or nickname) and 1 point for correct last name | 2 |  |
| 2. What is today's date? <br> Probe for month, date, year, day of week, and season if any not provided spontaneously (e.g., What day of the week is it? or What season is it?). |  | 1 point each for precisely correct month, date, year, day of the week, and season (e.g., a hot day in early June is not summer) | 5 |  |
| 3. Where are you right now? <br> Probe for house number, street, city, state, and zip code if any not provided spontaneously (e.g., What number is that? What is your zip code?). |  | 1 point each for correct house number, street, city, state, and zip code (5-digit zip code is sufficient). If examinee is in a facility with no house number (e.g., hospital, nursing home), the name of the facility may be substituted for the house number. | 5 |  |
| 4. Please count backward from 20 to 1. <br> If examinee makes an error, ask him or her to try again. |  | 2 points if completely correct on first trial 1 point if completely correct on second trial | 2 |  |
| 5. I am going to read you a list of 10 words. Please listen carefully and try to remember them. When I am done, tell me as many of the words as you can, in any order. Ready? The words are (pause) cabin, pipe, elephant, chest, silk, theater, watch, whip, pillow, giant. (Pause.) Now tell me all the words you can remember. <br> The words should be read at approximately one word every 2 seconds. No repetitions of the word list are permitted. |  | 1 point for each correctly recalled word <br> 0 points for incorrect responses, repetitions, or intrusions | 10 |  |


| Item | Item response | Scoring criteria | Max. score | Item score |
| :---: | :---: | :---: | :---: | :---: |
| 6. I would like you to take the number 100 and subtract 7. (Pause for a response.) Now keep subtracting 7 from the answer until I tell you to stop. No further prompis or instructions are given, except to "keep going." Stop the examinee after five serial subtractions. |  | 1 point for each correct subtraction Do not inform examinee of incorrect responses, but allow subtractions to be made from the last response. For example, " $93,85,78,71,65$ " would be awarded 3 points. | 5 |  |
| 7. What do people usually use to cut paper? (Pause for a response.) <br> How many things are in a dozen? <br> (Pause for a response.) <br> What do you call the prickly green plant that lives in the desert? <br> (Pause for a response.) <br> What animal does wool come from? |  | 1 point each for "scissors" or "shears" <br> 1 point for "12" <br> 1 point for "cactus" <br> 1 point for "sheep" or "lamb" | 4 |  |
| 8. Please repeat this after me: "No ifs, ands; or buts." (Pause for a response.) <br> Now, please repeat this after me: "Methodist Episcopal." <br> No repetitions of the phrases are permitted. |  | 1 point for correct repetition <br> 1 point for correct repetition | 2 |  |
| 9. Who is the President of the United States right now? (Pause for a response.) <br> Who is the Vice-President? <br> Both first and last names must be correct. If only the last name is given, probe for the full name. |  | 1 point for current president's full name <br> 1 point for current vice-president's full name | 2 |  |
| 10. With your finger, tap five times on the part of the phone you speak into. <br> If the TICS is being administered in person, the examinee should be asked to tap on the table rather than on a telephone receiver. |  | 2 points if five taps are clearly heard <br> 1 point if either more than or fewer than 5 taps are heard <br> 0 points if no taps are heard. | 2 |  |
| 11. I am going to say a word and I want you to give me its opposite. For example, if I said "hot," you would say "cold." <br> What is the opposite of "west"? <br> (Pause for a response.) <br> What is the opposite of "generous"? |  | 1 point for "east" <br> 1 point for "cheap," "stingy," "tight," "selfish," "greedy," "mean," "meager," or other correct antonym | 2 |  |
| TICS Total score <br> Total possible points $=41$ |  |  |  |  |

## IMPACT OF EVENTS SCALE-Revised (IES-R)

INSTRUCTIONS: Below is a list of difficulties people sometimes have after stressful life events. Please read each item, and then indicate how distressing each difficulty has been for you DURING THE PAST SEVEN DAYS with respect to $\qquad$
(event)
that occurred on $\qquad$ (date). How much have you been distressed or bothered by these difficulties?

|  | Not at all | Alittle bit | Moderately | Quite a bit | Extremely |
| :--- | :---: | :---: | :---: | :---: | :---: |
| 1. Any reminder brought back feelings <br> about it | 0 | 1 | 2 | 3 | 4 |
| 2. I had trouble staying asleep | 0 | 1 | 2 | 3 | 4 |
| 3. Other things kept making me think <br> about it. | 0 | 1 | 2 | 3 | 4 |
| 4. I felt irritable and angry | 0 | 1 | 2 | 3 | 4 |
| 5. I avoided letting myself get upset when <br> I thought about it or was reminded of it | 0 | 1 | 2 | 3 | 4 |
| 6. I thought about it when I didn't mean <br> to | 0 | 1 | 2 | 3 | 4 |
| 7. I felt as if it hadn't happened or wasn't <br> real. | 0 | 1 | 2 | 3 | 4 |
| 8. I stayed away from reminders of it. | 0 | 1 | 2 | 3 | 4 |
| 9. Pictures about it popped into my mind. | 0 | 1 | 2 | 3 | 4 |
| 10. I was jumpy and easily startled. | 0 | 1 | 2 | 3 | 4 |
| 11. I tried not to think about it. | 0 | 1 | 2 | 3 | 4 |
| 12. I was aware that I still had a lot of <br> feelings about it, but I didn't deal with <br> them. | 0 | 1 | 2 | 3 | 4 |
| 13. My feelings about it were kind of <br> numb. | 0 | 1 | 2 | 3 | 4 |
| 14. I found myself acting or feeling like I <br> was back at that time. | 0 | 1 | 2 | 3 | 4 |
| 15. I had trouble falling asleep. | 0 | 1 | 2 | 3 | 4 |
| 16. I had waves of strong feelings about <br> it. | 0 | 1 | 2 | 3 | 4 |
| 17. I tried to remove it from my memory. | 0 | 1 | 2 | 3 | 4 |
| 18. I had trouble concentrating. | 0 | 1 | 2 | 3 | 4 |
| 19. Reminders of it caused me to have <br> physical reactions, such as sweating, <br> trouble breathing, nausea, or a pounding <br> heart. | 0 | 1 | 2 | 3 | 4 |
| 20. I had dreams about it. | 0 | 1 | 2 | 2 | 4 |
| 21. I felt watchful and on-guard. | 0 | 1 | 2 | 3 | 4 |
| 22. I tried not to talk about it. | 0 | 1 | 2 | 3 | 4 |

Total IES-R Score:
INT: 1, 2, 3, 6, 9, 14, 16, 20
AVD: 5, 7, 8, 11, 12, 13, 17, 22
HYP: $4,10,15,18,19,21$
Weiss, D.S. (2007). The Impact of Event Scale-Revised. In J.P. Wilson, \& T.M. Keane (Eds.)
Assessing psychological trauma and PTSD: a practitioner's handbook (2 ${ }^{\text {nd }}$ ed., pp. 168-189). New York: Guilford Press.
AETR2N

## Revised Impact of Event Scale (22 questions):

The revised version of the Impact of Event Scale (IES-r) has seven additional questions and a scoring range of 0 to 88 .

On this test, scores that exceed 24 can be quite meaningful. High scores have the following associations.

## Score (IES-r) Consequence

| 24 or more | PTSD is a clinical concern. ${ }^{6}$ Those with scores this high <br> who do not have full PTSD will have partial PTSD or at <br> least some of the symptoms. |
| :---: | :--- |
| 33 and | This represents the best cutoff for a probable diagnosis <br> above <br> of PTSD. |
| 37 or more | This is high enough to suppress your immune <br> system's functioning (even 10 years after an impact <br> event). |

The IES-R is very helpful in measuring the affect of routine life stress, everyday traumas and acute stress

## References:

1. Horowitz, M. Wilner, N. \& Alvarez, W. (1979). Impact of Event Scale: A measure of subjective stress. Psychosomatic Medicine, 41, 209-218.
2. Weiss, D.S., \& Marmar, C.R. (1997). The Impact of Event Scale-Revised. In J.P. Wilson \& T.M. Keane (Eds.), Assessing Psychological Trauma and PTSD (pp.399-411). New York: Guilford.
3. Hutchins, E. \& Devilly, G.J. (2005). Impact of Events Scale. Victim's Web Site. http://www.swin.edu.au/victims/resources/assessment/ptsd/ies.html
4. Coffey, S.F. \& Berglind, G. (2006). Screening for PTSD in motor vehicle accident survivors using PSS-SR and IES. Journal of Traumatic Stress. 19 (1): 119-128.
5. Neal, L.A., Walter, B., Rollins, J., et al. (1994). Convergent Validity of Measures of PostTraumatic Stress Disorder in a Mixed Military and Civilian Population. Journal of Traumatic Stress. 7 (3): 447-455.
6. Asukai, N. Kato, H. et al. (2002). Reliability and validity of the Japanese-language version of the Impact of event scale-revised (IES-R-J). Journal of Nervous and Mental Disease. 190 (3): 175182.
7. Creamer, M. Bell, R. \& Falilla, S. (2002). Psychometric properties of the Impact of Event ScaleRevised. Behaviour Research and Therapy. 41: 1489-1496.
8. Kawamura, N. Yoshiharu, K. \& Nozomu, A. (2001) Suppression of Cellular Immunity in Men with a Past History of Post Traumatic Stress Disorder. American Journal of Psychiatry. 158: 484486

## The Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE; short version) ${ }^{1}$

This test is designed for use by professionals and patients able to speak English fluently.

## Instructions

This assessment is directed at the patient's carer, family member or friend and is designed for them to complete. Generally, this test is completed without interference by a doctor or nurse, but it can be talked through with them if they need clarification.

Please give them page 2 and 3 , and ask them to follow the instructions for completing the table.

Patient's name: $\qquad$
Date of birth: $\qquad$
Hospital number: $\qquad$

Name of person conducting assessment: $\qquad$
Job title: $\qquad$
Date of assessment: $\qquad$ 11 $\qquad$

## The assessment

Now we want you to remember what your friend or relative was like 10 years ago and to compare it with what he/she is like now. 10 years ago was 19_. On the next page are situations where this person has to use his/her memory or intelligence and we want you to indicate whether this has improved, stayed the same or got worse than in that situation over the past 10 years. Note the importance of comparing his/her present performance with 10 years ago. So if 10 years ago this person always forgot where he/she had left things and he/she still does this, then this would be considered 'Not much change'. Please indicate the changes you have observed by circling the appropriate answer.

| әS．IOM цэnW | $\begin{array}{r} \text { әSıom } \\ \text { I! } \mathrm{Q} ~ \end{array}$ | әбиецว чэnu ł0N | рәлодdu！ ！！$\forall$ | рәлодdu！ цэnw |  | 91 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| әSIOM цวnw | $\begin{array}{r} \text { OSIOM } \\ \text { H!q } \forall \end{array}$ | әбиецว чวnu 10N | pəлодdu！ ¥！$\forall$ | рәлодdu！ цэnџ |  <br>  | Gl |
| əs．IOM цכnW | $\begin{gathered} \text { ƏSIOM } \\ \text { I! } \forall \end{gathered}$ | әбиецว цวnu łoN | pəлодdu！ ！！ $9 \forall$ | рəлодdu！ цэnW |  | ャレ |
| $\begin{aligned} & \text { ӘSIOM } \\ & \text { yכnw } \end{aligned}$ | $\begin{array}{r} \text { ӘS.om } \\ \text { I! } \mathrm{Q} \end{array}$ | $\begin{array}{r} \text { әбиецэ } \\ \text { цэnu ¥оN } \end{array}$ | рәлодdu！ ！！ $9 \forall$ | рәлодdu！ บэnW |  | $\varepsilon \downarrow$ |
| $\begin{aligned} & \text { כSIOM } \\ & \text { yכnw } \end{aligned}$ | $\begin{array}{r} \text { əsıom } \\ \text { I! } \forall \end{array}$ | әбиецэ | рәлодdu！ ！$\downarrow \forall$ | рәлодdu！ цэnw | sıәпеш КерКıлә ио suo！s！эәр бu！чеW | てレ |
| əS．OM પગnW | $\begin{array}{r} \text { OSIOM } \\ \text { I! } \mathrm{Q} \forall \end{array}$ | әбиецว บэnu łoN | рəлодdu！ ！！ $9 \forall$ | рәлодdu！ цэnW | M 1 uo ı0 yooq e u！Kıołs e ¢u！ | ル |
| $\begin{aligned} & \text { ӘSIOM } \\ & \text { yכnw } \end{aligned}$ | $\begin{array}{r} \text { ӘS.OM } \\ \text { I! } \mathrm{Q} \end{array}$ | $\begin{array}{r} \text { әбиецэ } \\ \text { цэnu ¥оN } \end{array}$ | рәлодdu！ ！！ $9 \forall$ | рәлодdu！ บวnW |  | OL |
| əSIOM บכnw | $\begin{array}{r} \text { OSIOM } \\ \text { t! } \mathrm{O} \end{array}$ |  | рəлодdu！ ！！ $9 \forall$ | рәлодdu！ பэnW |  | 6 |
| әSIOM पכnW | $\begin{array}{r} \text { OSIOM } \\ \text { I! } \mathrm{Q} \forall \\ \hline \end{array}$ | әбиецว yכnu łoN | рәлодdu！ ！！ $9 \forall$ | рәлодdu！ บวnW |  | 8 |
| әSIOM บכnW | $\begin{array}{r} \text { ӘS.OM } \\ \text { I! } \mathrm{Q} ~ \end{array}$ | әбиецо yวnu lon | рәлодdu！ ！！ $9 \forall$ | рәлодdm！ บวnW |  | $L$ |
| $\begin{aligned} & \text { ƏSIOM } \\ & \text { yכnw } \end{aligned}$ | $\begin{array}{r} \text { əsıom } \\ \text { I! } \mathrm{Q} \end{array}$ | $\begin{aligned} & \text { әбиецэ } \\ & \text { цэnu ¥oN } \end{aligned}$ | рәлодdu！ ！！ $9 \forall$ | рәлодdu！ บэnW |  | 9 |
| әSIOM цכnW | $\begin{array}{r} \text { OSIOM } \\ \text { t! } \mathrm{Q} \forall \\ \hline \end{array}$ | әбиецว yonu lon | рәлодdu！ ！！ $9 \forall$ | рәлодdu！ บวnW |  | G |
| ƏS．JOM பכnW | $\begin{array}{r} \text { OSIOM } \\ \text { t! } \mathrm{O} \\ \hline \end{array}$ |  | рəлодdu！ ！！ $9 \forall$ | рәлодdu！ บวnW |  | t |
| əS．IOM บכnw | $\begin{array}{r} \text { OSIOM } \\ \text { t! } \mathrm{O} \end{array}$ |  | рәлодdu！ ！！ $9 \forall$ | рәлодdu！ цэnW |  | $\varepsilon$ |
| ƏS．IOM чכnW | $\begin{array}{r} \text { əsiom } \\ \text { I! } \mathrm{Q} \end{array}$ | әбueчэ чэnu ¥о | pəлодdu！ ！！ $9 \forall$ | рәлодdu！ บวnW |  | Z |
| $\begin{aligned} & \text { ӘSIOM } \\ & \text { yכnw } \end{aligned}$ | $\begin{array}{r} \text { ƏS.OM } \\ \text { I! } \mathrm{Q} \end{array}$ | $\begin{aligned} & \text { әбиецэ } \\ & \text { цэnu ¥оN } \end{aligned}$ | рәлодdu！ H！ $9 \forall$ | рәлодdm！ บวnW |  | $\downarrow$ |
| S | † | $\varepsilon$ | Z | $\downarrow$ |  |  |

[Do not leave this section with the patient's carer, family member or friend]

## Patient's name:

Date of birth: $\qquad$

## Scoring the test

1 = Much improved
2 = A bit improved
3 = Not much change
4 = A bit worse
5 = Much worse

|  | Score for this question |
| :--- | :--- |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |
| 7 |  |
| 8 |  |
| 9 |  |
| 10 |  |
| 11 |  |
| 12 |  |
| 13 |  |
| 14 |  |
| 15 |  |
| 16 |  |

Total score


To score the test, add up the result of each question (ie if 'Much improved' the result is 1 for that question), then divide this number by the total number of questions.

Record the final score of the test in the box below and also add this score to the patient's cognitive assessment record form.

Sum of the results of all of the questions
The total number of questions
16
Please add the score to the patient's cognitive assessment record form and go to table 3 in 'An introduction to the cognitive tests' for the cut-off point for a positive result. To determine the next steps required, please refer to the cognitive screening algorithm, which can be found in 'An introduction to the cognitive tests' or in the consensus statement.

## Reference

1. Jorm AF. A short form of the Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE): development and cross-validation. Psychol Med 1994; 24: 145-153.

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This toolkit is supported by an educational grant from Shire Pharmaceuticals Ltd.
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Appendix 5. This appendix was part of the submitted manuscript and has been peer reviewed. It is posted as supplied by the authors

## Regression analysis MMSE at discharge

|  |  |  |  |  | icient |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | tandardized | oefficients | Standardized Coefficients |  |  | 95.0\% Confiden | Interval for B | Collinearity | stics |
|  |  | B | Std. Error | Beta | t | Sig. | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 3.312 | . 027 |  | 123.456 | . 000 | 3.259 | 3.365 |  |  |
|  | CAMStatus | -. 129 | . 045 | -. 277 | -2.892 | . 005 | -. 218 | -. 041 | 1.000 | 1.000 |
| 2 | (Constant) | 3.550 | . 086 |  | 41.448 | . 000 | 3.380 | 3.720 |  |  |
|  | CAMStatus | -. 127 | . 044 | -. 271 | -2.911 | . 004 | -. 213 | -. 040 | . 988 | 1.012 |
|  | Age | -. 004 | . 001 | -. 244 | -2.620 | . 010 | -. 006 | -. 001 | . 986 | 1.014 |
|  | Gender | -. 050 | . 042 | -. 111 | -1.186 | . 239 | -. 133 | . 033 | . 983 | 1.017 |

a. Dependent Variable: LNMMSE

Bootstrap for Coefficients

| Model |  | B | Bootstrap ${ }^{\text {a }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bias | Std. Error | Sig. (2-tailed) | BCa 95\% Confidence Interval |  |
|  |  | Lower |  |  | Upper |
| 1 | (Constant) |  | 3.312 | . 000 | . 014 | . 001 | 3.278 | 3.341 |
|  | CAMStatus | -. 129 | -. 003 | . 057 | . 041 | -. 263 | -. 026 |
| 2 | (Constant) | 3.550 | . 002 | . 078 | . 001 | 3.429 | 3.720 |
|  | CAMStatus | -. 127 | -. 003 | . 054 | . 030 | -. 244 | -. 033 |
|  | Age | -. 004 | -1.534E-5 | . 001 | . 014 | -. 007 | -. 001 |
|  | Gender | -. 050 | -. 001 | . 044 | . 258 | -. 134 | . 037 |

a. Unless otherwise noted, bootstrap results are based on 1000 bootstrap samples

Appendix 6. This appendix was part of the submitted manuscript and has been peer reviewed. It is posted as supplied by the authors

## Regression analysis IES 12 months (Ln-transformed)

| Coefficients ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Model |  | Unstandardized Coefficients |  | Standardized <br> Coefficients <br> Beta | t | Sig. | 95.0\% Confidence Interval for B |  | Collinearity Statistics |  |
|  |  | B | Std. Error |  |  |  | Lower Bound | Upper Bound | Tolerance | VIF |
| 1 | (Constant) | 2.023 | . 438 |  | 4.616 | . 000 | 1.142 | 2.904 |  |  |
|  | CAMStatus | . 593 | . 301 | . 274 | 1.969 | . 055 | -. 012 | 1.199 | . 935 | 1.070 |
|  | Apache | . 026 | . 021 | . 177 | 1.269 | . 211 | -. 015 | . 068 | 935 | 1.070 |

a. Dependent Variable: LNIES12

Bootstrap for Coefficients

| Model |  | B | Bootstrap ${ }^{\text {a }}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Bias | Std. Error | Sig. (2-tailed) | BCa 95\% Confidence Interval |  |
|  |  | Lower |  |  | Upper |
| 1 | (Constant) |  | 2.023 | . 003 | . 459 | . 001 | 1.134 | 2.960 |
|  | CAMStatus | . 593 | . 004 | . 300 | . 056 | . 018 | 1.169 |
|  | Apache | . 026 | -. 001 | . 020 | . 159 | -. 016 | . 062 |

a. Unless otherwise noted, bootstrap results are based on 1000 bootstrap samples

