## Honolulu Heart Program Examination 4 Coding Manual

DSN: CASI
SAS NAME: CASI
NUMBER OF RECORDS 3845
PROGRAM: LCA1MGH.SAS.HONOLULU.CASI.PROGRAM.MAY00

| Pg/Q\# | Variable | Description | Freq | Codes |
| :---: | :---: | :---: | :---: | :---: |
|  | IDP UBLIC | IDENTIFICATION NUMBER |  | 90009-99884 |
|  |  | * MODIFIED TO PROTECT CONFIDENTIALITY |  |  |
|  | CASI1 |  |  | $N=3734$ <br> Nmiss=111 |
|  |  | EXAM4: MODULE1 CASI SCORE |  | Minimum $=0.00$ |
|  |  |  |  | Maximum $=100.00$ |
|  |  |  |  | Mean=82.24 |
|  |  |  |  | Std Dev=16.37 |
| 33/ | CASITECH |  |  | 2-digit staff ID number |
|  |  | Interview er ID |  |  |
| $33 /$ | CASIEDU | EDUCATION (years of schooling completed) |  | $\begin{aligned} & \mathrm{n}=3690 \mathrm{nmiss}=155 \\ & \min =0 \quad \max =24 \\ & \mathrm{mean}=10.47 \text { std }=3.24 \end{aligned}$ |
| $33 /$ | CASISTHH CASISTM M | Testing start time (24 hour time) |  | hour minute |
| 33/1 | CASIBPL | WHERE WERE YOU BORN? City (Town/Village) State/Prefecture $\left[\begin{array}{ll}0 & 1 \\ {[0} & 1\end{array}\right]$ | $\begin{array}{r} 142 \\ 347 \\ 1 \\ 205 \\ 27 \end{array}$ | $\begin{aligned} & .=\text { missing/don't know } \\ & 2=\text { Answered both corre ctly } \\ & 1=\text { One of the answer was } \\ & \text { wrong } \\ & 0=\text { Answered both wrong } \end{aligned}$ |
| 33/2 | CASIBYR | WHEN WERE YOU BORN? (Year) | $\begin{array}{r} 143 \\ 362 \\ 1 \\ 13 \\ 68 \end{array}$ | $\begin{aligned} & =\text { missing/don't know } \\ & 2=A \text { ccurate } \\ & 1=M \text { issed by } 1-3 \text { years } \\ & 0=M \text { issed by }>3 \text { years } \end{aligned}$ |
| 33/2a | CASIBDAY | WHEN WERE YOU BORN? <br> Month <br> Date <br> $\left[\begin{array}{ll}0 & 1\end{array}\right]$ | $\begin{array}{r} 143 \\ 359 \\ 7 \\ 41 \\ 64 \end{array}$ | ```. = missing/don't know 2 = A nsw ered both correctly 1 = One of the answer was wrong 0 = Answered both wrong``` |
| 33/3 | CASIAGE | HOW OLD ARE YOU? | $\begin{array}{r} 143 \\ 345 \\ 3 \\ 131 \\ 118 \end{array}$ | $\begin{aligned} & =\text { missing/don't know } \\ & 2=A \text { ccurate } \\ & 1=M \text { issed by } 1-3 \text { years } \\ & 0=M \text { issed by }>3 \text { years } \end{aligned}$ |
| 33/4 | CASIMNT | HOW MANY MINUTES ARE THERE IN AN HOUR? or HOW MANY DAYS ARE THERE IN A YEAR? | $\begin{array}{r} 142 \\ 359 \\ 2 \end{array}$ | . = missing/don't know 2 = Answered either que stion correctly $0=$ Wrong answer |

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| Pg/Q\# | Variable | Description | Freq | Codes |
| :---: | :---: | :---: | :---: | :---: |
| 33/5 | CASISUN | IN WHAT DIRECTION DOES THE SUN SET? | $\begin{array}{r} 142 \\ 354 \\ 2 \\ 461 \end{array}$ | $\begin{aligned} & \dot{=}=\text { missing/don't know } \\ & 2=\text { Correct answer } \\ & 0=\text { Wrong answer } \end{aligned}$ |
| 33/6 | CASIVRS | SELECT VERSION \#. | $\begin{array}{r} 141 \\ 168 \\ 7 \\ 101 \\ 7 \\ 100 \\ 0 \end{array}$ | . = missing/don't know 1 = SHIRT, BROWN, HONESTY <br> 2 = SHOES, BLACK, MODESTY <br> 3 = SOCKS, BLUE, <br> CHARITY |
| 33/6a | CASIRGS 1 | I AM GOING TO SAY 3 WORDS FOR YOU TO REMEMBER. REPEAT THEM AFTER I HAVE SAID ALL THREE. | $\begin{array}{r} 144 \\ 300 \\ 7 \\ 419 \\ 125 \\ 150 \end{array}$ | $\begin{aligned} & \dot{3}=\text { missing/don't know } \\ & 3=\text { All correct } \\ & 2=\text { One wrong } \\ & 1=\text { Two wrong } \\ & 0=\text { All wrong } \end{aligned}$ |
| 33/6b | CASIRGS2 | If participant can't answer the first time, elaborate and repeat up to a total of 3 times. Score last performance. | $\begin{array}{r} 148 \\ 353 \\ 3 \\ 69 \\ 30 \\ 65 \end{array}$ | $\begin{aligned} & \dot{3}=\text { missing/don't know } \\ & 3=\text { All correct } \\ & 2=\text { One wrong } \\ & 1=\text { Two wrong } \\ & 0=\text { All wrong } \end{aligned}$ |
| 33/7 | CASIDBA | I SHALL SAY SOME NUMBERS, AND YOU REPEAT WHAT IWAY BACKWARDS. FOR EXAMPLE, IF I SAY 1-2, YOU REPEAT WHAT I SAY BACKWARDS 1-2-3 | $\begin{array}{r} 145 \\ 354 \\ 0 \\ 160 \end{array}$ | $\begin{aligned} & \dot{1}=\text { missing/don't know } \\ & 1=\text { Correct } \\ & 0=\text { Wrong } \end{aligned}$ |
| 33/7a | CASIDBB | 6-8-2 | $\begin{array}{r} 145 \\ 257 \\ 6 \\ 112 \\ 4 \end{array}$ | $\begin{aligned} & \text { = missing/don't know } \\ & 2=\text { Correct } \\ & 0=\text { Wrong } \end{aligned}$ |
| 33/7b | CASIDBC | 3-5-2-9 | $\begin{array}{r} 145 \\ 229 \\ 0 \\ 141 \\ 0 \end{array}$ | $\begin{aligned} & \text { = missing/don't know } \\ & 2=\text { Correct } \\ & 0=\text { Wrong } \end{aligned}$ |
| 33/8 | CASIRC1A | WHAT THREE WORDS DID I ASK YOU TO REMEMBER EARLIER? | $\begin{array}{r} 146 \\ 186 \\ 5 \\ 838 \\ 518 \\ 478 \end{array}$ | $\begin{aligned} & \dot{=}=\text { missing/don't know } \\ & 3=\text { Spontaneous recall } \\ & 2=\text { After: "One word was } \\ & \text { som ething to wear" } \\ & 1=\text { After: "Was it SHOES, } \\ & \text { SHIRT, or SO CKS"? } \\ & 0=\text { Still incorrect } \end{aligned}$ |

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| :---: | :---: | :---: | :---: | :---: |
| 33/8a | CASIRC1B | WHAT THREE WORDS DID I ASK YOU TO REMEMBER EARLIER? | $\begin{array}{r} 146 \\ 214 \\ 4 \\ 676 \\ 403 \\ 476 \end{array}$ | . = missing/don't know <br> 3 = Spontane ous recall <br> 2 = After: "One word was a color" <br> $1=$ After: "Was it BLUE, <br> BLACK, or BROWN"? <br> $0=$ Still incorrect |
| 33/8c | CASIRC1C | WHAT THREE W ORDS DID I ASK YOU TO REMEMBER EARLIER? | $\begin{array}{r} 146 \\ 117 \\ 6 \\ 249 \\ 138 \\ 1 \\ 893 \end{array}$ | $\begin{aligned} & \text { = missing/don't know } \\ & 3=\text { S pontane ous recall } \\ & 2=\text { After: "One word was a } \\ & \text { good personal quality" } \\ & 1=\text { A fter: WW as it } \\ & \text { HONE STY, CHARITY, or } \\ & \text { MODE STY'"? } \\ & 0=\text { Still incorrect } \end{aligned}$ |
| 34/9a | CASISB3A | FROM 100, TAKE AWAY 3 , = HOW MANY? | $\begin{array}{r} 146 \\ 350 \\ 6 \\ 193 \end{array}$ | $\begin{aligned} & j=\text { missing/don't know } \\ & 1=\text { Correct answer } \\ & 0=\text { Wrong answer } \end{aligned}$ |
| 34/9b | CASISB3B | AND TAKE AWAY 3 FORM THAT EQUALS? | $\begin{array}{r} 147 \\ 307 \\ 7 \\ 621 \end{array}$ | $\begin{aligned} & =\text { missing/don't know } \\ & 1=\text { Correct answer } \\ & 0=\text { Wrong answer } \end{aligned}$ |
| 34/9c | CASISB3C | AND TAKE AWAY 3 AGAIN EQUALS? | $\begin{array}{r} 146 \\ 255 \\ 5 \\ 704 \\ 177 \\ 263 \end{array}$ | = missing/don't know 3 = 3 correct answers 2 = 2 correct answers $1=1$ correct answer $0=$ no correct answer |
| 34/10 | CASIYR | WHAT IS TODAY'S DATE? [YEAR] | $\begin{array}{r} 147 \\ 349 \\ 4 \\ 31 \\ 11 \\ 162 \end{array}$ | $\begin{aligned} & =\text { missing/don't know } \\ & 4=A \text { ccurate } \\ & 2=M i s s e d \text { by } 1 \text { year } \\ & 1=M \text { issed by } 2-5 \text { years } \\ & 0=M \text { issed }>=6 \text { years } \end{aligned}$ |
| 34/10a | CASIMO | WHAT IS TODAY'S DATE? [MONTH] | $\begin{array}{r} 148 \\ 345 \\ 7 \\ 61 \\ 179 \end{array}$ | $\begin{aligned} & =\text { missing/don't know } \\ & 2=A \text { ccurate } \\ & 1=M \text { issed by } 1 \mathrm{month} \\ & 0=M \text { issed }>=2 \text { month } \end{aligned}$ |
| 34/10b | CASIDATE | WHAT IS TODAY'S DATE? [DATE] | $\begin{array}{r} 148 \\ 298 \\ 4 \\ 324 \\ 87 \\ 302 \end{array}$ | ```. = missing/don't know 3 (of the month) A ccurate 2 = Missed 1 or 2 days 1 = Missed 3-5 days 0 = Missed >=6 days``` |

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| Pg/Q\# | Variable | Description | Freq | Codes |
| :---: | :---: | :---: | :---: | :---: |
| 34/11 | CASIDAY | WHAT DAY OF THE WEEK IS TODAY? | $\begin{array}{r} 148 \\ 340 \\ 8 \\ 289 \end{array}$ | $\begin{aligned} & =\text { missing/don't know } \\ & 1=\text { Accurate } \\ & 0=\text { M issed by > } 1 \text { month } \end{aligned}$ |
| 34/12 | CASISSN | WHAT SEASON ARE WE IN? | $\begin{array}{r} 148 \\ 336 \\ 1 \\ 336 \end{array}$ | $\begin{aligned} & \dot{=}=\text { missing/don't know } \\ & 1=A c c u r a t e \text { with in } 1 \text { month } \\ & 0=M \text { issed by }>1 \text { month } \end{aligned}$ |
| 34/13a | CASISPA | WHAT $\qquad$ ARE WE IN? <br> State $\left[\begin{array}{ll} 0 & 2] \end{array} \begin{array}{ll} {[0} & 2 \end{array}\right]$ | $\begin{array}{r} 148 \\ 350 \\ 9 \\ 133 \\ 55 \end{array}$ | ```. = missing/don't know 4 = Both correct 2 = Answered either one corre ctly 0 = Both wrong``` |
| 34/13b | CASISPB | IS TH IS PLACE A HO SPITAL (CLINIC), A STORE, OR HOME? | $\begin{array}{r} 148 \\ 350 \\ 5 \\ 192 \end{array}$ | $\begin{aligned} & =\text { missing/don't know } \\ & 1=\text { Correct } \\ & 0=\text { Wrong } \end{aligned}$ |
| 34/14 | CASIANML | WHAT ANIMALS HAVE 4 LEGS? TELLME AS MANY AS YOUCAN. | $\begin{array}{r} 148 \\ 54 \\ 23 \\ 45 \\ 77 \\ 181 \\ 294 \\ 364 \\ 485 \\ 513 \\ 446 \\ 121 \\ 5 \end{array}$ | ```= missing/don't know correct answer 1 2 3 4 \\ 5 \\ 6 7 \\ 8 \\ 8 9 \\ 10``` |

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| :---: | :---: | :---: | :---: | :---: |
| 34/17b | CASIRPTB | $\begin{aligned} & \text { "THIS YELLOW CIRCLE } \\ & \text { IS HEAVIER THAN } \\ & \text { BLUE SQUARE" } \end{aligned}\left[\begin{array}{ll} {\left[\begin{array}{ll} 0 & 1 \end{array}\right]} \\ {\left[\begin{array}{ll} 0 & 1 \end{array}\right]} \end{array}\right.$ | $\begin{array}{r} 150 \\ 103 \\ 9 \\ 123 \\ 1 \\ 670 \\ 755 \end{array}$ | = missing/don't know $3=$ number of correct answers $2=$ $1=$ $0=$ |
| 35/18 | CASIREAD | PLEASE DO THIS: <br> (Point to statem ent "RAISE Y OUR HAND") | $\begin{array}{r} 150 \\ 332 \\ 5 \\ 249 \\ 60 \\ 61 \end{array}$ | . = missing/don't know <br> 3 = Raises had without <br> prompting <br> 2 = Raises hand after prompting <br> 1 = Reads correctly, but does not raise hand $0=$ Neither reads nor obeys |
| 35/19 | CA SIW RIT | LET ME HAVE A SAMPLE OF YOUR HANDWRITING. PLEASE WRITE: (HE) WOULD LIKE TO GO HOME. | $\begin{array}{r} 152 \\ 110 \\ 21 \\ 143 \\ 292 \\ 658 \\ 246 \\ 9 \end{array}$ | $\begin{aligned} & \dot{0}=\text { missing/don't know } \\ & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \end{aligned}$ |
| 35/20 | CASIDRA W |  | $\begin{array}{r} 151 \\ 59 \\ 12 \\ 10 \\ 3 \\ 26 \\ 22 \\ 46 \\ 85 \\ 273 \\ 406 \\ 275 \\ 2 \end{array}$ | $\begin{aligned} & \dot{0} \text { missing/don't know } \\ & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \\ & 6 \\ & 7 \\ & 8 \\ & 9 \\ & 10 \end{aligned}$ |
| 35/21 | CASICMD | TAKE THIS PAPER WITH YOUR $\begin{array}{lll} \text { L (R) HAND } & {\left[\begin{array}{ll} 0 & 1 \end{array}\right]} \\ \text { FOLD IT HALF, AND } & \\ \text { HAND IT BACK TO ME } & {\left[\begin{array}{ll} 0 & 1 \end{array}\right]} \end{array}$ | $\begin{array}{r} 149 \\ 61 \\ 110 \\ 551 \\ 297 \\ 4 \end{array}$ | $\begin{aligned} & \text { } \\ & 0 \\ & 1 \\ & 2 \\ & 3 \end{aligned}$ |

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| Pg/Q\# | Variable | Description | Freq | Codes |
| :---: | :---: | :---: | :---: | :---: |
| 35/22a | CASIRC2A | WHAT THREE W ORDS DID I ASK YOU TO REMEMBER EARLIER? | $\begin{array}{r} 149 \\ 204 \\ 7 \\ 798 \\ 475 \\ 376 \end{array}$ | $\begin{aligned} & \dot{=}=\text { missing/don't know } \\ & 3=\text { Spontaneous recall } \\ & 2=\text { After: "One word was } \\ & \text { som ething to we ar" } \\ & 1=\text { After: "Was it SHOES, } \\ & \text { SH IRT, or SO CK S"? } \\ & 0=\text { Still incorrect } \end{aligned}$ |
| 35/22b | CASIRC2B | What three words did I Ask you to REMEMBER EARLIER? | $\begin{array}{r} 149 \\ 249 \\ 88 \\ 559 \\ 279 \\ 360 \end{array}$ | = missing/don't know <br> 3 = Spontane ous recall <br> 2 = After: "One word was a color" <br> 1 = After: "Was it BLUE, <br> BLACK, or BROWN"? <br> $0=$ Still incorrect |
| 35/22c | CASIRC2C | WHAT THREE W ORDS DID I ASK YOU TO REMEMBER EARLIER? | $\begin{array}{r} 149 \\ 177 \\ 4 \\ 260 \\ 109 \\ 4 \\ 568 \end{array}$ | . = missing/don't know <br> 3 = Spontane ous recall <br> 2 = After: "One word was a <br> good personal quality" <br> 1 = A fter: "W as it <br> HONE STY, CHARITY, or MO DE STY"? <br> $0=$ Still incorrect |
| 35/23 | CASIBOD Y | WHAT DO WE CALL THIS PART OF THE FACE/BODY | $\begin{array}{r} 149 \\ 294 \\ 4 \\ 472 \\ 169 \\ 55 \\ 28 \\ 28 \end{array}$ | $\begin{aligned} & \dot{5} \\ & 4 \\ & 4 \\ & 3 \\ & 2 \\ & 1 \\ & 0 \end{aligned}$ |
| 35/24a | CASIOBJA | WHAT IS THIS? | $\begin{array}{r} 149 \\ 362 \\ 9 \\ 37 \\ 30 \end{array}$ | ```= missing/don't know 2``` |
| 35/24b | CASIOBJB | WHAT IS THIS? | 149 361 7 35 12 32 | $\begin{aligned} & \dot{3} \\ & 3 \\ & 2 \\ & 1 \\ & 0 \end{aligned}$ |

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| Pg/Q\# | Variable | Description | Freq | Codes |
| :---: | :---: | :---: | :---: | :---: |
| $35 / 24 \mathrm{c}$ | CASIRPN M | Total number of objects either named spontaneously or repeated correctly after coaching. | $\begin{array}{r} 150 \\ 19 \\ 4 \\ 8 \\ 15 \\ 38 \\ 361 \end{array}$ | $\begin{aligned} & \text { = missing/don't know } \\ & 0 \\ & 1 \\ & 2 \\ & 3 \\ & 4 \\ & 5 \end{aligned}$ |
| 35/25 | $\begin{aligned} & \text { CASIRCO } \\ & \text { B } \end{aligned}$ | REMEMBER THESE 5 OBJECTS! (Wait for 5 sec.; cover, then ask:) WHAT 5 OBJECTS DID I JUSTSHOW YOU? | $\begin{array}{r} 149 \\ 191 \\ 4 \\ 116 \\ 7 \\ 380 \\ 104 \\ 42 \\ 89 \end{array}$ | $\begin{aligned} & . \\ & 5 \\ & 4 \\ & 3 \\ & 2 \\ & 1 \\ & 0 \end{aligned}$ |
| 35/ | CASIFNHH CASIFNM M | Finish time |  | Hour <br> Minute |
| 35/ | CASIDUR A | Duration minutes |  | $\begin{aligned} & \mathrm{n}=3703 \mathrm{nmiss}=142 \\ & \min =3 \mathrm{max}=46 \text { (minutes) } \\ & \text { mean }=13.08 \text { std }=4.79 \end{aligned}$ |
| 35/ | CASIVAL | VALIDITY OF SCORE | $\begin{array}{r} 132 \\ 326 \\ 9 \\ 145 \\ 24 \\ 12 \\ 111 \\ 49 \\ 13 \\ 90 \end{array}$ | . = missing/don't know <br> $1=\mathrm{V}$ alid <br> 2 = Probably invalid: poor hearing <br> 3 = Probably invalid: poor eyesight <br> $4=$ Probably invalid: <br> impaired motor <br> contro <br> 5 = Probably invalid: <br> language barrier <br> 6 = Probably invalid: <br> impaired alertness <br> or <br> attentiveness <br> 7 = Probably invalid: <br> significant phys <br> mental discom fort <br> 8 = Probably invalid: other reasons |

Adbtiond questiansasked beforetheCAS

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| Pg/Q\# | Variable | Description | Freq | Codes |
| :---: | :---: | :---: | :---: | :---: |
|  | CASIQ1 | Is this a good day, a bad day, or any average day? | $\begin{array}{r} 121 \\ 210 \\ 4 \\ 62 \\ 143 \\ 7 \\ 30 \end{array}$ | $\begin{aligned} & j=\text { missing/don't know } \\ & 1=\text { good } \\ & 2=\text { bad } \\ & 3=\text { average } \\ & 9=\text { unable to answer } \end{aligned}$ |
|  | CASIQ2A | Why does it seem like a bad day? - physical reasons | $\begin{array}{r} 379 \\ 0 \\ 30 \\ 25 \end{array}$ | $\begin{aligned} & \dot{0}=\text { missing/don't know } \\ & 0=\text { no } \\ & 1=\text { yes } \end{aligned}$ |
|  | CASIQ2B | Why does it seem like a bad day? emotional reasons | $\begin{array}{r} 379 \\ 3 \\ 44 \\ 8 \end{array}$ | $\begin{aligned} & \dot{0}=\text { missing/don't know } \\ & 0=\text { no } \\ & 1=\text { yes } \end{aligned}$ |
|  | CASIQ2C | Why does it seem like a bad day? - other reasons | $\begin{array}{r} 379 \\ 2 \\ 28 \\ 25 \end{array}$ | $\begin{aligned} & \dot{=}=\text { missing/don't know } \\ & 0=\text { no } \\ & 1=\text { yes } \end{aligned}$ |
|  |  | (not in questionnaire but saved in SAS file) |  |  |
|  | CASISEL | Selected to participate Mod II | $\begin{array}{r} 111 \\ 267 \\ 1 \\ 106 \end{array}$ | $\begin{aligned} & \dot{=}=\text { missing/don't know } \\ & 0=\text { No } \\ & 1=\text { Yes } \end{aligned}$ |
|  | CASIDEC | Sam pling probability |  | 2-dig it |
|  | CASIRAN | Random Number used for Mod II selection |  | 2-dig it |
|  | CASITAGE | True age at CASI exam |  | $\begin{aligned} & \mathrm{n}=3734, \mathrm{nmiss}=111 \\ & \min =71 \mathrm{max}=93 \\ & \mathrm{mean}=77.83 \text { std=4.67 } \end{aligned}$ |
| 36/ |  | Page 36 is part of CASI form (no variable on this page) |  |  |

CASI (Cognitive Abilities ScreeningInstrument)
Mbst knouledgeable persons: Dr. Lon White, D. Kamal Masak, Dr. Evelyn Teng(USC),
Darryl Chiu
Evelyn L Teng PhD.
Department of Neurology
USC-School of Medicine

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Pg/Q\# Variable Description Freq Codes

2025 Zonal Ave
Los Angeles, CA 90033

DataEntry: Data was entered by the same lab tech twice while the participant was still in clinic. The first data entry program was written by Jim Hughes (University of Washington). This program was used until December 1991. Since then HHP used another program witten by Darryl Chiu.
(1) Total number of CASI ( $\mathrm{n}=3735$ ), clinic interview, home visit, excluding long phone interview.
(2) 63 participants had long phone interviewCASI tests. Since the interviewers could not ask the participants to performwriting and drawing, etc, the tests are incomplete. These 63 CASI tests were not incuded in data file. They are stored in a separate file CASIPHONALL.

SAS input programwas written by Darryl Chiu
ref paper:
TENGEL et. al. The Cognitive Abilities Screening Instrument (CASI): A Practical Test for
Cross-Gultural Epidemiological Studies of Dementia. Intemational Psychogeriatrics,
Vol 6, No 1, 1994

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Pg/Q\# Variable Description Freq Codes

CASI soore issumof the following 9 components (domain soores):

```
*---- CASI ----;
MEMLONG = SUM(BPL,BYR,BDAY,MNT,SUN);
MEMSHORT = SUM(.5*RC1A. 5*RC1B,.5*RC1C,5*RC2A,.5*RC2B,5*RC2C,.6*RCOBJ);
ATTENTN = SUM(RGS1,RPTARPTB);
MANPCON = SUM(DBA,DBB,DBC,SUB3A,SUB3B,SUB3C);
ORIENTN = SUM(AGE,YR,MO,DATE,DAY,SSNSPA,SPB);
DRAWING=DRAW;
JUDGABS = SUM(SIM,JGMT);
WORDFLUN = ANML;
LANGUAGE = SUM(.5*READ,.5*WRITE,.3*BODY,.3*OBJA,. 3*OBJB,CMD);
CASI = SUM(MEMLONG,MEMSHORT,ATTENTN,MANIPCON,ORIENTN,DRAWING,
    JUDGABS,WORDFLUNLANGUAGE);
```

Use the following programto compute MMSE, 3MSE and Hasegawa score.
*---- MMSE (Mini-Mental State Examination)----;
IF RC1A=3 THEN MMRC1A=1; ELSE MMRC1A=0;
IF RC1B $=3$ THEN MMRC1B $=1$; ELSEMMRC1B $=0$;
IF RC1C $=3$ THEN MMRC1C $=1$; ELSEMMRCIC $=0$;
IF YR=4 THEN MMYR $=1$; ELSEMMYR $=0$;
IF MO=2 THEN MMMO $=1$; ELSE MMMO $=0$;
IF DATE $=3$ THENMMDATE $=1$; ELSE MMDATE $=0$;
IF RPTB $=3$ THEN MMRPTB $=1$; ELSE MMRPTB $=0$;
IF READ $=3$ THENMMREAD $=1$; ELSE MMREAD $=0$;
IF WRITE $=5$ THENMMWRITE $=1$; ELSEMMWRITE $=0$;
IF $8<=$ DRAW $<=10$ THEN MMDRAW $=1$; ELSE MMDRAW $=0$;
MMSE=SUMRGS1,DBA,DBB,DBC,MMRC1A,MMRC1B,MMRC1C,MMYR,MMMO,MMDATE, DAY,SSN,SPA,SPB,MMRPTB,MMREAD,MMWRITE,MMDRAW,CMD,OBJA);
*---- 3MSE (Modified Mini-Mental State Examination) ----;
IF BYR=2 THEN THBYR=1; ELSE THBYR=0;
THREEMSE=SUM(BPL,THBYR,BDAY,RGS1,2*DBA,DBB,1.5*DBC,RC1A,RC1B,RC1C,
2*YR,MO,DATE,DAY,SSN,SPA,SPB,ANML,SIM,RPTA,RPTB,
READ,WRITE,DRAW,CMD,RC2A,RC2B,RC2C,BODY);
*---- HASEGAWA(Hasegawa Dementia Screening Scale) ----;
IF $1<=$ BPL $<=2$ THEN $H B P L=2$; ELSEHBPL=0;
IF BYR=2 THEN HBYR=1.5; ELSE HBYR=BYR;
IF $1<=A G E<=2$ THENHAGE $=2$; ELSE HAGE $=0$;
IF MNT=2 THENHMNT=2.5; ELSE HMNT=0; IF SUN=2 THENHSUN=3; ELSE HSUN=0;
IF YR=4 THEN HYR $=1$; ELSE HYR=0;
IF MO=2 THEN HMO $=1$; ELSE HMO $=0$;
IF DATE $=3$ THENHDATE $=1.5$; ELSE HDATE $=0$;
IF $0<=$ RCOBJ $<=1$ THENHRCOBJ $=0 ;$ ELSE HRCOBJ $=$ RCOBJ - 1.5;

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Pg/Q\# Variable Description Freq Codes
HASEGAWA=SUM(HBPL,HBYR,BDAY,HAGE,HMNT,HSUN,DBB,DBC,2*SUB3A,2*SUB3B,
HYR,HMO,HDATE,DAY,SSN,2.5*SPB,HRCOBJ);

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Pg/Q\# Variable Description Freq Codes

## SelectionfromModule I to Module II

Table 1. Sampling Probability Table 2. Exam4 Population, Module I (excluding phone interveiws, $\mathrm{N}=3741$ )

| Age at <br> Exam4 | CASI score |  |  |
| :---: | :---: | :---: | :---: |
|  | $<74$ | $74-81.9$ | 82 |
| $70-74$ | $100 \%$ | $17 \%$ | $3 \%$ |
| $75-79$ | $100 \%$ | $21 \%$ | $4 \%$ |
| $80-84$ | $100 \%$ | $43 \%$ | $14 \%$ |
| 85 | $100 \%$ | $100 \%$ | $100 \%$ |


| Age at <br> Exam4 | CASI score |  |  |
| :---: | :---: | :---: | :---: |
|  | $<74$ | $74-81.9$ | 82 |
| $70-74$ | 61 | 127 | 897 |
| $75-79$ | 168 | 254 | 1107 |
| $80-84$ | 151 | 148 | 408 |
| 85 | 214 | 87 | 119 |

Each participant was assigned a2-dgit randomnumber. He was selected if therandomnumber is less than the sampling probability (\%) listed on Table 1. If the random number is greater than or equal to the sampling probability, he was not selected. The sampling probability was estimated before Exam4 started.

Note: Variable CASIDEC in SAS file is the sampling probabilty in Table 1.
Variable CASISEL ( $=$ yes, $0=\mathrm{No}$ ) is the indicator variable for selecting to Mbdule II.
Table2. istheExam4 moduleI pquilation, exdudinglong phoneinterviens.
Table 3. is the number of participants selected for Module II Examination.
Table 4. is the number of participants had retumed for Module II Examination. The reason of discrepancies between Table 3 and Table4 issome partiapants refused to return or diedbefore they couldhave returned for Mbdule II examination

Table 3. Number of men $(\mathrm{N}=1063)$ selected to paticipateMbdule II

| Age at <br> Exam4 | CASI score |  |  |
| :---: | :---: | :---: | :---: |
|  | $<74$ | $74-$ <br> 81.9 | 82 |
| $70-74$ | 60 | 16 | 32 |
| $75-79$ | 166 | 56 | 49 |
| $80-84$ | 149 | 68 | 53 |
| 85 | 211 | 87 | 116 |

Table 4. Number ofmen ( $\mathrm{N}=934$ ) actually participatedModule II

| Age at <br> Exam4 | CASI score |  |  |
| :---: | :---: | :---: | :---: |
|  | $<74$ | $74-$ <br> 81.9 | 82 |
| $70-74$ | 52 | 13 | 28 |
| $75-79$ | 142 | 52 | 45 |
| $80-84$ | 129 | 61 | 51 |
| 85 | 181 | 78 |  |

## Honolulu Heart Program Examination 4 Coding Manual

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