## *Cohort, Exam 4*

**Ultrasound data**
**Reader Trend Adjusted Shifted Variables for Far Wall Thickness**

Similar to reader trend adjusted derived variables but includes a race/sex/site specific constant added at visit 4 (and also at visit2, visit3 old equipment, at visit3 new equipment) to make mean wall thickness the same as at visit1 for the same race/sex/site/age/BMI.

| Variable Name | Description |
|---|---|
| ID | ARIC SUBJECT ID (CIR) |
| LBIDJS45 | Imputed R/T adjusted av45, shifted, LBI |
| LBIDWT45 | Weight for LBIDJS45: < 1 implies Imputed |
| LINDJS45 | Imputed R/T adjusted av45, shifted, LIN |
| LINDWT45 | Weight for LINDJS45: < 1 implies Imputed |
| LOPDJS45 | Imputed R/T adjusted av45, shifted, LOP |
| LOPDWT45 | Weight for LOPDJS45: < 1 implies Imputed |
| MND45_1S | MEAN OF THE JS45 VARIABLES |
| RBIDJS45 | Imputed R/T adjusted av45, shifted, RBI |
| RBIDWT45 | Weight for RBIDJS45: < 1 implies Imputed |
| RINDJS45 | Imputed R/T adjusted av45, shifted, RIN |
| RINDWT45 | Weight for RINDJS45: < 1 implies Imputed |
| ROPDJS45 | Imputed R/T adjusted av45, shifted, ROP |
| ROPDWT45 | Weight for ROPDJS45: < 1 implies Imputed |
| SUMWTD45 | WEIGHT FOR MND45_1S (=NO. OF OBS SITES/6) |

Data Set Names
The data sets containing these variables are: RTASBF4x, RTASBM4x, RTASWF4x, and RTASWM4x, where rtas indicates the variables are reader trend adjusted shifted, the next two letters indicate the gender-race group (B-black, W-white, M-male, F-female), the 4 indicates it is a visit 4 data set, and x is 1 which is  a placeholder for the version of the data set.

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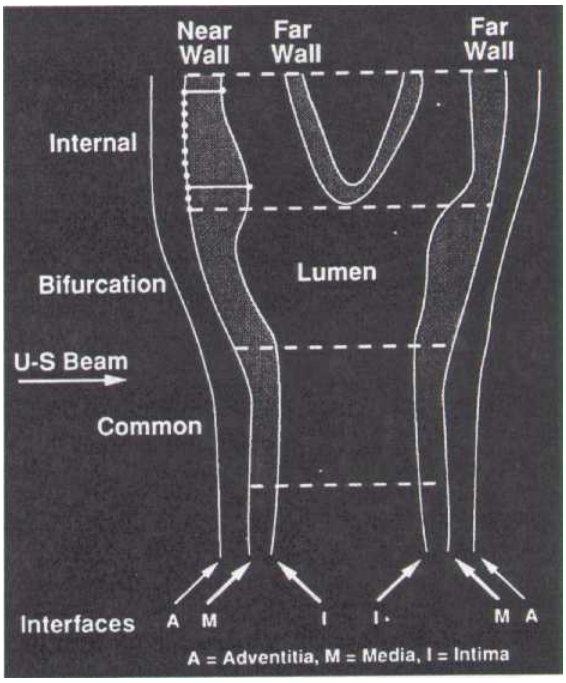
Appendix A

B-Mode Derived Variable Site Prefixes

| | |
|---|---|
| LBI | Left Bifurcation |
| RBI | Right Bifurcation |
| LIN | Left Internal Carotid |
| RIN | Right Internal Carotid |
| LOP | Left Common Carotid: Optimal Angle |
| ROP | Right Common Carotid: Optimal Angle |
| QCC1 | First QC Repeat Scan (refer to QC01 for site identification) |
| QCC2 | Second QC Repeat Scan (refer to QC02 for site identification) |

Schematic Overview of Carotid Artery B-Mode Ultrasound Measurements




Interfaces

1- Boundary between the periadventitia and adventitia of the near wall (not measured)
2- Boundary between the adventitia and media of the near wall
3- Boundary between the intima of the near wall and the blood
4- Boundary between blood and intima of the far wall
5- Boundary between media and adventitia of the far wall
6- Boundary between adventitia and periadventitia of the far wall (not measured)

Max 23 = B-A; Max 45 = D-C; Min 34 = H-G

The extracranial carotid system is divided into one-centimeter segments: I = internal carotid; II = carotid bifurcation; III = common carotid. A maximum of eleven measurements is made by URC readers on each arterial wall interface, in each arterial segment. These measurements are placed equidistant at 1 millimeter intervals, represented by the eleven points placed on interface B2 on the internal carotid. Also shown on this schematic is the definition of a maximum and a minimum wall thickness variable. Computational formulae for these variables are shown in this appendix.

**Ultrasound data**

Reader trend adjusted derived variables for far wall thickness - white female

| *ID* | | *Aric Subject ID (Cir)* |
|---|---|---|
| *N* | *Value* | *Description* |
| 2859 | Present | Text suppressed |

| *LBIDJS45* | | *Imputed R/T Adjusted av45, Shifted, LBI* |
|---|---|---|
| *N* | *Value* | *Description* |
| 2859 | Range | 0.265879 - 5.007198 ( median=0.801531 mean=0.8783216 std=0.3734593 ) |

| *LBIDWT45* | | *Weight For LBI: < 1 Implies Imputed* |
|---|---|---|
| *N* | *Value* | *Description* |
| 78 | 0.1666666667 | |
| 204 | 0.3333333333 | |
| 236 | 0.5 | |
| 211 | 0.6666666667 | |
| 135 | 0.8333333333 | |
| 1995 | 1 | |

| *LINDJS45* | | *Imputed R/T Adjusted av45, Shifted, LIN* |
|---|---|---|
| *N* | *Value* | *Description* |
| 2859 | Range | 0.186175 - 5.564781 ( median=0.621209 mean=0.6796162 std=0.3080934 ) |

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| *LINDWT45* | | *Weight For LIN: < 1 Implies Imputed* |
|---|---|---|
| *N* | *Value* | *Description* |
| 79 | 0.1666666667 | |
| 219 | 0.3333333333 | |
| 268 | 0.5 | |
| 290 | 0.6666666667 | |
| 262 | 0.8333333333 | |
| 1741 | 1 | |

| *LOPDJS45* | | *Imputed R/T Adjusted av45, Shifted, LOP* |
|---|---|---|
| *N* | *Value* | *Description* |
| 2859 | Range | 0.251584 - 2.526484 ( median=0.640254 mean=0.6656355 std=0.1836748 ) |

| *LOPDWT45* | | *Weight For LOP: < 1 Implies Imputed* |
|---|---|---|
| *N* | *Value* | *Description* |
| 51 | 0.1666666667 | |
| 75 | 0.3333333333 | |
| 69 | 0.5 | |
| 36 | 0.6666666667 | |
| 11 | 0.8333333333 | |
| 2617 | 1 | |

| *MND45_1S* | | *Mean Of The JS45 Variables* |
|---|---|---|
| *N* | *Value* | *Description* |
| 2859 | Range | 0.406048 - 2.552732 ( median=0.706514 mean=0.7629594 std=0.2289200 ) |

| *RBIDJS45* | | *Imputed R/T Adjusted av45, Shifted, RBI* |
|---|---|---|
| *N* | *Value* | *Description* |
| 2859 | Range | 0.267248 - 4.672409 ( median=0.865383 mean=0.9672120 std=0.4433968 ) |

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| *RBIDWT45* | | *Weight For RBI: < 1 Implies Imputed* |
|---|---|---|
| *N* | *Value* | *Description* |
| 78 | 0.1666666667 | |
| 191 | 0.3333333333 | |
| 227 | 0.5 | |
| 219 | 0.6666666667 | |
| 101 | 0.8333333333 | |
| 2043 | 1 | |

| *RINDJS45* | | *Imputed R/T Adjusted av45, Shifted, RIN* |
|---|---|---|
| *N* | *Value* | *Description* |
| 2859 | Range | 0.144795 - 4.638047 ( median=0.627467 mean=0.7235768 std=0.4384802 ) |

| *RINDWT45* | | *Weight For RIN: < 1 Implies Imputed* |
|---|---|---|
| *N* | *Value* | *Description* |
| 73 | 0.1666666667 | |
| 204 | 0.3333333333 | |
| 296 | 0.5 | |
| 305 | 0.6666666667 | |
| 220 | 0.8333333333 | |
| 1761 | 1 | |

| *ROPDJS45* | | *Imputed R/T Adjusted av45, Shifted, ROP* |
|---|---|---|
| *N* | *Value* | *Description* |
| 2859 | Range | 0.230452 - 2.80163 ( median=0.636764 mean=0.6633944 std=0.1994079 ) |

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| *ROPDWT45* | | *Weight For ROP: < 1 Implies Imputed* |
|---|---|---|
| *N* | *Value* | *Description* |
| 51 | 0.1666666667 | |
| 63 | 0.3333333333 | |
| 62 | 0.5 | |
| 41 | 0.6666666667 | |
| 20 | 0.8333333333 | |
| 2622 | 1 | |

| *SUMWTD45* | | *Weight For MND45_1S(=no. Of Obs Sites/6)* |
|---|---|---|
| *N* | *Value* | *Description* |
| 82 | 0.1666666667 | |
| 239 | 0.3333333333 | |
| 386 | 0.5 | |
| 551 | 0.6666666667 | |
| 749 | 0.8333333333 | |
| 852 | 1 | |

| *TEMPL* | | *TEMPL* |
|---|---|---|
| *N* | *Value* | *Description* |
| 79 | 0.1666666667 | |
| 219 | 0.3333333333 | |
| 268 | 0.5 | |
| 290 | 0.6666666667 | |
| 262 | 0.8333333333 | |
| 1741 | 1 | |

## *Cohort, Exam 4*

| *TEMPR* | | *TEMPR* |
|---|---|---|
| *N* | *Value* | *Description* |
| 73 | 0.1666666667 | |
| 204 | 0.3333333333 | |
| 296 | 0.5 | |
| 305 | 0.6666666667 | |
| 220 | 0.8333333333 | |
| 1761 | 1 | |