

Cohort, Exam 4**Ultrasound data****Reader Trend Adjusted Derived Variables for Far Wall Thickness**

Because of method drift over the visit and systematic differences between readers, an additional set of far wall thickness variables was derived to adjust for these problems. These are the Reader Trend Adjusted (RTA) variables for the far wall thickness (ie boundaries 4 and 5) as illustrated in the schematic in Appendix A. The following variables appear in the RTA data files.

Variable Name	Description
id	Aric subject id
lbidrt45	Imputed RTA far wall thickness, LBID
lbidwt45	Weight for lbidrt45
lindrt45	Imputed RTA far wall thickness, LIND
lindwt45	Weight for lindrt45
lopdr45	Imputed RTA far wall thickness, LOPD
lopdrwt45	weight for lopdr45
mnd45_1	Mean of the *rt45 variables
rbidrt45	Imputed RTA far wall thickness, RBID
rbidwt45	Weight for rbidrt45 variables
rindrt45	Imputed RTA far wall thickness, RIND
rindwt45	Weight for rindrt45 variables
ropdr45	Imputed RTA far wall thickness, ROPD
ropdrwt45	Weight for ropdr45

Data Set Names

The data sets containing these variables are: rtabf41, rtabm41, rtawf41, and rtawm41 where rta indicates the variables are reader trend adjusted, the next two letters indicate the gender-race group, the 4 indicates it is a Visit 4 data set, and the 1 is a placeholder for the version of the data set.

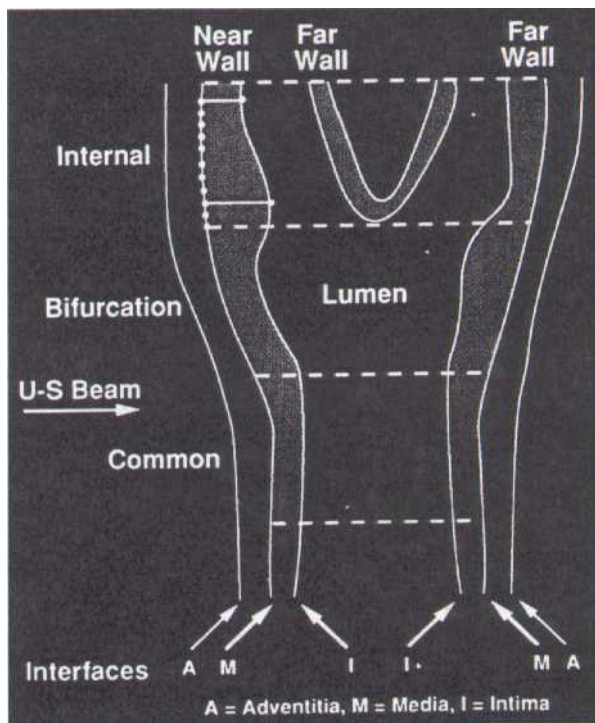
Cohort, Exam 4

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.

Cohort, Exam 4**Ultrasound data**

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

<i>ID</i>		<i>Aric Subject ID (Cir)</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2859	Present	Text suppressed

<i>LBIDRT45</i>		<i>Imputed RTA far wall thickness, LBID</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2859	Range	0.297401 - 5.03872 (median=0.833053 mean=0.9098436 std=0.3734593)

<i>LBIDWT45</i>		<i>Weight For LBIDWT45</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
78	0.166666667	
204	0.333333333	
236	0.5	
211	0.666666667	
135	0.833333333	
1995	1	

<i>LINDRT45</i>		<i>Imputed RTA far wall thickness, LINC</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2859	Range	0.224154 - 5.60276 (median=0.659188 mean=0.7175950 std=0.3080934)

<i>LINDWT45</i>		<i>Weight For LINDRT45</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
79	0.166666667	
219	0.333333333	
268	0.5	
290	0.666666667	
262	0.833333333	
1741	1	

<i>LOPDRT45</i>		<i>Imputed RTA far wall thickness, LOPC</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2859	Range	0.31726 - 2.59216 (median=0.70593 mean=0.731311 std=0.183675)

Cohort, Exam 4

<i>LOPDWT45</i>		<i>Weight For LOPDRT45</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
51	0.1666666667	
75	0.3333333333	
69	0.5	
36	0.6666666667	
11	0.8333333333	
2617	1	

<i>MND45_1</i>		<i>Mean Of The RT45 Variables</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2859	Range	0.464325 - 2.611009 (median=0.764791 mean=0.8212361 std=0.2289200)

<i>RBIDRT45</i>		<i>Imputed RTA for wall thickness, RBID</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2859	Range	0.279059 - 4.68422 (median=0.877194 mean=0.9790234 std=0.4433968)

<i>RBIDWT45</i>		<i>Weight For RBIDRT45</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
78	0.1666666667	
191	0.3333333333	
227	0.5	
219	0.6666666667	
101	0.8333333333	
2043	1	

<i>RINDRT45</i>		<i>Imputed RTA for wall thickness, RIND</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2859	Range	0.230438 - 4.72369 (median=0.71311 mean=0.809220 std=0.438480)

Cohort, Exam 4

<i>RINDWT45</i>		<i>Weight For RINDRT45</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
73	0.1666666667	
204	0.3333333333	
296	0.5	
305	0.6666666667	
220	0.8333333333	
1761	1	

<i>ROPDRT45</i>		<i>Imputed RTA for wall thickness, ROPD</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
2859	Range	0.347482 - 2.91866 (median=0.753794 mean=0.7804240 std=0.1994079)

<i>ROPDWT45</i>		<i>Weight For ROPDRT45</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
51	0.1666666667	
63	0.3333333333	
62	0.5	
41	0.6666666667	
20	0.8333333333	
2622	1	

<i>TEMPL</i>		<i>TEMPL</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
79	0.1666666667	
219	0.3333333333	
268	0.5	
290	0.6666666667	
262	0.8333333333	
1741	1	

Cohort, Exam 4

<i>TEMPR</i>		<i>TEMPR</i>
<i>N</i>	<i>Value</i>	<i>Description</i>
73	0.1666666667	
204	0.3333333333	
296	0.5	
305	0.6666666667	
220	0.8333333333	
1761	1	