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
lopdrt45	Imputed RTA far wall thickness, LOPD
lopdwt45	weight for lopdrt45
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
ropdrt45	Imputed RTA far wall thickness, ROPD
ropdwt45	Weight for ropdrt45

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.

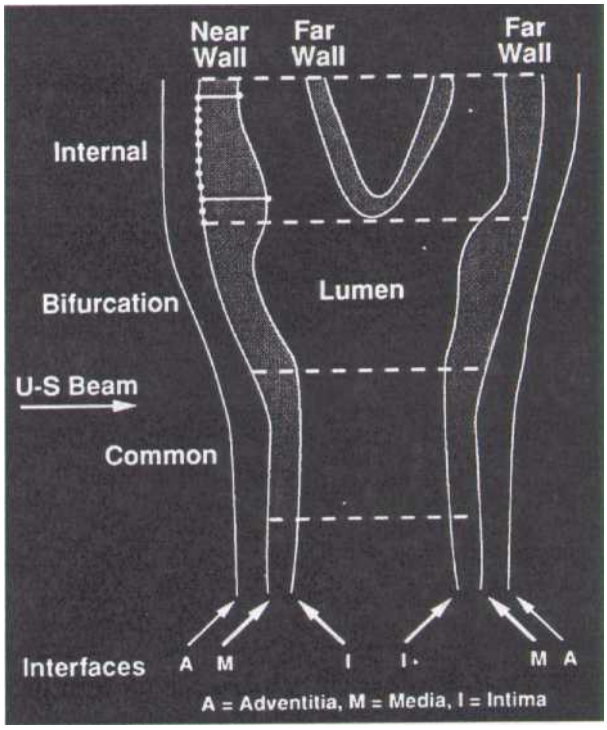
Cohort, Exam 4

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.

Ultrasound data

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

ID		*Aric Subject ID (Cir)*
N	*Value*	*Description*
776	Present	Text suppressed

LBIDRT45		*Imputed RTA far wall thickness, LBID*
N	*Value*	*Description*
776	Range	0.277899 - 3.30014 (median=0.865787 mean=0.9135704 std=0.2974449)

LBIDWT45		*Weight For LBIDRT45*
N	*Value*	*Description*
130	0.1666666667	
144	0.3333333333	
101	0.5	
53	0.6666666667	
16	0.8333333333	
332	1	

LINDRT45		*Imputed RTA far wall thickness, LIND*
N	*Value*	*Description*
776	Range	0.31087 - 3.45656 (median=0.662641 mean=0.7051907 std=0.2587519)

LINDWT45		*Weight For LINDRT45*
N	*Value*	*Description*
131	0.1666666667	
146	0.3333333333	
128	0.5	
88	0.6666666667	
31	0.8333333333	
252	1	

LOPDRT45		*Imputed RTA far wall thickness, LOPD*
N	*Value*	*Description*
776	Range	0.401285 - 1.47565 (median=0.725472 mean=0.7462038 std=0.1471238)

Cohort, Exam 4

LOPDWT45		*Weight For LOPDRT45*
N	*Value*	*Description*
87	0.1666666667	
53	0.3333333333	
27	0.5	
8	0.6666666667	
2	0.8333333333	
599	1	

MND45_1		*Mean Of The RT45 Variables*
N	*Value*	*Description*
776	Range	0.461762 - 2.971815 (median=0.784984 mean=0.8265835 std=0.2149949)

RBIDRT45		*Imputed RTA far wall thickness, RBID*
N	*Value*	*Description*
776	Range	0.252492 - 4.24546 (median=0.96781 mean=1.041641 std=0.393243)

RBIDWT45		*Weight For RBIDRT45*
N	*Value*	*Description*
131	0.1666666667	
131	0.3333333333	
94	0.5	
63	0.6666666667	
19	0.8333333333	
338	1	

RINDRT45		*Imputed RTA far wall thickness, RIND*
N	*Value*	*Description*
776	Range	0.164498 - 6.49485 (median=0.674173 mean=0.7442480 std=0.4015394)

Cohort, Exam 4

RINDWT45		*Weight For RINDRT45*
N	*Value*	*Description*
131	0.1666666667	
142	0.3333333333	
127	0.5	
92	0.6666666667	
34	0.8333333333	
250	1	

ROPDRT45		*Imputed RTA far wall thickness, ROPD*
N	*Value*	*Description*
776	Range	0.43805 - 1.99114 (median=0.785206 mean=0.8086476 std=0.1716672)

ROPDWT45		*Weight For ROPDRT45*
N	*Value*	*Description*
70	0.1666666667	
36	0.3333333333	
18	0.5	
2	0.6666666667	
1	0.8333333333	
649	1	

TEMPL		*TEMPL*
N	*Value*	*Description*
131	0.1666666667	
146	0.3333333333	
128	0.5	
88	0.6666666667	
31	0.8333333333	
252	1	

Cohort, Exam 4

	TEMPR	*TEMPR*
N	*Value*	*Description*
131	0.1666666667	
142	0.3333333333	
127	0.5	
92	0.6666666667	
34	0.8333333333	
250	1	