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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
lbibrt45	Imputed RTA far wall thickness, LBIB
lbibwt45	Weight for lbibrt45
linbrt45	Imputed RTA far wall thickness, LINB
linbwt45	Weight for linbrt45
lopbrt45	Imputed RTA far wall thickness, LOPB
lopbwt45	Weight for lopbrt45
mnb45_1	Mean of the *rt45 variables
rbibrt45	Imputed RTA far wall thickness, RBIB
rbibwt45	Weight for rbiart45 variables
rinbrt45	Imputed RTA far wall thickness, RINB
rinbwt45	Weight for rinart45 variables
ropbrt45	Imputed RTA far wall thickness, ROPB
ropbwt45	Weight for ropart45

Data Set Names
The data sets containing these variables are: rtabf2x, rtabm2x, rtawf2x, and rtawm2x where rta indicates the variables are reader trend adjusted, the next two letters indicate the gender-race group, the 2 indicates it is a Visit 2 data set, and x is a placeholder for the version of the data set.

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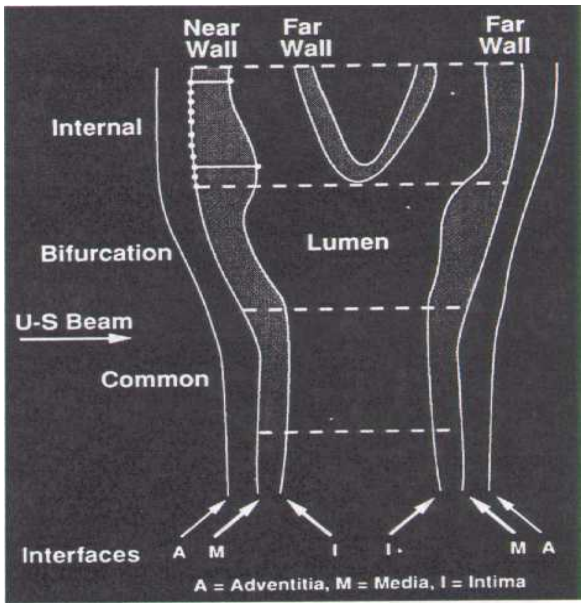
Appendix A

B-Mode Derived Variable Site Prefixes

LAN	Left Common Carotid: Anterior Angle
RAN	Right Common Carotid: Anterior Angle
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
LPO	Left Common Carotid: Posterior Angle
RPO	Right Common Carotid: Posterior Angle
LPP	Left Popliteal
RPP	Right Popliteal
QC1	First QC Repeat Scan (refer to QC01 for site identification)
QC2	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.

Ultrasound data

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

ID		*Aric Subject ID (Cir)*
N	*Value*	*Description*
4955	Present	Text suppressed

LBIBRT45		*Imputed RTA far wall thickness, LBIB*
N	*Value*	*Description*
4955	Range	0.26636 - 4.54568 (median=0.834845 mean=0.9084551 std=0.3564197)

LBIBWT45		*Weight For LBIBRT45*
N	*Value*	*Description*
186	0.1666666667	
266	0.3333333333	
424	0.5	
422	0.6666666667	
248	0.8333333333	
3409	1	

LINBRT45		*Imputed RTA far wall thickness, LINB*
N	*Value*	*Description*
4955	Range	0.171545 - 5.05223 (median=0.639747 mean=0.6950975 std=0.3212065)

LINBWT45		*Weight For LINBRT45*
N	*Value*	*Description*
178	0.1666666667	
288	0.3333333333	
472	0.5	
526	0.6666666667	
391	0.8333333333	
3100	1	

LOPBRT45		*Imputed RTA far wall thickness, LOPB*
N	*Value*	*Description*
4955	Range	0.246556 - 3.3311 (median=0.682809 mean=0.7085694 std=0.1893713)

LOPBWT45		*Weight For LOPBRT45*
N	*Value*	*Description*
138	0.1666666667	
144	0.3333333333	
157	0.5	
97	0.6666666667	
64	0.8333333333	
4355	1	

MNB45_1		*Mean Of The RT45 Variables*
N	*Value*	*Description*
4955	Range	0.406876 - 2.985378 (median=0.740118 mean=0.7882113 std=0.2104565)

RBIBRT45		*Imputed RTA far wall thickness, RBIB*
N	*Value*	*Description*
4955	Range	0.268342 - 7.69346 (median=0.849377 mean=0.9520019 std=0.4364223)

RBIBWT45		*Weight For RBIBRT45*
N	*Value*	*Description*
182	0.1666666667	
254	0.3333333333	
317	0.5	
375	0.6666666667	
187	0.8333333333	
3640	1	

RINBRT45		*Imputed RTA far wall thickness, RINB*
N	*Value*	*Description*
4955	Range	0.178773 - 6.55784 (median=0.6991 mean=0.77377 std=0.38844)

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RINBWT45		*Weight For RINBRT45*
N	*Value*	*Description*
189	0.1666666667	
299	0.3333333333	
470	0.5	
568	0.6666666667	
337	0.8333333333	
3092	1	

ROPBRT45		*Imputed RTA far wall thickness, ROPB*
N	*Value*	*Description*
4955	Range	0.185992 - 3.09061 (median=0.666419 mean=0.6913716 std=0.1838228)

ROPBWT45		*Weight For ROPBRT45*
N	*Value*	*Description*
107	0.1666666667	
121	0.3333333333	
101	0.5	
94	0.6666666667	
46	0.8333333333	
4486	1	

TEMPL		*TEMPL*
N	*Value*	*Description*
178	0.1666666667	
288	0.3333333333	
472	0.5	
526	0.6666666667	
391	0.8333333333	
3100	1	

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	TEMPR	*TEMPR*
N	*Value*	*Description*
189	0.1666666667	
299	0.3333333333	
470	0.5	
568	0.6666666667	
337	0.8333333333	
3092	1	