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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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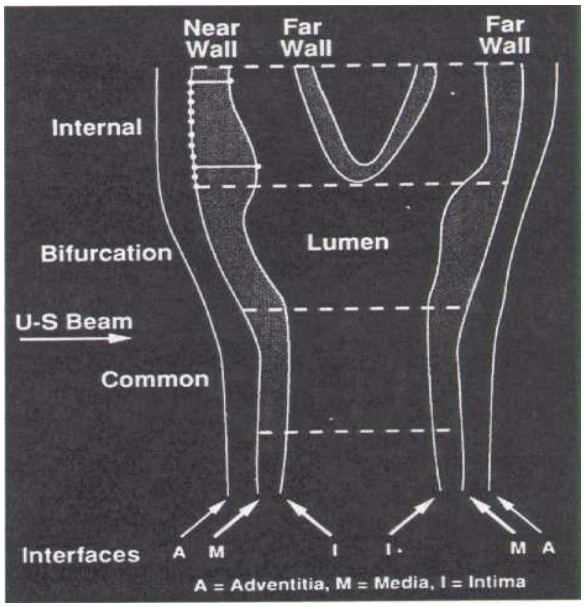
Appendix A

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 female

ID		*Aric Subject ID (Cir)*
N	*Value*	*Description*
5568	Present	Text suppressed

LBIBRT45		*Imputed RTA far wall thickness, LBIB*
N	*Value*	*Description*
5568	Range	0.24809 - 3.61572 (median=0.736263 mean=0.7860686 std=0.2767397)

LBIBWT45		*Weight For LBIBRT45*
N	*Value*	*Description*
125	0.1666666667	
266	0.3333333333	
372	0.5	
351	0.6666666667	
192	0.8333333333	
4262	1	

LINBRT45		*Imputed RTA far wall thickness, LINB*
N	*Value*	*Description*
5568	Range	0.175137 - 4.66414 (median=0.56251 mean=0.610123 std=0.273149)

LINBWT45		*Weight For LINBRT45*
N	*Value*	*Description*
132	0.1666666667	
294	0.3333333333	
500	0.5	
690	0.6666666667	
483	0.8333333333	
3469	1	

LOPBRT45		*Imputed RTA far wall thickness, LOPB*
N	*Value*	*Description*
5568	Range	0.207121 - 3.03065 (median=0.61396 mean=0.629684 std=0.149789)

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LOPBWT45		*Weight For LOPBRT45*
N	*Value*	*Description*
98	0.1666666667	
136	0.3333333333	
141	0.5	
140	0.6666666667	
68	0.8333333333	
4985	1	

MNB45_1		*Mean Of The RT45 Variables*
N	*Value*	*Description*
5568	Range	0.367061 - 2.437965 (median=0.656814 mean=0.6924761 std=0.1699600)

RBIBRT45		*Imputed RTA far wall thickness, RBIB*
N	*Value*	*Description*
5568	Range	0.223452 - 4.56441 (median=0.755659 mean=0.8176796 std=0.3139761)

RBIBWT45		*Weight For RBIBRT45*
N	*Value*	*Description*
127	0.1666666667	
244	0.3333333333	
370	0.5	
403	0.6666666667	
222	0.8333333333	
4202	1	

RINBRT45		*Imputed RTA far wall thickness, RINB*
N	*Value*	*Description*
5568	Range	0.151727 - 5.25712 (median=0.619098 mean=0.6820476 std=0.3427600)

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RINBWT45		*Weight For RINBRT45*
N	*Value*	*Description*
138	0.1666666667	
305	0.3333333333	
504	0.5	
647	0.6666666667	
440	0.8333333333	
3534	1	

ROPBRT45		*Imputed RTA far wall thickness, ROPB*
N	*Value*	*Description*
5568	Range	0.251031 - 1.69862 (median=0.610805 mean=0.6292541 std=0.1396630)

ROPBWT45		*Weight For ROPBRT45*
N	*Value*	*Description*
90	0.1666666667	
111	0.3333333333	
108	0.5	
83	0.6666666667	
66	0.8333333333	
5110	1	

TEMPL		*TEMPL*
N	*Value*	*Description*
132	0.1666666667	
294	0.3333333333	
500	0.5	
690	0.6666666667	
483	0.8333333333	
3469	1	

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	TEMPR	*TEMPR*
N	*Value*	*Description*
138	0.1666666667	
305	0.3333333333	
504	0.5	
647	0.6666666667	
440	0.8333333333	
3534	1	