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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
lateread	=1 if scandate on or after May 15, 1987 =0 if scandate before May 15, 1987
lbiart45	Imputed RTA far wall thickness, LBIA
lbiawt45	Weight for lbiart45
linart45	Imputed RTA far wall thickness, LINA
linawt45	Weight for linart45
lopart45	Imputed RTA far wall thickness, LOPA
lopawt45	weight for lopart45
mna45_1	Mean of the *rt45 variables
rbiart45	Imputed RTA far wall thickness, RBIA
rbiawt45	Weight for rbiart45 variables
rinart45	Imputed RTA far wall thickness, RINA
rinawt45	Weight for rinart45 variables
ropart45	Imputed RTA far wall thickness, ROPA
ropawt45	Weight for ropart45
sumwta45	Weight for mna45_1 (= number of obs sites / 6)

Data Set Names
The data sets containing these variables are: RT**03 where x**=BF, BM, WF, and WM for black female, black male, white female, white female, respectively.

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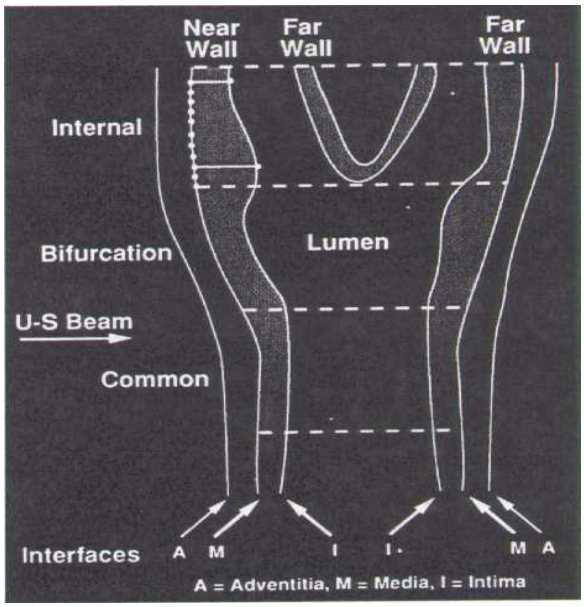
Appendix A

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 - black female

ID		*Aric Subject ID (Cir)*
N	*Value*	*Description*
2301	Present	Text suppressed

LATEREAD		*1=scandate>=15may87, 0=scandate<15may87*
N	*Value*	*Description*
172	0	Scandate on or after May 15, 1987
2127	1	Scandate before May 15, 1987
2		Missing

LBIART45		*Imputed RTA far wall thickness, LBIA*
N	*Value*	*Description*
2301	Range	0.268479 - 3.19026 (median=0.756083 mean=0.7994534 std=0.2479195)

LBIAWT45		*Weight For LBIART45*
N	*Value*	*Description*
272	0.1666666667	
344	0.3333333333	
273	0.5	
140	0.6666666667	
30	0.8333333333	
1242	1	

LINART45		*Imputed RTA far wall thickness, LINA*
N	*Value*	*Description*
2301	Range	-0.09041 - 2.65452 (median=0.608342 mean=0.6315476 std=0.1770071)

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LINAWT45		*Weight For LINART45*
N	*Value*	*Description*
273	0.1666666667	
404	0.3333333333	
421	0.5	
385	0.6666666667	
132	0.8333333333	
686	1	

LOPART45		*Imputed RTA far wall thickness, LOPA*
N	*Value*	*Description*
2301	Range	0.255964 - 1.56354 (median=0.603237 mean=0.6257622 std=0.1548697)

LOPAWT45		*Weight For LOPART45*
N	*Value*	*Description*
193	0.1666666667	
124	0.3333333333	
88	0.5	
36	0.6666666667	
7	0.8333333333	
1853	1	

MNA45_1		*Mean Of The RT45 Variables*
N	*Value*	*Description*
2301	Range	0.377209 - 1.786365 (median=0.676275 mean=0.7069151 std=0.1548623)

RBIART45		*Imputed RTA far wall thickness, RBIA*
N	*Value*	*Description*
2301	Range	0.222822 - 3.39676 (median=0.793635 mean=0.8425077 std=0.2850449)

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RBIAWT45		*Weight For RBIART45*
N	*Value*	*Description*
278	0.1666666667	
356	0.3333333333	
276	0.5	
129	0.6666666667	
29	0.8333333333	
1233	1	

RINART45		*Imputed RTA far wall thickness, RINA*
N	*Value*	*Description*
2301	Range	0.078179 - 5.19622 (median=0.666658 mean=0.7013305 std=0.2569860)

RINAWT45		*Weight For RINART45*
N	*Value*	*Description*
281	0.1666666667	
402	0.3333333333	
453	0.5	
400	0.6666666667	
138	0.8333333333	
627	1	

ROPART45		*Imputed RTA far wall thickness, ROPA*
N	*Value*	*Description*
2301	Range	0.22774 - 2.45327 (median=0.620086 mean=0.6408891 std=0.1594353)

ROPAWT45		*Weight For ROPART45*
N	*Value*	*Description*
153	0.1666666667	
122	0.3333333333	
49	0.5	
16	0.6666666667	
3	0.8333333333	
1958	1	

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SUMWTA45		*Weight for MNA45_1 (= number of obs sites / 6)*
N	*Value*	*Description*
290	0.1666666667	
438	0.3333333333	
520	0.5	
553	0.6666666667	
339	0.8333333333	
161	1	