Cohort, Exam 1

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)

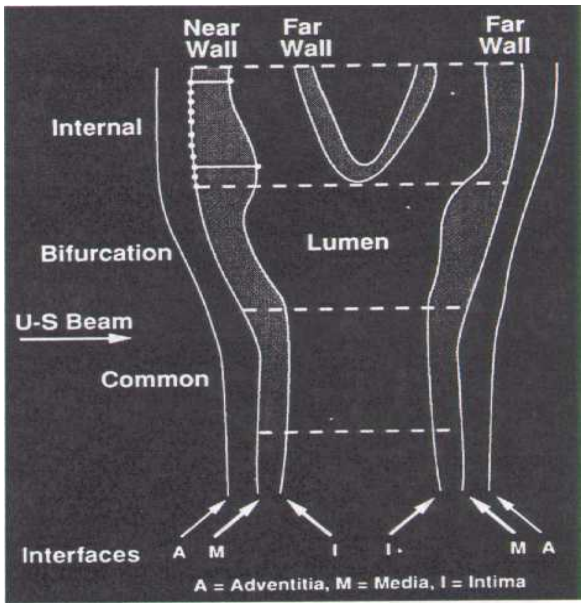
Data Set Names
The data sets containing these variables are: RT**03 where x**=BF, BM, WF, and WM for black female, black male, white female, white female, respectively.

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.

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Reader trend adjusted - white female

ID		*Aric Subject ID (Cir)*
N	*Value*	*Description*
5761	Present	Text suppressed

LATEREAD		*1=scandate>=15may87, 0=scandate<15may87*
N	*Value*	*Description*
483	0	Scan date before 15may87
5276	1	Scan date on or after 15may87
2		Missing

LBIART45		*Imputed RTA far wall thickness, LBIA*
N	*Value*	*Description*
5761	Range	0.232939 - 4.19857 (median=0.721318 mean=0.7640307 std=0.2678513)

LBIAWT45		*Weight For LBIART45*
N	*Value*	*Description*
345	0.1666666667	
604	0.3333333333	
537	0.5	
377	0.6666666667	
159	0.8333333333	
3739	1	

LINART45		*Imputed RTA far wall thickness, LINA*
N	*Value*	*Description*
5761	Range	0.160118 - 5.14934 (median=0.592645 mean=0.6285967 std=0.2501264)

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LINAWT45		*Weight For LINART45*
N	*Value*	*Description*
371	0.1666666667	
728	0.3333333333	
849	0.5	
816	0.6666666667	
456	0.8333333333	
2541	1	

LOPART45		*Imputed RTA far wall thickness, LOPA*
N	*Value*	*Description*
5761	Range	0.198345 - 2.26181 (median=0.577592 mean=0.5939974 std=0.1440459)

LOPAWT45		*Weight For LOPART45*
N	*Value*	*Description*
275	0.1666666667	
308	0.3333333333	
211	0.5	
134	0.6666666667	
55	0.8333333333	
4778	1	

MNA45_1		*Mean Of The RT45 Variables*
N	*Value*	*Description*
5761	Range	0.358381 - 2.221483 (median=0.64435 mean=0.675165 std=0.164773)

RBIART45		*Imputed RTA far wall thickness, RBIA*
N	*Value*	*Description*
5761	Range	0.235068 - 4.68731 (median=0.733511 mean=0.7828047 std=0.2867898)

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RBIAWT45		*Weight For RBIART45*
N	*Value*	*Description*
344	0.1666666667	
561	0.3333333333	
593	0.5	
394	0.6666666667	
140	0.8333333333	
3729	1	

RINART45		*Imputed RTA far wall thickness, RINA*
N	*Value*	*Description*
5761	Range	0.133124 - 4.53503 (median=0.650841 mean=0.6952984 std=0.2824732)

RINAWT45		*Weight For RINART45*
N	*Value*	*Description*
373	0.1666666667	
720	0.3333333333	
814	0.5	
815	0.6666666667	
389	0.8333333333	
2650	1	

ROPART45		*Imputed RTA far wall thickness, ROPA*
N	*Value*	*Description*
5761	Range	0.162804 - 2.45596 (median=0.571217 mean=0.5862647 std=0.1373553)

ROPAWT45		*Weight For ROPART45*
N	*Value*	*Description*
262	0.1666666667	
323	0.3333333333	
284	0.5	
174	0.6666666667	
68	0.8333333333	
4650	1	

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SUMWTA45		*Weight for MNA45_1 (= number of obs sites / 6)*
N	*Value*	*Description*
394	0.1666666667	
811	0.3333333333	
1096	0.5	
1355	0.6666666667	
1267	0.8333333333	
838	1	