Pediatric Case

Arterial Diameter and Age

SLICE worldwide

Common Femoral Artery Diameter

AGE (Months)	CFA Dm (mm)	Material (Outer Diameter in mm)								
		Neuron Max 2.67	Chaperon 2.1	SOFIA Plus 2.11	ACE 60 (2.03)	ACE 64 (2.03)	SOFIA 5 1.73	REACT 68 2.11	Radial Intro 8Fr 2.8	Radial Intro 6Fr 2.1
0-3	2.1 (1.8–2.5)									
3.1-6	2.3 (1.9–2.5)									
6.1-9	2.6 (2.3–2.8)									
9.1-12	2.8 (2.4–3.0)									
13-24	3.2 (2.8–3.7)									
25-36	3.8 (3.3–4.0)									
37-48	3.9 (3.5–4.3)									
5-7 yo	4.5 (3.6-5.7)									
8-12 yo	6.2 (5-7.5)									
12-14	7.5 (6-8)									

Adult CFA Dm = 6.6 mm (5-8)

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TABLE I. Average Femoral Vessel Diameter

Vessel	Diameter ± SD (mm)	Range (mm)
Common femoral artery	6.6 ± 1.2	3.9–8.9
Superficial femoral artery	5.2 ± 1.2	2.5–9.6
Deep femoral artery	4.9 ± 0.9	2.7–7.6

Internal Carotid Artery Diameter

AGE (Months)	ICA Dm (mm)	Material (Outer Diameter in mm)						
		Neuron Max 2.67	Chaperon 2.1	SOFIA Plus 2.11	ACE 60 (2.03)	ACE 64 (2.03)	SOFIA 5 1.73	REACT 68 2.11
0-6	2.8 (2.5–3.3)							
6-12	3.2 (2.5–4.2)							
12-24	3.4 (2.5–4.9)							
24-48	3.6 (2.7–5.5)							
48-72	3.6 (2.7–5.5)							
>72	4 (3–5.5)							
Adults	4.1 (3.6-6)							

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Angiographic Morphometry of Internal Carotid Artery Circulation in Turkish Children

Türk Çocuklarında İnternal Karotid Arter Dolaşımının Anjiyografik Morfometrisi

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Middle Cerebral Artery Diameter

AGE (Months)	MCA Dm (mm)	Material (Outer Diameter in mm)						
		Neuron Max 2.67	Chaperon 2.1	SOFIA Plus 2.11	ACE 60 (2.03)	ACE 64 (2.03)	SOFIA 5 1.73	REACT 68 2.11
0-6	2.3 (2–2.5)							
6-12	2.48 (2.1–3.3)							
12-24	2.6 (2.1–3.3)							
24-48	2.7 (2.2–3.3)							
48-72	2.74 (2.3–3.4)							
>72	4 (3–5.5)							
Adults	4.1 (3.6-6)							

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Basilar Artery Diameter

AGE (Months)	MCA Dm (mm)	Material (Outer Diameter in mm)						
		Neuron Max 2.67	Chaperon 2.1	SOFIA Plus 2.11	ACE 60 (2.03)	ACE 64 (2.03)	SOFIA 5 1.73	REACT 68 2.11
0-11	NA							
12	2							
24	4							
36	4							
48	4.5 (4-4.7)							
5-9 yo	4.5 (4–5)							
10-14 yo	4.5 (4-5)							

Neuroimaging

ORIGINAL RESEARCH

Rule of 5: angiographic diameters of cervicocerebral arteries in children and compatibility with adult neurointerventional devices

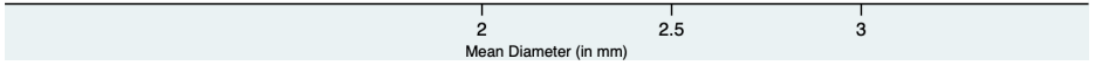
Lucy He,[1,2] Travis R Ladner,[1,3] Sumit Pruthi,[4] Matthew A Day,[4] Aditi A Desai,[4] Lori C Jordan,[5] Michael T Froehler[2]

Radial Artery

AGE (Months)	MCA Dm (mm)	Material (Outer Diameter in mm)								
		Neuron Max 2.67	Chaperon 2.1	SOFIA Plus 2.11	ACE 60 (2.03)	ACE 64 (2.03)	SOFIA 5 1.73	REACT 68 2.11	Radial Intro 8Fr 2.8	Radial Intro 6Fr 2.1
0-6	0.7-0.8									
<24	1.3-1.6									
2-5 yo	1.6-1.9									
6-8 yo	1.7-2									
9-11 yo	1.9-2.2									
12-14 yo	2-2.3									
15-18 yo	2.2-2.5									

Mean RA Diameter (in mm) By Gender for Adults

Gender	Total Patients	Total Studies	Mean Diameter (95% CI)
Male	1257	15	2.68 (2.42, 2.93)
Female	966	12	2.27 (2.00, 2.54)
Overall	2223	27	2.50 (2.31, 2.69)



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RESEARCH REPORT

Pediatric Anesthesia WILEY

Evaluation of distal radial artery cross-sectional internal diameter in neonates and infants by ultrasound and adequate selection of an intra-arterial catheter size

Ana C. Mavarez[1] | Caroline Ripat[2] | Steven Char[2] | Vanessa Abuchaibe
Marta Galarza[3] | Norman Halliday[4] | Eliane Q.S. Varga[4]

Neuroimaging

ORIGINAL RESEARCH

Rule of 5: angiographic diameters of cervicocerebral arteries in children and compatibility with adult neurointerventional devices

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Circulation: Cardiovascular Interventions

ORIGINAL ARTICLE

Can Children Be Considered for Transradial Interventions?

Prospective Study of Sonographic Radial Artery Diameters

Ahmad Alehaideb, MD; Winston Ha, MD; Suzanne Bickford, MD; Adam A. Dmytriw, MD, MPH, MSc;
Kartik Bhatia, MD; Afsaneh Amirabadi, MD; Arun Mohanta, MD; Govind Chavhan, MD; Prakash Muthusami, MD

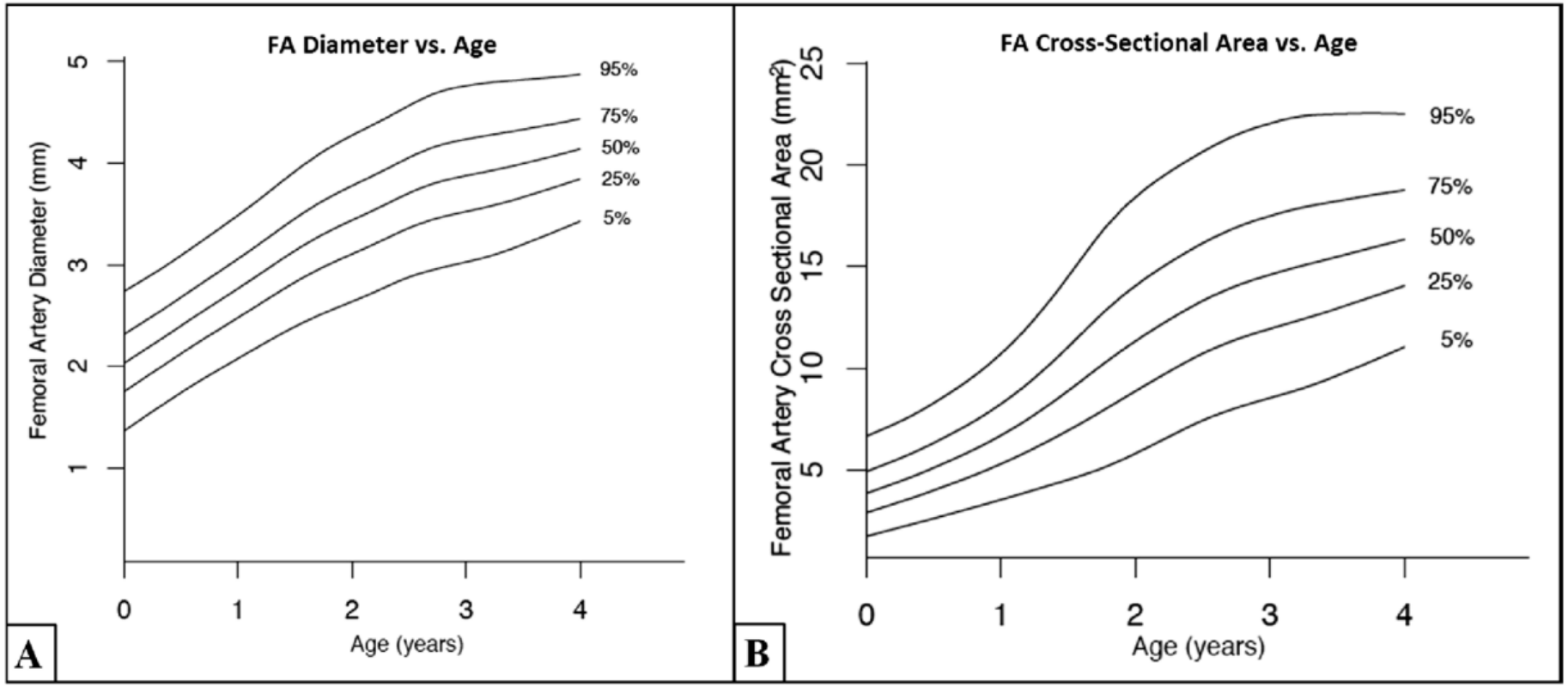

Fig. 1 **a** FA diameter vs. age. Nomograms for femoral artery diameter in children with incremental increase in age from 0 to 4 years. **b** FA cross-sectional area vs. age. Nomograms for femoral artery cross-sectional area in children with incremental increase in age from 0 to 4 years

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TABLE

Predicted CFA Diameters Calculated From the Presented Model for Different Ranges of Height and Body Mass Index (BMI)

	Height, cm						
BMI	50	70	90	110	130	150	170
11	1.3 (0–2.5)	1.9 (0.6–3.1)	2.5 (1.2–3.7)	3.1 (1.8–4.4)	3.7 (2.5–5.0)	4.4 (3.1–5.7)	5.0 (3.7–6.3)
14	1.4 (0.1–2.6)	2.0 (0.8–3.2)	2.6 (1.4–3.9)	3.2 (2.0–4.5)	3.9 (2.6–5.1)	4.4 (3.2–5.8)	5.1 (3.8–6.4)
17	1.5 (0.2–2.8)	2.1 (0.9–3.4)	2.8 (1.5–4.0)	3.4 (2.2–4.6)	4.0 (2.8–5.2)	4.6 (3.4–5.9)	5.2 (5.3–4.0)
20	1.6 (0.3–2.9)	2.3 (1.0–3.5)	2.9 (1.6–4.1)	3.5 (2.3–4.8)	4.1 (2.9–5.4)	4.8 (3.5–6.0)	5.4 (4.1–6.7)
23	1.8 (0.4–3.1)	2.4 (1.1–4.3)	3.0 (1.7–4.3)	3.7 (2.4–4.9)	4.3 (3.0–5.5)	4.9 (3.6–6.2)	5.5 (4.3–6.8)
26	1.9 (0.5–3.3)	2.5 (1.2–3.9)	3.2 (1.8–4.5)	3.8 (2.5–5.1)	4.4 (3.1–5.7)	5.0 (3.7–6.4)	5.7 (4.4–7.0)

Diameter measurements are in mm with 90% confidence intervals in parentheses.