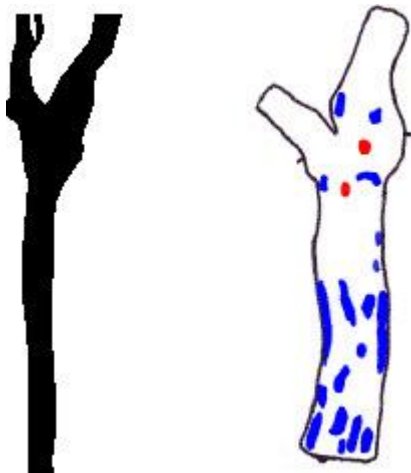


Digitized carotid bifurcations

For some carotid bifurcations exist ACIS/IGES files, which define the surface geometry. The IGES file contains a point cloud, which defines a surface geometry of the carotid bifurcation.

Please contact leonid.goubergrits@charite.de for specific file requests.

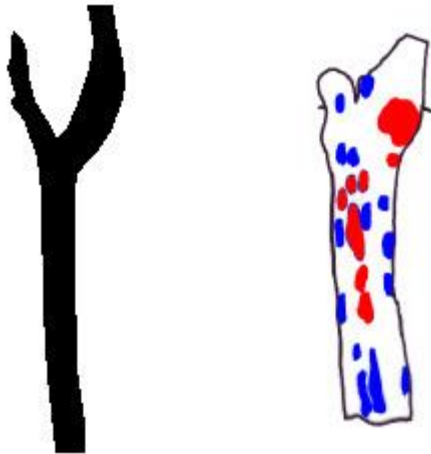
Carotid bifurcation 1



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	79
Sex:	M
Side:	right
Basic disease of death:	Chronic obstructive, Pulmonary disease
Direct cause of death:	Bronchopneumonia
Diameter of carotis communis:	5.4 mm
Diameter of carotis externa :	5.65 mm
Diameter of carotid sinus:	6.9 mm
Diameter of carotis interna:	4.6 mm
Branch angle between carotis communis and carotis interna:	33 degree
Branch angle between carotis communis and carotis externa:	27 degree

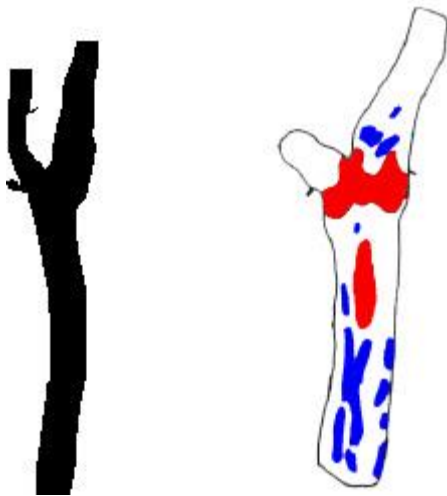
Carotid bifurcation 2



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	74
Sex:	M
Side:	left
Basic disease of death:	Atherosclerotic disease
Direct cause of death:	Pulmonary thromboembolism
Diameter of carotis communis:	5.6 mm
Diameter of carotis externa :	4.25 mm
Diameter of carotid sinus:	7 mm
Diameter of carotis interna:	5 mm
Branch angle between carotis communis and carotis interna:	40 degree
Branch angle between carotis communis and carotis externa:	25 degree

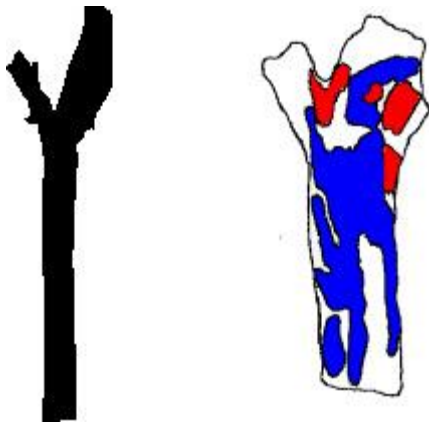
Carotid bifurcation 3



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	76
Sex:	M
Side:	left
Basic disease of death:	Atherosclerotic disease
Direct cause of death:	Myocardial infarction
Diameter of carotis communis:	7 mm
Diameter of carotis externa :	4.65 mm
Diameter of carotid sinus:	7.8 mm
Diameter of carotis interna:	5.15 mm
Branch angle between carotis communis and carotis interna:	19 degree
Branch angle between carotis communis and carotis externa:	50 degree

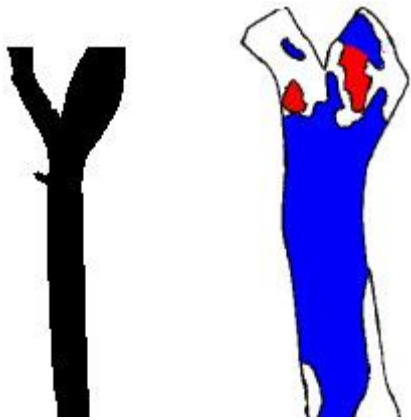
Carotid bifurcation 4



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	50
Sex:	M
Side:	right
Basic disease of death:	Atherosclerotic disease
Direct cause of death:	Myocardial infarction
Diameter of carotis communis:	6.4 mm
Diameter of carotis externa :	4.9 mm
Diameter of carotid sinus:	8.1 mm
Diameter of carotis interna:	5.1 mm
Branch angle between carotis communis and carotis interna:	20 degree
Branch angle between carotis communis and carotis externa:	34 degree

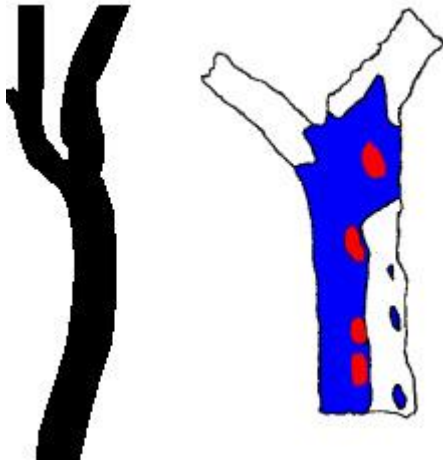
Carotid bifurcation 5



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	50
Sex:	M
Side:	left
Basic disease of death:	Atherosclerotic disease
Direct cause of death:	Myocardial infarction
Diameter of carotis communis:	7 mm
Diameter of carotis externa :	4.95 mm
Diameter of carotid sinus:	8.9 mm
Diameter of carotis interna:	6.6 mm
Branch angle between carotis communis and carotis interna:	34 degree
Branch angle between carotis communis and carotis externa:	28 degree

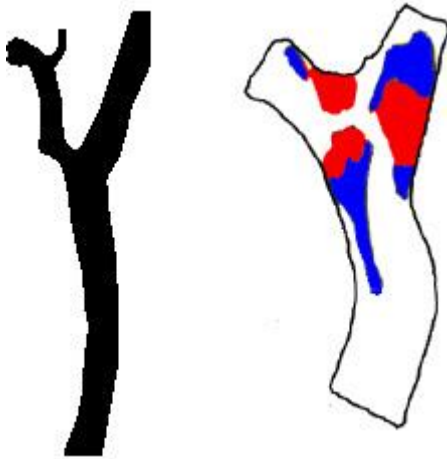
Carotid bifurcation 6



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	66
Sex:	M
Side:	left
Basic disease of death:	Hypertension disease
Direct cause of death:	Hypertensive encephalopathy
Diameter of carotis communis:	7.25 mm
Diameter of carotis externa :	5.05 mm
Diameter of carotid sinus:	7.1 mm
Diameter of carotis interna:	5.5 mm
Branch angle between carotis communis and carotis interna:	24 degree
Branch angle between carotis communis and carotis externa:	45 degree

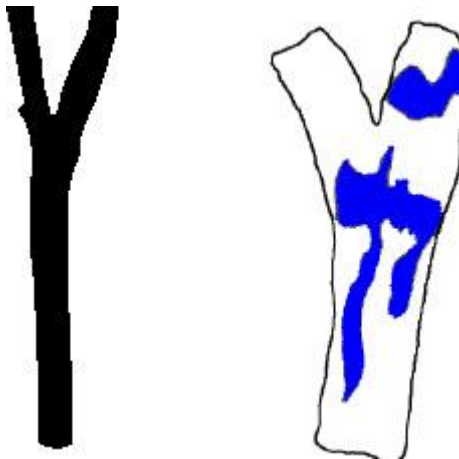
Carotid bifurcation 7



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	49
Sex:	F
Side:	right
Basic disease of death:	Atherosclerotic disease
Direct cause of death:	Myocardial infarction
Diameter of carotis communis:	6.5 mm
Diameter of carotis externa :	4.95 mm
Diameter of carotid sinus:	7.35 mm
Diameter of carotis interna:	5.1 mm
Branch angle between carotis communis and carotis interna:	36 degree
Branch angle between carotis communis and carotis externa:	21 degree

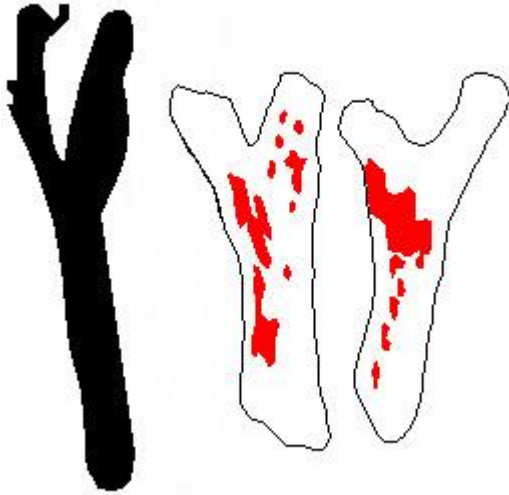
Carotid bifurcation 8



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	71
Sex:	M
Side:	right
Basic disease of death:	Atherosclerotic disease
Direct cause of death:	Bronchopneumonia
Diameter of carotis communis:	6.7 mm
Diameter of carotis externa :	5.1 mm
Diameter of carotid sinus:	5.0 mm
Diameter of carotis interna:	5.65 mm
Branch angle between carotis communis and carotis interna:	17 degree
Branch angle between carotis communis and carotis externa:	20 degree

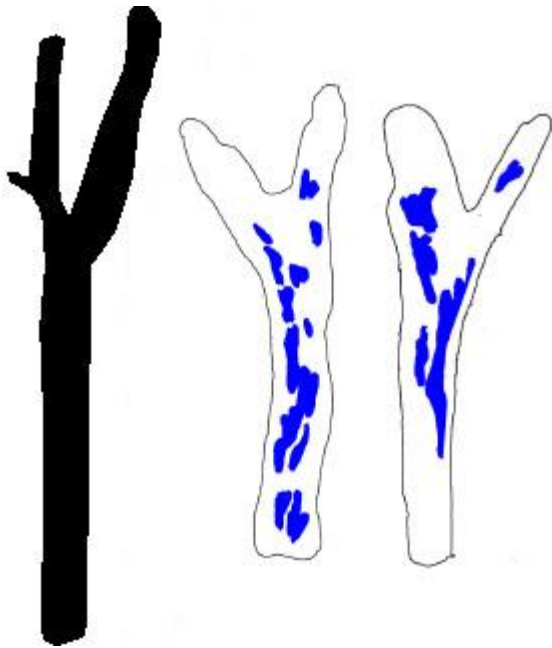
Carotid bifurcation 9



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	81
Sex:	M
Side:	right
Basic disease of death:	Atherosclerotic disease
Direct cause of death:	IMA
Diameter of carotis communis:	6.775 mm
Diameter of carotis externa :	4.6 mm
Diameter of carotid sinus:	8.6 mm
Diameter of carotis interna:	5.6 mm
Branch angle between carotis communis and carotis interna:	30.5 degree
Branch angle between carotis communis and carotis externa:	13 degree

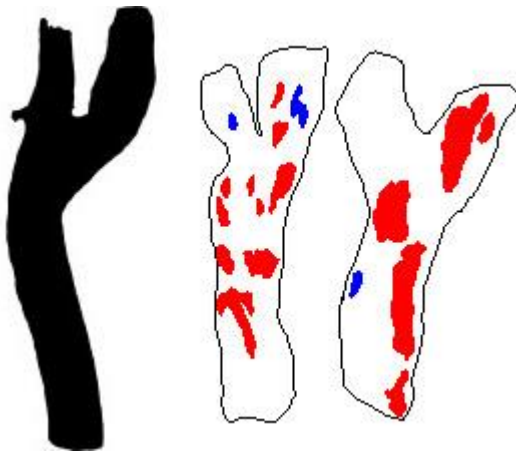
Carotid bifurcation 10



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	56
Sex:	F
Side:	left
Basic disease of death:	Hypertension Disease
Direct cause of death:	Edema Cerebral
Diameter of carotis communis:	6.575 mm
Diameter of carotis externa :	4.775 mm
Diameter of carotid sinus:	7.125 mm
Diameter of carotis interna:	5.925 mm
Branch angle between carotis communis and carotis interna:	31 degree
Branch angle between carotis communis and carotis externa:	19 degree

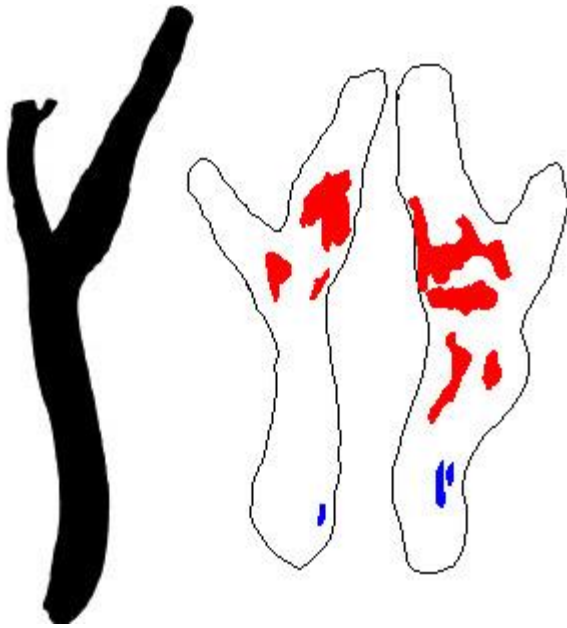
Carotid bifurcation 11



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	52
Sex:	F
Side:	right
Basic disease of death:	Hypertension Disease
Direct cause of death:	Hemorragia Cerebral
Diameter of carotis communis:	8.425 mm
Diameter of carotis externa :	6.225 mm
Diameter of carotid sinus:	8.425 mm
Diameter of carotis interna:	6.65 mm
Branch angle between carotis communis and carotis interna:	23 degree
Branch angle between carotis communis and carotis externa:	13 degree

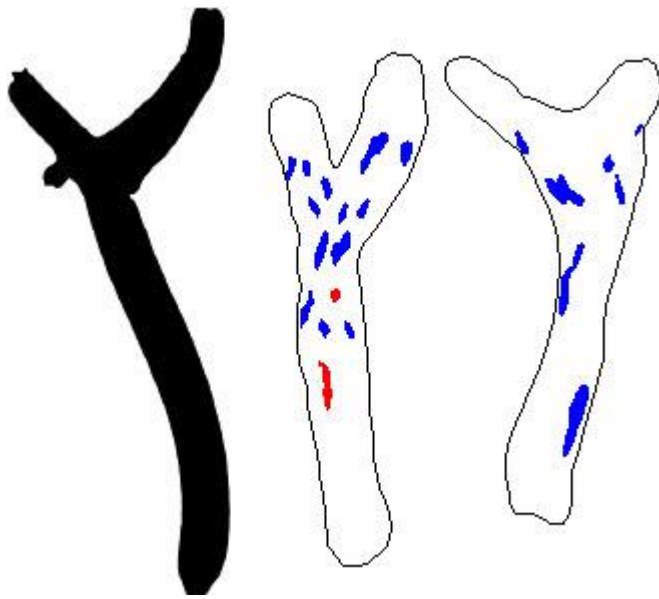
Carotid bifurcation 12



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	82
Sex:	F
Side:	right
Basic disease of death:	Atherosclerotic Disease
Direct cause of death:	Sepsis
Diameter of carotis communis:	7.25 mm
Diameter of carotis externa :	5.1 mm
Diameter of carotid sinus:	8.55 mm
Diameter of carotis interna:	6.225 mm
Branch angle between carotis communis and carotis interna:	27 degree
Branch angle between carotis communis and carotis externa:	13 degree

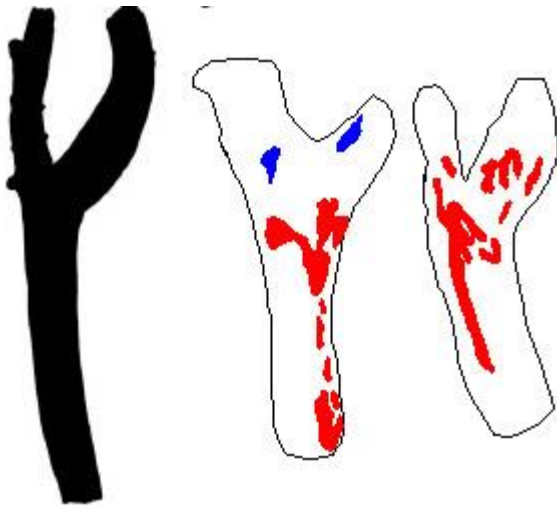
Carotid bifurcation 13



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	80
Sex:	M
Side:	right
Basic disease of death:	EPOC
Direct cause of death:	Bronconeumonia
Diameter of carotis communis:	7.6 mm
Diameter of carotis externa :	5.6 mm
Diameter of carotid sinus:	8.675 mm
Diameter of carotis interna:	6.25 mm
Branch angle between carotis communis and carotis interna:	44 degree
Branch angle between carotis communis and carotis externa:	31 degree

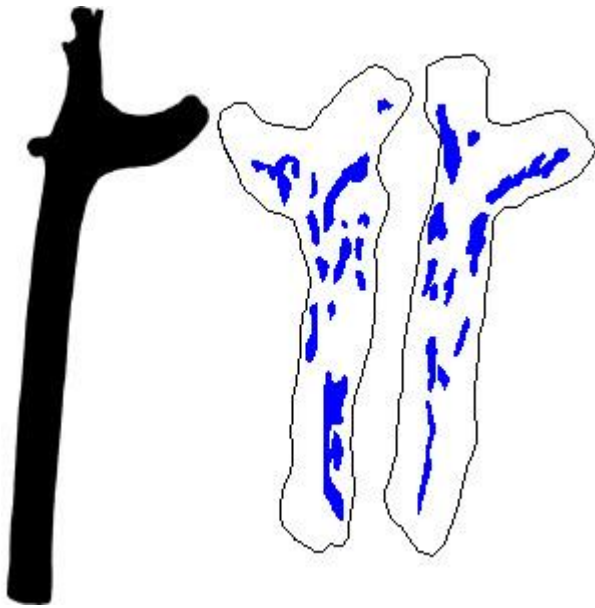
Carotid bifurcation 14



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	58
Sex:	M
Side:	left
Basic disease of death:	Atherosclerotic Disease
Direct cause of death:	
Diameter of carotis communis:	7.65 mm
Diameter of carotis externa :	5.975 mm
Diameter of carotid sinus:	8.725 mm
Diameter of carotis interna:	6.85 mm
Branch angle between carotis communis and carotis interna:	42 degree
Branch angle between carotis communis and carotis externa:	13.5 degree

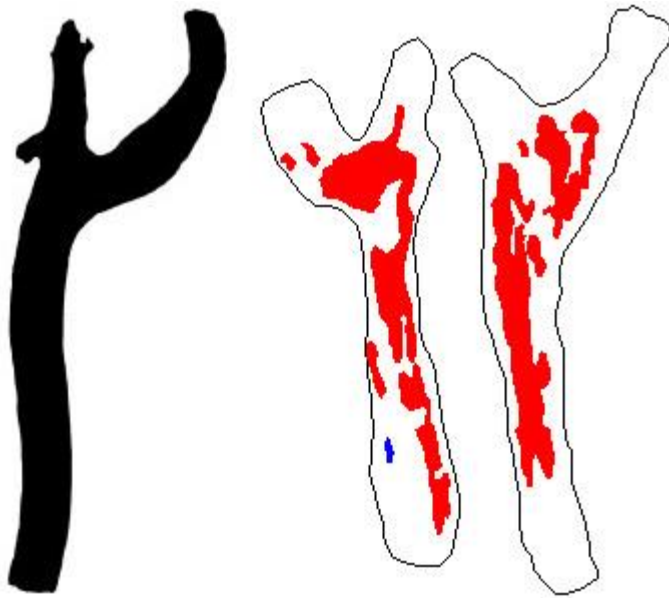
Carotid bifurcation 15



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	80
Sex:	M
Side:	left
Basic disease of death:	EPOC
Direct cause of death:	Bronconeumonia
Diameter of carotis communis:	6.65 mm
Diameter of carotis externa :	5.75 mm
Diameter of carotid sinus:	8.35 mm
Diameter of carotis interna:	5.925 mm
Branch angle between carotis communis and carotis interna:	80 degree
Branch angle between carotis communis and carotis externa:	12 degree

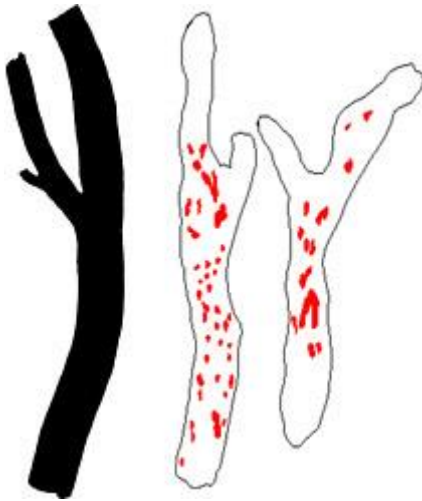
Carotid bifurcation 16



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	52
Sex:	F
Side:	left
Basic disease of death:	Hypertension Disease
Direct cause of death:	Hemoraggia cerebral
Diameter of carotis communis:	8 mm
Diameter of carotis externa :	5.675 mm
Diameter of carotid sinus:	8.325 mm
Diameter of carotis interna:	6.075 mm
Branch angle between carotis communis and carotis interna:	33 degree
Branch angle between carotis communis and carotis externa:	30 degree

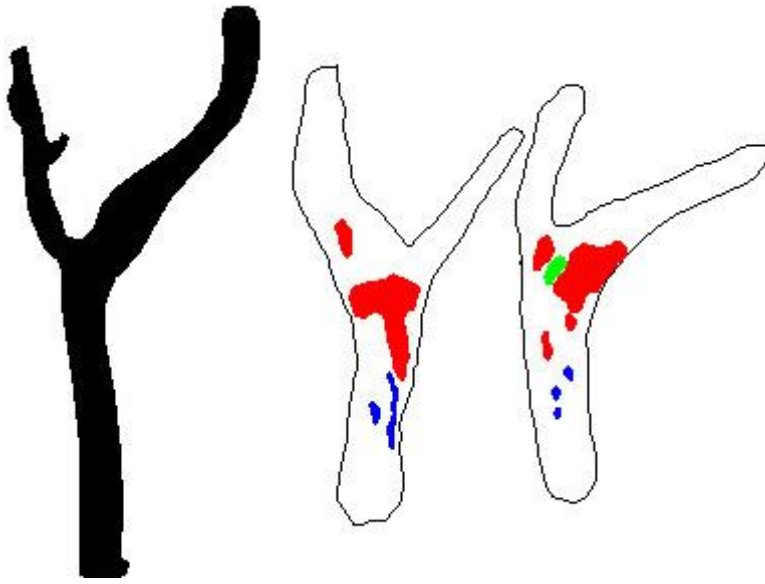
Carotid bifurcation 17



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	90
Sex:	F
Side:	left
Basic disease of death:	Hypertension Disease
Direct cause of death:	Encefalopatia hipertensiva
Diameter of carotis communis:	6.8 mm
Diameter of carotis externa :	4.35 mm
Diameter of carotid sinus:	6.6 mm
Diameter of carotis interna:	6.45 mm
Branch angle between carotis communis and carotis interna:	9 degree
Branch angle between carotis communis and carotis externa:	20 degree

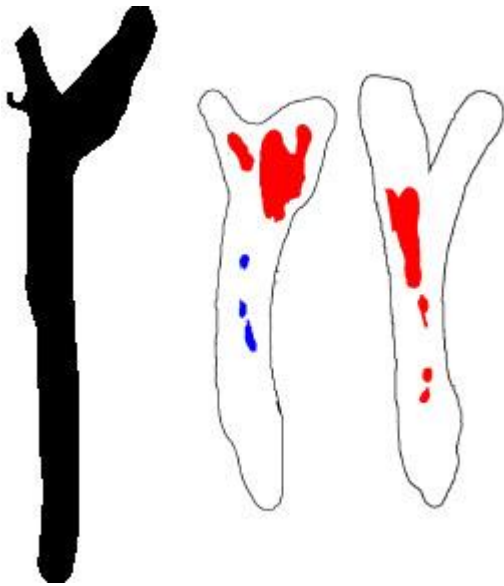
Carotid bifurcation 18



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	70
Sex:	F
Side:	left
Basic disease of death:	EPOC
Direct cause of death:	Bronconeumonia
Diameter of carotis communis:	6.1 mm
Diameter of carotis externa :	4.56 mm
Diameter of carotid sinus:	8.325 mm
Diameter of carotis interna:	6.7 mm
Branch angle between carotis communis and carotis interna:	35 degree
Branch angle between carotis communis and carotis externa:	46 degree

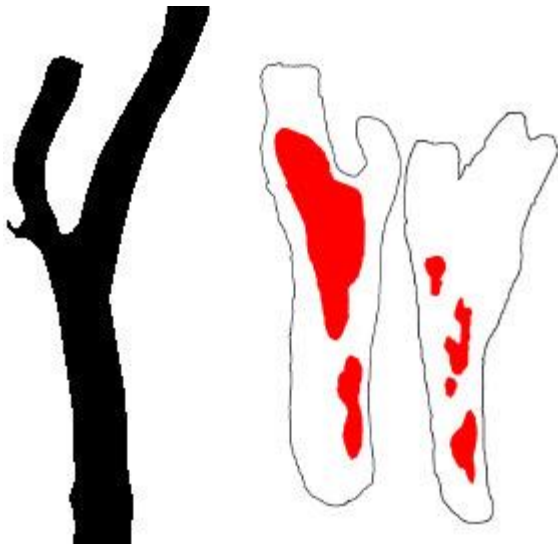
Carotid bifurcation 19



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	70
Sex:	F
Side:	left
Basic disease of death:	EPOC
Direct cause of death:	Bronconeumonia
Diameter of carotis communis:	6.225 mm
Diameter of carotis externa :	5.3 mm
Diameter of carotid sinus:	8.5 mm
Diameter of carotis interna:	5.325 mm
Branch angle between carotis communis and carotis interna:	56 degree
Branch angle between carotis communis and carotis externa:	30 degree

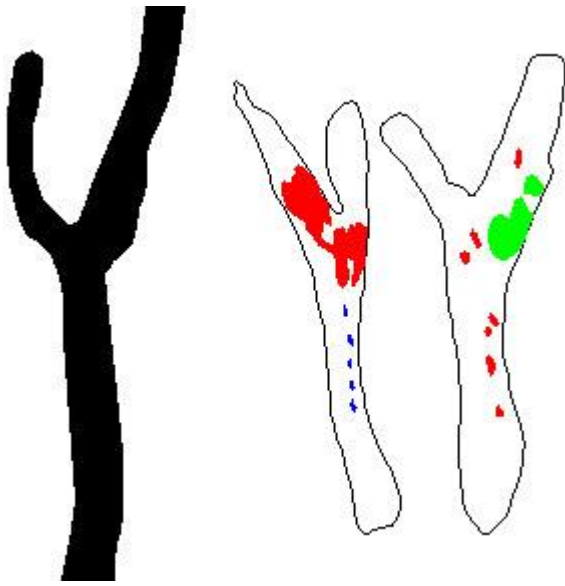
Carotid bifurcation 20



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	74
Sex:	M
Side:	left
Basic disease of death:	Atherosclerotic Disease
Direct cause of death:	Aneurysma
Diameter of carotis communis:	7.725 mm
Diameter of carotis externa :	5 mm
Diameter of carotid sinus:	7.6 mm
Diameter of carotis interna:	6.075 mm
Branch angle between carotis communis and carotis interna:	29.5 degree
Branch angle between carotis communis and carotis externa:	21 degree

Carotid bifurcation 21



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	81
Sex:	M
Side:	left
Basic disease of death:	Atherosclerotic Disease
Direct cause of death:	IMA
Diameter of carotis communis:	7.475 mm
Diameter of carotis externa :	5.35 mm
Diameter of carotid sinus:	8 mm
Diameter of carotis interna:	5.7 mm
Branch angle between carotis communis and carotis interna:	45 degree
Branch angle between carotis communis and carotis externa:	42 degree

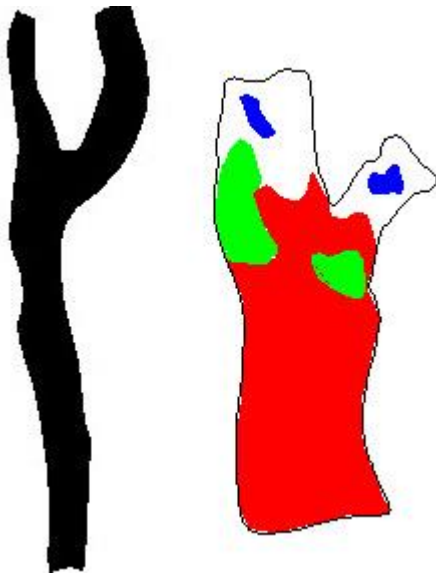
Carotid bifurcation 22



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	57
Sex:	M
Side:	right
Basic disease of death:	Hepatocirrhosis
Direct cause of death:	Hepatocirrhosis
Diameter of carotis communis:	5.45 mm
Diameter of carotis externa :	5.05 mm
Diameter of carotid sinus:	7.55 mm
Diameter of carotis interna:	4.85 mm
Branch angle between carotis communis and carotis interna:	31 degree
Branch angle between carotis communis and carotis externa:	14 degree

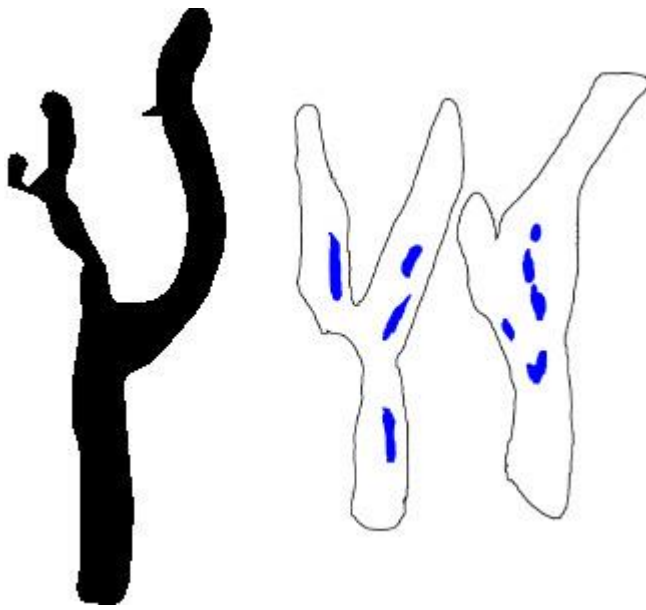
Carotid bifurcation 23



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	
Sex:	
Side:	right
Basic disease of death:	
Direct cause of death:	
Diameter of carotis communis:	6.95 mm
Diameter of carotis externa :	6.05 mm
Diameter of carotid sinus:	7. 15 mm
Diameter of carotis interna:	7 mm
Branch angle between carotis communis and carotis interna:	27 degree
Branch angle between carotis communis and carotis externa:	29 degree

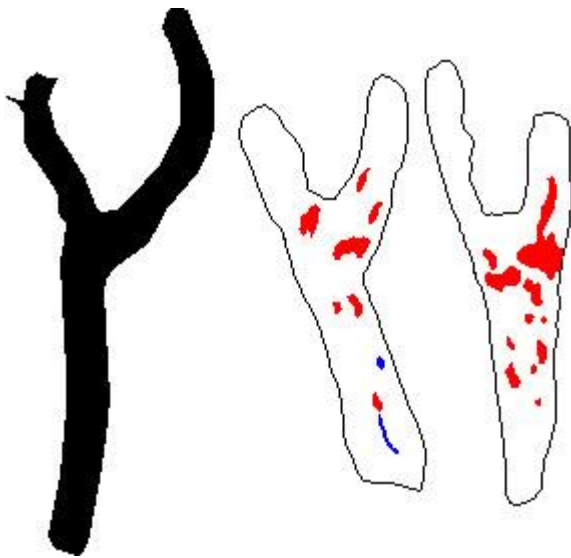
Carotid bifurcation 24



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	76
Sex:	M
Side:	right
Basic disease of death:	Malignant Neoplasm
Direct cause of death:	Malignant Neoplasm
Diameter of carotis communis:	7.2 mm
Diameter of carotis externa :	5.25 mm
Diameter of carotid sinus:	8.05 mm
Diameter of carotis interna:	5.85 mm
Branch angle between carotis communis and carotis interna:	63 degree
Branch angle between carotis communis and carotis externa:	24 degree

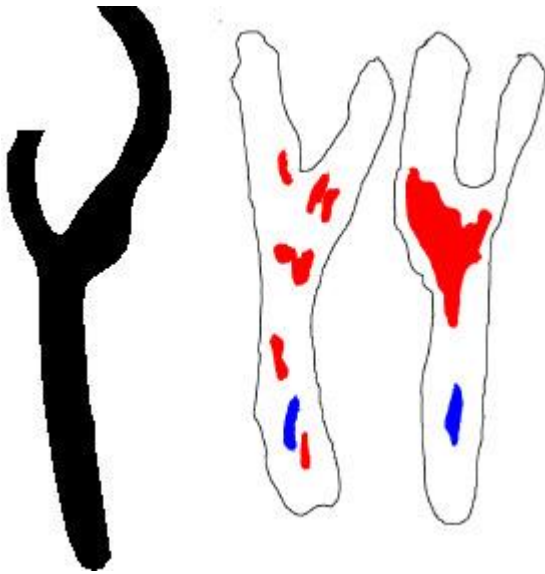
Carotid bifurcation 25



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	67
Sex:	M
Side:	left
Basic disease of death:	EPOC
Direct cause of death:	Insuficuenca respiratori
Diameter of carotis communis:	5.725 mm
Diameter of carotis externa :	4.95 mm
Diameter of carotid sinus:	7.65 mm
Diameter of carotis interna:	4.85 mm
Branch angle between carotis communis and carotis interna:	44 degree
Branch angle between carotis communis and carotis externa:	28 degree

Carotid bifurcation 26



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	71
Sex:	M
Side:	right
Basic disease of death:	Malignant Neoplasm
Direct cause of death:	Pulmonary Thromboembolism
Diameter of carotis communis:	6.2 mm
Diameter of carotis externa :	3.85 mm
Diameter of carotid sinus:	7.65 mm
Diameter of carotis interna:	4.65 mm
Branch angle between carotis communis and carotis interna:	51 degree
Branch angle between carotis communis and carotis externa:	26.5 degree

Carotid bifurcation 27



The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	
Sex:	
Side:	left
Basic disease of death:	
Direct cause of death:	
Diameter of carotis communis:	5.7 mm
Diameter of carotis externa :	4.6 mm
Diameter of carotid sinus:	7.4 mm
Diameter of carotis interna:	4.9 mm
Branch angle between carotis communis and carotis interna:	34 degree
Branch angle between carotis communis and carotis externa:	50 degree

Carotid bifurcation 28

The left branch is the carotis externa; the right branch is the carotis interna. The blue marks show fatty streaks and the red one fibrous plaques. The morphometrical analysis was done by Prof. Dr. J. Fernandez-Britto, Department of Pathology, Hospital Dr. C. J. Finlay, Havana, Cuba.

Age:	87
Sex:	M
Side:	right
Basic disease of death:	Atherosclerotic Disease
Direct cause of death:	IMA
Diameter of carotis communis:	6.05 mm
Diameter of carotis externa :	5.45 mm
Diameter of carotid sinus:	5.8 mm
Diameter of carotis interna:	5.125 mm
Branch angle between carotis communis and carotis interna:	33 degree
Branch angle between carotis communis and carotis externa:	48 degree