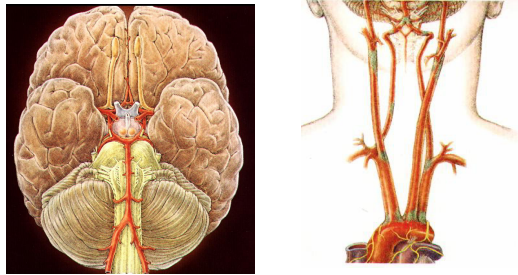
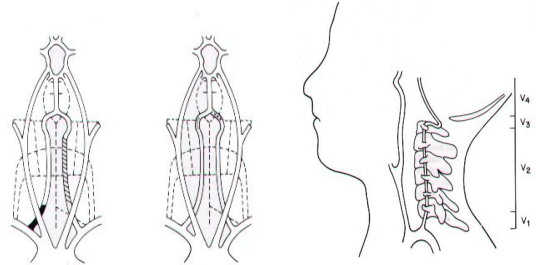


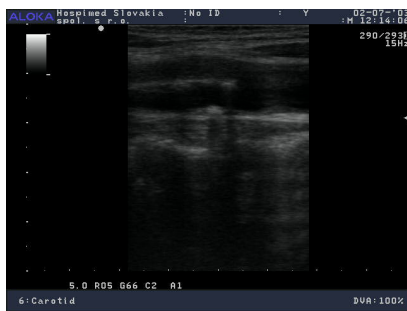
Anatómia mozgovej cirkulácie



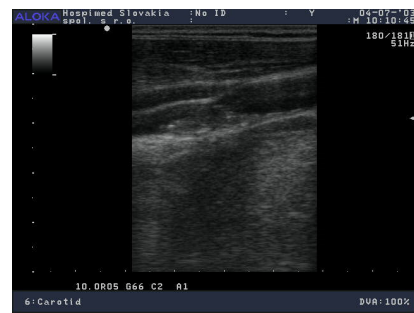
Anatómia



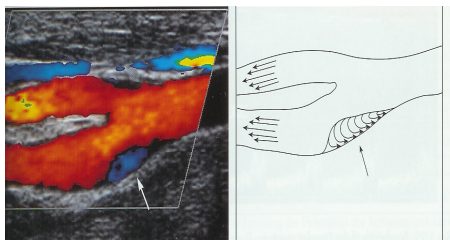
B-scan bifurkácia karotíd



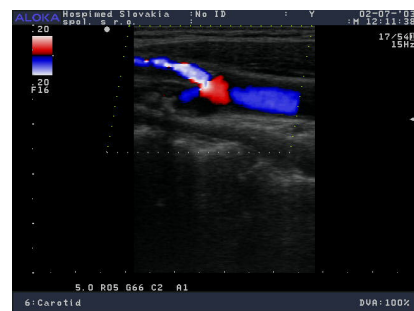
B-scan bifurkácia karotíd



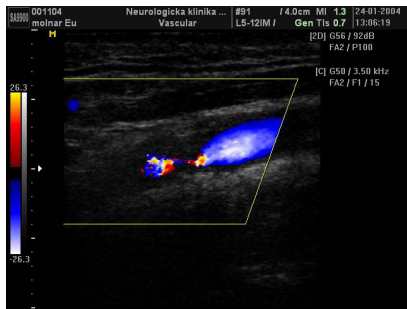
B-scan bifurkácia karotíd



B-scan bifurkácia karotíd



B-scan bifurkácia karotíd



Duplexný ultrazvuk B-scan + Doppler

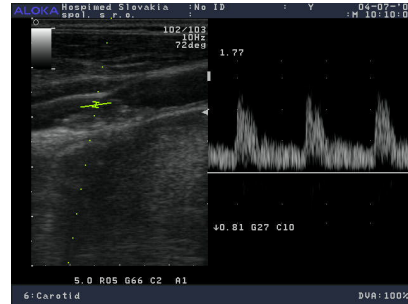


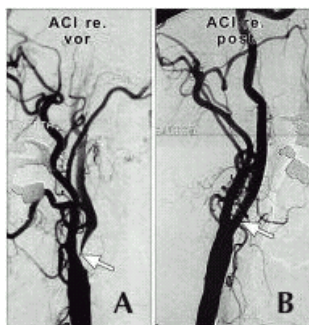
TABLE 14 INTERNAL CAROTID STENOSIS

Stenosis %	Peak Systolic Velocity	Blood flow	End Diastolic Velocity
≤ 50%	≤ 120 cm/s	Laminar	≤ 90 cm/s
51-70%	120-140 cm/s	Turbulent	≤ 90 cm/s
71-95%	≥ 240 cm/s	Turbulent	≥ 90 cm/s
96-99%	≤ 120 cm/s	Turbulent	≤ 90 cm/s
Occlusion	∓		∓

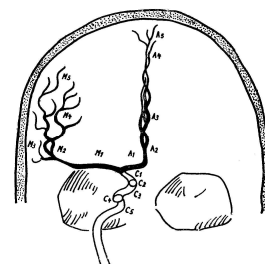
Table 15 INTERNAL CAROTID STENOSIS CLASSIFICATION

Classification according haemodynamics	Classification according degree of stenosis	Classification according % reduction of lumen
Haemodynamics is not influenced	Light stenosis	≤ 50%
	Influenced haemodynamics	
	Mild stenosis	51-70%
	Moderate stenosis	71-95%
	Severe stenosis	96-99%
Occlusion	Occlusion	Occlusion

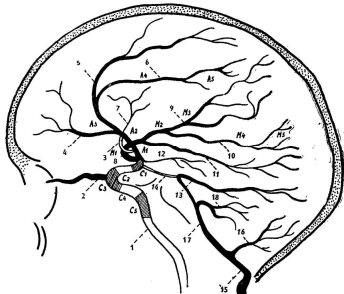
Angiografia



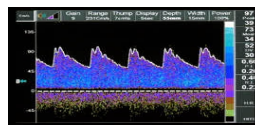
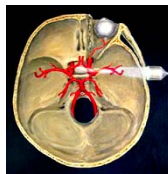
Angiografia



Angiografia



Transkraniálny doppler - TCD



- Neinvazívna ultrazvuková metóda na meranie rýchlosti krvného prietoku v proximálnej časti veľkých mozgových ciev

TABLE 16 IDENTIFICATION OF INTRACRANIAL ARTERIES

Artery	Transducer position	Depth of sample volume (mm)	Direction of flow
MCA	transtemporal	30-60	Toward
ACA/MCA bifurcation	Transtemporal	55-65	Bidirectional
ACA	Transtemporal	60-80	Away
PCA (P1)	Transtemporal	60-70	Toward
PCA (P2)	Transtemporal	60-70	Away
ICA	Transtemporal	55-60	Toward
OA	Transorbital	40-60	Toward
VA	Transforaminal	60-90	Away
BA	Transforaminal	80-120	Away

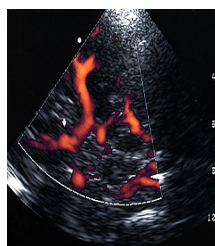
TCD



TCD a TCCS

- **Indikácie**
- Cievne mozgové príhody
- Peroperačný monitoring pri operáciách na extrakraniálnych cievach mozgu
- Subarachnodiálne krvácanie (aneurizmy, arteriovenózne malformácie, spazmy)
- Mozgová smrť
- Hodnotenie účinku liekov

Transkraniálny farebne kódovaný ultrazvuk - TCCS



- Neinvazívna metóda na zobrazenie intrakraniálnych ciev mozgu a meranie prietokových rýchlostí v týchto cievach