



# 颈动脉超声检查在缺血性脑血管病诊断中的应用价值

The value of cervical vascular ultrasound in the diagnosis of ischemic cerebrovascular diseases

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**【摘要】**颈动脉超声检查在缺血性脑血管病诊断中的应用价值。研究时间为2021年2月-2022年8月，对照组30例为健康体检者，观察组30例为我院缺血性脑血管病患者，两组均给予颈动脉超声，观察组患者数字血管造影检查，以对比两组颈动脉狭窄率、两组斑块检出率、两组内膜中层厚度、DSA和颈动脉超声检查作为观察指标。结果：观察组未见狭窄小于对照组，轻度、中度、重度和闭塞均高于对照组，颈动脉狭窄率为96.67%高于对照组43.33%，观察组单发斑块检出率为20.00%，多发斑块为60.00%高于对照组6.67%，10.00%，无斑块20.00%低于对照组83.33%，两组内膜中层厚度检查发现，观察组颈内动脉、颈总动脉数值高于对照组，缺血性脑血管病患者的内膜中层厚度在颈动脉检查中较为明显，DSA在缺血性脑血管病中检查准确性最高，DSA检查未见狭窄1例，轻度狭窄18例，中度狭窄8例，重度狭窄2例，闭塞1例，颈动脉超声与DSA比较后检查准确率为90.00%，检查狭窄一致性较高(P<0.05)。结论：颈动脉超声检查缺血性脑血管病，疾病检出率较高，在推广中具有显著价值。

**[Abstract]**Objective To explore the application value of cervical vascular ultrasound in the diagnosis of ischemic cerebrovascular diseases. Methods The study time was from February 2021 to August 2022. The control group consisted of 30 healthy people, and the observation group consisted of 30 patients with ischemic cerebrovascular disease in our hospital. Both groups were given cervical vascular ultrasound. The observation group consisted of patients with digital angiography. The carotid stenosis rate, plaque detection rate, intima-media thickness, DSA and cervical vascular ultrasound were used as the observation indicators. Results In the observation group, no stenosis was smaller than that in the control group, mild, moderate, severe and occlusion were higher than those in the control group, the carotid artery stenosis rate was 96.67% higher than that in the control group 43.33%, the detection rate of single plaque in the observation group was 20.00%, multiple plaque was 60.00% higher than that in the control group 6.67%, 10.00%, and no plaque was 20.00% lower than that in the control group 83.33%. The intima-media thickness of the internal carotid artery and common carotid artery in the observation group was higher than that in the control group, The intima-media thickness of patients with ischemic cerebrovascular disease was more obvious in carotid artery examination. DSA had the highest accuracy in ischemic cerebrovascular disease. DSA showed no stenosis in 1 case, mild stenosis in 18 cases, moderate stenosis in 8 cases, severe stenosis in 2 cases, and occlusion in 1 case. The accuracy of cervical vascular ultrasound compared with DSA was 90.00%, and the consistency of stenosis was high (P<0.05). Conclusion The detection rate of ischemic cerebrovascular disease by cervical vascular ultrasound is high, which has significant value in popularization.

**【关键词】**颈动脉超声；缺血性脑血管病；诊断；应用价值

**[Key words]**Cervical vascular ultrasound; Ischemic cerebrovascular disease; diagnosis; Application value

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## 1 资料与方法

### 1.1 研究对象

研究对象为2021年2月-2022年8月在我院就诊的缺血性脑血管病患者30例，年龄45-74岁，平均年龄59.25±2.35岁。对照组为同期健康体检者30例，年龄46-75岁，平均年龄59.25±2.49岁。两组患者在性别、年龄、病程等方面无显著差异(P>0.05)。

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残弄孰爱廊残滋藩 琥眷搔芳悒纒壑搯候能立桎濒搔芳 屿编シ

群荆纒壑砑搂肃孰 米谦俐冻 桃棋拙俳诀咧 里琨扛 腔番莞邦米谦嗣灯啻泥嗅灯啻镶托悒待 钧诀壑泣稠米谦灯 啻 谁葡米谦播铈熙稠悒铈咳苡 10-20ml 虔酏此纒 爵米谦 策灯啻ザ琐灯啻鄱祗纒砑搂 熙稠砑搂单 米谦悒悒峙墨 韭能番镀灯啻戴柔纒番德镀滇狩シ

1.3 琥眷脾树

蔽爵舵敖莢策灯啻屿编岳ザ敖莢嚷候肃簇岳ザ敖莢搯口 澳亢端辆ザDSA 夫策纒纒壑极肃孰铂八琥眷脾树シ

- 1 爵舵雍纒漫嗒纒壑侄趾米谦夫播肃兼策灯啻屿编 挽椿シ
- 2 梳流敖莢肃孰嚷候挽椿 鼎多嚷候ザ几多嚷候ザ 柔嚷候 杪塾肃簇岳シ
- 3 舵炆敖莢策搯灯啻ザ策莽灯啻抓搯口澳亢端辆シ
- 4 琥眷莢雍纒漫嗒纒壑米谦瘁呆铈垛策纒纒壑极ザ

群荆纒壑砑搂肃孰 蔽 DSA 肃孰八树疵鸵炆敖莢编极肃孰 屿编 沈琦屿编ザ旌辆屿编ザ澳辆屿编ザ铈辆屿编ザ褊活 抓疵佞岳シ

1.4 芥杪警瘁拭

SPSS21.0 瘁拭群葡シ杪群暄扰铈招祝瘁鸵纒悒 苳嗜铈 垛 x<sup>2</sup>シ杪铈暄扰招  $\bar{x} \pm s$  纒悒 苳嗜铈招 t 祓招 Kappa 就仍挨幙漫肃酏 P 0.05 躡悒芥杪警抹霸シ

2 苳嗜

2.1 爵舵敖莢策灯啻屿编岳

琥眷莢沈琦屿编峻绑爵毅莢 旌辆ザ澳辆ザ铈辆夫褊活 宏跳绑爵毅莢 策灯啻屿编岳八 96.67% 跳绑爵毅莢 43.33% P 0.05 シ悒挽琦纒 1シ

表 1 对比两组颈动脉狭窄率[n (%) ]

莢呆	n	沈琦屿编	旌辆屿编	澳辆屿编	铈辆屿编	褊活	屿编岳
琥眷莢	30	1 3.33	18 60.00	8 16.00	2 6.67	1 3.33	29 96.67
爵毅莢	30	17 56.67	9 30.00	3 10.00	1 3.33	0 0	13 43.33
x <sup>2</sup>							5.694
P							0.05

2.2 爵舵敖莢嚷候肃簇岳

琥眷莢鼎多嚷候肃簇八 20.00% 几多嚷候八 60.00% 跳绑爵毅莢 6.67% 10.00% 柔嚷候 20.00% 病绑爵毅莢 83.33% P 0.05 シ苳嗜煎纒 2シ

表 2 两组斑块检出率比较[n (%) ]

莢呆	n	鼎多嚷候	几多嚷候	柔嚷候	肃簇岳
琥眷莢	30	6 20.00	18 60.00	6 20.00	24 80.00
爵毅莢	30	2 6.67	3 10.00	25 83.33	5 16.67
x <sup>2</sup>					2.723
P					<0.05

2.3 爵舵敖莢搯口澳亢端辆

敖莢搯口澳亢端辆肃孰多酏 琥眷莢策搯灯啻ザ策莽灯啻群超跳绑爵毅莢 雍纒漫嗒纒壑侄趾米谦抓搯口澳亢端辆痕策 灯啻肃孰澳炆八洒涩 P 0.05 シ悒挽琦纒 3シ

表 3 两组内中膜厚度检查比较 ( $\bar{x} \pm s$ , mm)

莢呆	n	搯口澳亢端辆	
		策搯灯啻	策莽灯啻
琥眷莢	30	1.23 ± 0.12	1.45 ± 0.23
爵毅莢	30	0.72 ± 0.24	0.72 ± 0.05
t		8.254	21.584
P		<0.05	<0.05

2.4 爵舵 DSA 夫策纒纒壑极肃孰

DSA 痕雍纒漫嗒纒壑澳肃孰疵佞漫摄跳 DSA 肃孰沈琦屿编 1 材 旌辆屿编 18 材 澳辆屿编 8 材 铈辆屿编 2 材 褊 活 1 材 策纒纒壑极爱 DSA 舵炆番肃孰疵佞岳八 90.00% 肃孰屿编挨幙漫炆跳 Kappa 超=0.7458 P<0.05 シ悒挽琦纒 4シ

表 4 对比 DSA 和颈部血管超声检查 (例)

策纒纒壑极	DSA					阅杪
	沈琦屿编	旌辆屿编	澳辆屿编	铈辆屿编	褊活	
沈琦屿编	1	1	0	0	0	1
旌辆屿编	1	16	1	0	0	18
澳辆屿编	0	2	6	0	0	8
铈辆屿编	0	0	0	2	0	2



褊活	0	0	0	0	1	1
闾杪	2	19	7	2	1	30

3 桌板

箒灯啻爵寂罌罌特戴彩纒铂招 饫簇醢趾朵遏菱特嗉罌  
 纒壑侄趾 薤纒漫嗉纒壑侄趾遏兆几互侄趾菱特 爰米揀痢  
 黥ザ漫呆ザ恢仇侄趾鄱好苾滋初 米揀扒镰遏琦晓播骸神ザ  
 楠璧蜚佗ザ邹俊鄱只幼<sup>[1]</sup>シ米揀侄趾祗纒漫德钶 遏簇醢嗉  
 忘唛ザ嗉幟ザ贮治鄱立多只 侄趾疾多ザ幟图岳炆跳 鼎莛  
 菜蠓只幼夫播庐柔坞爵米揀侄趾非愁掉瘁程呆 痕侄趾桤认  
 澳螭爵米揀扒纒壑趾朵祗纒撙乘肃孰 瘁认米揀嗉罌蹿播婉  
 椿<sup>[2]</sup>シDSA 搔肃孰纒壑趾朵抓炆八仇视抓幼坞 饼肃孰悞挨  
 旧豆蛲漫 箒罌纒壑轳极搔挨互柔搭ザ钶疾漫炆笈抓幼坞  
 扒镰脸招炆八删砢 悞泉琥眷箒罌屿谗夫嚷候婉椿 绊璇米  
 揀冀嗉纒下朵佃 爵灯啻苜双伉佃肃孰夫瘁认悞钶珧抹霸<sup>[3]</sup>シ  
 贽谏享嗜纒洒 琥眷苾沈琦屿谗峻绑爵毅苾 旌辆ザ澳

辆ザ钶辆夫褊活宏跳绑爵毅苾 箒灯啻屿谗岳八 96.67%跳  
 绑爵毅苾 43.33% 琥眷苾鼎多嚷候肃簇八 20.00% 几多嚷  
 候八 60.00%跳绑爵毅苾 6.67% 10.00% 柔嚷候 20.00%病  
 绑爵毅苾 83.33% 敖苾搔口澳穴端辆肃孰多醢 琥眷苾箒  
 灯啻ザ箒苾灯啻群超跳绑爵毅苾 薤纒漫嗉纒壑侄趾米揀  
 抓搔口澳穴端辆痕箒灯啻肃孰澳炆八洒涩 DSA 痕薤纒漫嗉  
 纒壑澳肃孰疵侄漫撮跳 DSA 肃孰沈琦屿谗 1 材 旌辆屿谗  
 18 材 澳辆屿谗 8 材 钶辆屿谗 2 材 褊活 1 材 箒罌纒壑  
 轳极爰 DSA 鸵炆番肃孰疵侄岳八 90.00% 肃孰屿谗挨幟漫  
 炆跳 P<0.05 シ

甚蔼捏恣 痕脸招箒罌纒壑轳极肃孰薤纒漫嗉纒壑侄趾  
 悞讠示铂招 爵箒罌纒壑屿谗肃孰疵侄岳炆跳 憩闾哩晤歧  
 哩シ

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