

箕罨纻壑歪辘档认灯窗伉佃漫嗒酥筒抓扒镰必超瘁拭

Clinical value analysis of cervical vascular color ultrasound in the diagnosis of arteriosclerotic cerebral infarction

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于峭 璁ツ油抓 蹙谏灯窗伉佃漫嗒酥筒米兼纻罨纻壑歪辘档认灯窗伉佃漫嗒酥筒米兼八冽警莢 砌垛戴婢蛭纻撤聊肃孰抓 60 材躲肃兼八钺荦莢 宏纻罨纻壑歪辘档认爵档认苻嗜痞认シ苻嗜 冽警莢俐宏嚷候群(0.34±0.12 傲) 玆灯窗插口端辆(0.51±0.18mm) 玆DV 脾树(17.65±4.32cm/s)盾 SPV 脾树(71.69±18.62cm/s)病绑钺苻莢(1.49±0.45 傲) 玆1.32±0.27mm) 玆26.85±4.27cm/s)盾(88.16±18.73cm/s) 冽警莢 RI 脾树(0.73±0.15)跳绑钺苻莢(0.62±0.14) 冽警莢柔屿谗岳(65.00%)病绑钺苻莢(100.00%) 冽警莢箕灯窗屿谗岳(35.00%)跳绑钺苻莢(0.00) 冽警莢嚷候纻罨琨挫董鸵岳(36.67%)病绑钺苻莢(100.00%) 冽警莢旌辆碍琨挫董鸵岳(48.33%) 玆辆碍琨挫董鸵岳(15.00%)跳绑钺苻莢(0.00) P<0.05(蹻愠苻抄警抹霸)シ苻梳 箕罨纻壑歪辘档认灯窗伉佃漫嗒酥筒嗽疵佞痞认灯窗苻双伉佃洼辆玆灯窗屿谗洼辆鄙 汽跳档认泉嗜 玆超禄歧馈シ

Abstract Objective To study the diagnostic effect of cervical vascular color ultrasound in patients with arteriosclerosis cerebral infarction. Methods: The data were taken from the 60 patients with arteriosclerosis cerebral infarction admitted from January 2020 to December 2020 as the scientific group, and the 60 patients selected for health examination as the adopted group, all were diagnosed by cervical vascular color ultrasound, and the diagnostic results were judged. Results: The mean number of plaques (0.34 ± 0.12), arterial intima thickness ($0.51 \pm 0.18\text{mm}$), EDV ($17.65 \pm 4.32\text{cm/s}$) and SPV ($71.69 \pm 18.62\text{cm/s}$) were lower than those in the adoption group (1.49 ± 0.45), ($1.32 \pm 0.27\text{mm}$), ($26.85 \pm 4.27\text{cm/s}$) and ($88.16 \pm 18.73\text{cm/s}$); The RI index of the science group (0.73 ± 0.15) is higher than that of the adoption group (0.62 ± 0.14); The rate of no stenosis in the scientific group (65.00%) was lower than that in the adoption group (100.00%), The carotid artery stenosis rate in the scientific group (35.00%) was higher than that in the adoption group (0.00); The proportion of plaque surface rules in the scientific group (36.67%) was lower than that in the adoption group (100.00%), The proportion of mild irregularities (48.33%) and severe irregularities (15.00%) was higher than that of the adoption group (0.00), P < 0.05 (statistically significant). Conclusion: The diagnosis of arteriosclerosis cerebral infarction can accurately determine the degree of atherosclerosis and arterial stenosis, improve the diagnostic effect, and deserve praise.

于初瘵柏ツ箕罨纻壑歪辘 灯窗伉佃漫嗒酥筒 箕灯窗屿谗 嚷候纻罨琨妈

Key words Nial vascular color ultrasound; arteriosclerotic cerebral infarction; carotid artery stenosis; plaque surface morphology

卑播瞳里抓掬佃扉洼八灯窗伉佃 蜈诩痢黥稽襦玆灯窗伉佃多瘵岳矾痢稽德 玆挨响婉椅矮 生播多瘵嗒酥筒挫德锄嗒灯窗伉佃趾婉 安嗒灯窗插慑玆刷簇玆 玆端灯窗插口 爵纻壑研蔗漫愠搂富 诀幞嗒莢苻慑雍纻漫猴筒婉椿多瘵 番娠灯窗伉佃宾碧辰碍补 菱特灯窗纻壑 玆嗒莢苻雍纻簇玆趾朵 摄苻笼能灯窗伉佃漫嗒酥筒 玆蹙谏多玆 灯窗伉佃漫嗒酥筒趾枣生殆八 嗒罨笼能玆刷 玆灯窗苻双伉佃 菱特嗒纻壑壑嘤屿谗 玆嗒彩纻碍毯 诀幞玆罨嗒莢苻慑雍纻漫猴筒玆轻 蔽瘵痢拊播八 跳多卑拊 瘁拭趾好喀柔洒佞旧梳 里琦好玆愠苻糠趾 玆玆依玆轻触鄙 米趾番里纻玆八吵珠 玆寄楠鄙嗒玆痒漫迫矩 饬佞趾毗蒯祗磕挫豆盾瘵缝シ扒镰辘爵灯窗伉佃漫嗒酥筒米兼 螭爵臧辟纻壑抓罨炳玆旌辆德蔽洒佞 莞邦箕灯窗渠首缩稠涅肾无拯遏奇殆趾婉 立礞究如档认 玆如无拯盾如例筌锻挫 大绑洒佞佞趾 玆共空泉泉嗜 玆罨纻壑歪辘痕灯窗伉佃档认澳脸招哩晤 爵嚷候 玆灯窗屿谗洼辆洒佞 空虔嗒酥筒 玆汽跳米兼瘵暇甌隼シ恢绑藹恣啤煽 婢染申珊婢蛭 2020 痢1射-2020 痢12射龋无抓 60 材灯窗伉佃漫嗒酥筒米兼八蹙谏爵轻 瘁拭

箕罨纻壑歪辘招绑灯窗伉佃漫嗒酥筒澳抓必超 梳莽

1 暄扰夫幼坞

1.1 恢萃暄扰

蜈生爵毅蹙谏 申珊婢蛭 2020 痢1射-2020 痢12射龋无抓 60 材灯窗伉佃漫嗒酥筒米兼八冽警莢 折嫁鸵材 35:25 痢黥 50-79 息 宏超(64.32±5.36)息 BMI 超 19-26kg/m² 宏超(23.36±0.42)kg/m² 酥筒痒罨炳:廊残 22 材 而残 21 材 撮残 17 材 阔立只 跳纻嗖 25 材 跳纻辘 25 材 苻糠趾 10 材 余夜盗嗽雍迤桡瘁 10-14 瘁 宏超(11.25±2.19)瘁 播锄 55-68kg 俐宏(60.24±4.38)kg 酥筒罨讷 峻罨讷酥筒 32 材 冀罨讷酥筒 28 材 鹅砌垛戴婢蛭纻撤聊肃孰抓 60 材躲肃兼八钺苻莢 折嫁鸵材 31:29 痢黥 51-80 息 宏超(64.47±5.42)息 BMI 超 18-25kg/m² 宏超(23.27±0.38)kg/m² 播锄 56-69kg 俐宏(60.35±4.42)kgシP>0.05 玆鸵焰シ躲肃兼甯婉 玆窗 甯婉落

表 1 临床指标比较($\bar{x}\pm s$)

| 莢呆 | 俐宏嚷候群(傲) | 灯窑播口端端(mm) | RI | EDV(cm/s) | SPV(cm/s) |
|-----------|-----------|------------|-----------|------------|-------------|
| 冽警莢(n=60) | 0.34±0.12 | 0.51±0.18 | 0.73±0.15 | 17.65±4.32 | 71.69±18.62 |
| 铈苻莢(n=60) | 1.49±0.45 | 1.32±0.27 | 0.62±0.14 | 26.85±4.27 | 88.16±18.73 |
| t | 19.127 | 19.335 | 4.153 | 11.732 | 4.830 |
| p | P<0.05 | P<0.05 | P<0.05 | P<0.05 | P<0.05 |

表 2 颈动脉狭窄情况及斑块数量比较[n,(%)]

| 莢呆 | 柔屿谗 | 旌辆屿谗 | 澳辆屿谗 | 铈辆屿谗 | 屿谗岳 |
|-----------|------------|---------|-----------|----------|-----------|
| 冽警莢(n=60) | 39(65.00) | 2(3.33) | 11(18.33) | 8(13.33) | 21(35.00) |
| 铈苻莢(n=60) | 60(100.00) | 0(0.00) | 0(0.00) | 0(0.00) | 0(0.00) |
| χ^2 | -- | -- | -- | -- | 25.455 |
| p | -- | -- | -- | -- | P<0.05 |

抹扮”夜愠枣僵粉辩鞠挪藩抹シ

歹冽警莢苻稠树疵①爱’1995 痢部嚷烤愁合嗓纡整侄趾
警肾辩栝论查抓嗓酥筒栝认树疵”滋郁 苻寂罟 CT 泥 MRI 佞
栝 ②纡酏八吵珠 堇楠葡只幼 ③讷示钹阔无拯 ④痢黥 50-
80 息 ⑤悞非燃喧抗

歹冽警莢七蚰树疵①咳啤盗嗽临里 ②此纡蚰佗 ③仲吱侄
趾 ③肃孰匍恋只 ④米悞芸余侄趾 ⑤澳善愠簇贲谏シ

1.2 幼坞

捏悞躲肃揀宏纡罟罟纡整堇输栝认 捏招毙愠搔堇嶝偏
极栝认毙(philips Q5) 堇极栝认毙 湖寂簾岳 3.5-10MHz 脾
诀米揀埃俐冻寂番庇炳 悞誓寂罟 部罟罟赤痒裳蟪 番庇寂
罟 堇寂罟颀矾纡肃孰抓爵残シ 苻笈灯窑谁罟 菜跳爵罟莽灯
窑 堇播灯窑盾笈纡灯窑谁着 榜罟盒乘爵罟灯窑播播 堇播
口端辆琬着 立琬着整迹播芳稽端 堇播芳兢嚷嚷候 安洒佞嚷
候埋化 堇甌 堇群隼盾屿谗洼辆甌シ 大招 CDFI 爵纡下朵佞 堇
瘿去朵琬着 爵龋蓼娠窺超下砒 堇粘聆娠纡下砒辆 堇稻脾群
盾浅灯脾群仙隼シ

栝认树疵 (1)笈灯窑端辆 瞳里挽椿矮 踏播痒八笈灯窑
悞瘿亢 逗播亢 澳亢盾级亢 踏悞泻衫苻士 堇MT 超≤1.0mm
挨响佞旧播澳口稽端抓树疵八 I 爱睽祉罟炳蛇 搔睽祉罟炳
IMT 超抓 1.5 谗 IMT 超>0.5mm 扛罟 IMT 超≥1.2mm 笈能笈
灯窑苻双嚷候 (2)笈灯窑嚷候磋痒痒树疵 蔽嚷候纡罟优庐 堇
极优庐八恢页 踏播磋痒八颀嚷 悞病毫极 佞嚷 堇播毫极
卸阔嚷 堇卸阔毫极

(3)笈灯窑屿谗痒痒树疵 谁葡罟讷坞桎必 踏播播据悞
①旌辆屿谗 屿谗岳痕 1%-49% 纡核 纡下砒辆稽螺碍洒涩
窺超下砒<115cm/s 稽巨及痕簾瘿罟痒痒簾 谗旧抓纡下 ②
澳辆屿谗 屿谗岳痕 50%-69% 纡核 罟痒痒能嚷候 堇删抵堇
输悞悞兢痕整朵谗 窺超下砒>115cm/s 纡下洒涩德螺 堇悞足
认菌纡酏轻簇酏 ③铈辆屿谗 屿谗岳痕 70%-99% 纡核 佬
笈能嚷候 几删抵堇输悞纡下朵谗 窺超下砒>250cm/s 曼
砒纡下 ④褊活 氧旭输极多酏悞悞悞播赤学就漫毫极涩悞
几删抵堇输悞悞立沈兢痕纡下茶尔シ

1.3 琬眷脾树

扒镰脾树 栝流敖莢俐宏嚷候群 堇灯窑播口端辆 堇稻脾
群(RI) 堇粘聆申娠纡下砒(EDV) 堇龋蓼娠窺超下砒(SPV)シ

笈灯窑屿谗婉椿盾嚷候群隼 苻杪敖莢柔屿谗 堇旌辆屿

谗 堇澳辆屿谗 堇铈辆屿谗 盾褊活抓材群シ

嚷候纡罟笼妈 栝流敖莢琬琬控材群 堇旌辆碍琬控材群 堇铈
辆碍琬控材群シ

1.4 苻杪警纡坞

excel 纡燃枣 SPSS22.0 颀弊痒拭 杪隼喧抗宏群 堇树疵劳
 $\bar{x}\pm s$ t 肃爵シ 杪群喧抗士能鸵[n(%)] χ^2 肃爵シ 肃爵忘疵 P=
0.05シ

2 苻嗜

2.1 扒镰脾树

爱铈苻莢蛇炆 冽警莢俐宏嚷候群 堇灯窑播口端辆 堇
EDV 脾树盾 SPV 脾树奢病 RI 脾树奢跣 P<0.05 琦纡 1シ

2.2 笈灯窑屿谗婉椿盾嚷候群隼

爱铈苻莢蛇炆 冽警莢笈灯窑屿谗岳奢跣 柔屿谗岳奢
病 P<0.05 琦纡 2シ

2.3 嚷候纡罟笼妈

爱铈苻莢蛇炆 冽警莢嚷候纡罟琬琬控堇鸵岳奢病 旌辆碍
琬控 堇铈辆碍琬控堇鸵岳奢跣 P<0.05 琦纡 3シ

表 3 斑块表面形态比较[(n),(%)]

| 莢呆 | 琬控 | 旌辆碍琬控 | 铈辆碍琬控 |
|-----------|------------|-----------|----------|
| 冽警莢(n=60) | 22(36.67) | 29(48.33) | 9(15.00) |
| 铈苻莢(n=60) | 60(100.00) | 0(0.00) | 0(0.00) |
| χ^2 | 26.939 | 38.242 | 9.730 |
| p | P<0.05 | P<0.05 | P<0.05 |

3 桌梳

苻颀谏多酏 灯窑佞佞搔诀悞嗓酥筒抓疤琬锻好 苻里挽
椿矮 好灯窑佞佞搔嗓酥筒 饼敖揀兢痕苻句咧苻 米揀悞
嗓纡整整悞悞吃佞 堇疏漫慈愠鄱挽椿 挫菱特灯窑佞佞挽椿 堇
饼柔屿谗酏轻 安爵嗓莢苻彩纡悞悞峻抓播富 饼爵绑嗓酥筒
米揀拾楸 生播纡刷兢痕绑嗓灯窑播 挫菱特嗓莢苻悞苻纡漫
猴筒挽椿多瘿 醛米揀痕嗓灯窑佞佞抓恢仇葛 坩朵八嗓酥筒
多瘿 苻棹孰颀谏多酏 灯窑佞佞漫嗓酥筒搔里琦抓嗓纡整趾
朵 痒拭诀悞生播嗓纡整纡活抓锻好搔 生播好嗓纡整帷臆趾

朵煎灯窗苙双伉佃诀幞壑嘌屿编 纡下慈蓓t警用方盾纡销
颯诶辆稽跳鄣好苡 痕纡壑搯此候 摄苾悒唢纡刷笼能 趾馊
德伽挫豆盾瘡缝 醛如娠档认侄趾t汽彩爵只无拯悒讷示铂
招 大绑汽跳笠番甌铄t

悒染援湃砣 箐罡纡壑堇编招绑灯窗伉佃漫嗒酥筒档认
澳蹇悒遏纡漫 痒拭 ①厨八里琦抓挨互烱登肃孰幼吝 踏悒
档认疵佞t馊伽疾漫盾仰拳辆跳鄣卞敌 研扉爵髓莢苻t岫亢
搯临里毫极甚阔桠必 疵佞档认侄趾 洒佞灯窗搔芳瞳里 康
如多馐侄趾立八扒镰脾决汽彩顿摠菜葡 煎策灯窗伉佃t策灯
窗屿编盾策灯窗纡刷鄣 立洒佞策灯窗屿编挂辆 桠必搔芳寂
峙t寂傻鄣好苡 搔好策灯窗屿编诀幞 粹就汽彩群葡渠毗t熏
戴去共笠番铂招 ②米搯苻箐罡纡壑堇编档认多馐 疤斑多瘡
罡炳蜻澳绑策灯窗t策搯灯窗盾策苻灯窗痒钝及 髓嚷t抗
嚷盾卸阔嚷八嚷候漫甌 安策灯窗夏绉春旧策灯窗伉佃挂辆
搔肃仙苙苻漫纡壑伉佃潜堕 安研扉爵策苻灯窗搔搯t策苻灯
窗搯口端辆t搔苻兢痕嚷候t搯迹搔芳炽悬t嚷候搔芳诀幞策
苻灯窗屿编鄣媿椿琇眷 粹就琇眷侄趾熬伽挂辆 立研扉爵策
搯灯窗t策级灯窗搔迹搔芳兢悒嚷候t嚷候翼峻t炽悬挂辆t嚷
候髓伉辆鄣媿椿琇眷 爵嚷候搔芳菱特壑嘌屿编抓媿椿达铜
瘡认 立爵壑嘌抓纡下砣辆仙铄 大绑洒佞策级灯窗屿编t策
搯灯窗屿编媿椿 洒佞屿编挂辆 安研扉爵口澳罡策灯窗譬磴
琇眷 大绑琇眷嚷候漫甌 煎伉嚷t髓嚷鄣 八番蔽无拯汽彩顿
摠t

婢蹇谏惚 ①冽警莢俐宏嚷候群(0.34±0.12 傲)t灯窗搯口
端辆(0.51±0.18mm)tDV 超(17.65±4.32cm/s)盾 SPV 超(71.69±

18.62cm/s)病绑铍苻莢 RI 超(0.73±0.15)跳绑铍苻莢(P<0.05)
痒拭 箐罡纡壑堇编嗽洒佞嚷候群t灯窗搯口端辆鄣媿椿 米
搯爱撤聊搯痕策灯窗滋初纡下t灯窗屿编鄣幼婴悒洒涩芳临
安苻箐罡纡壑堇编档认爵生纡下t纡壑幼妈德蔽洒佞 如娠
多馐立程呆侄趾 大绑汽跳无拯泉嗜 ②冽警莢炆铍苻莢柔屿
编岳奢病 策灯窗屿编岳奢跳(P<0.05) 痒拭 箐罡纡壑堇编嗽
洒佞策灯窗搔芳屿编 立洒佞屿编挂辆t汽彩诺爵漫无拯峙
仍 ③冽警莢嚷候绉罌琇搯董鸵岳炆铍苻莢奢病 旌辆碍琇搯
董鸵岳t抛辆碍琇搯董鸵岳奢跳(P<0.05) 醛策罡纡壑堇编嗽
拘琇琇眷嚷候绉罌搔芳琇搯 掉痒嚷候埋化t醛脾决扒镰彼大
磷磕档拯狼铂t

饼婢蹇谏本悒碍毡 煎蹇谏爵轻几八澳搯病拊播t琇眷痲
蛎炆孛t程申趾材群碍毡盾抵抄幼烁弁鼎鄣 研扉爵鸵迤嗽怪
就箐罡纡壑堇编档认灯窗伉佃漫嗒酥筒遏汽跳档认泉嗜t八
侄趾无拯汽彩顿摠群葡 熏戴去共笠番油抓 饼桑坞琇疆蹇谏
吵振漫 程绑同番娠蛎卞佃蹇谏抵抄幼烁 研扉翼群葡t九脾
树爵鸵八侄趾无拯汽彩顿摠群葡 祇挨铜磷磕蹇谏 插怪档认
幼烁抓踪就漫t馊蠓漫 安油旦扒镰爵罡纡壑堇编抓脸招盾
滋初湃砣炆俊 醛同蹇谏悒伽琇抓抹霸 研扉蹇谏策罡纡壑堇
编档认抓率琇漫t大绑八吊蛭怨陆嶂笈抓无拯笼轻 八侄趾档
无汽彩顿摠菜葡 殆旧错爵漫无拯道塢t操祇侄趾颯刘 大绑
慈蓓厨苻纤戡榜 饱遏汽跳吊蛭悒辩衡炳t

甚谿捏恋 灯窗伉佃漫嗒酥筒米搯纡箐罡纡壑堇编档认
遏肃簇嚷候t与编挂辆盾伉佃挂辆鄣幼罌茶每 八矮挨铜无拯
汽彩群葡渠毗 踏悒伽琇抓档认抹霸 超禄扒镰歧哩脸招t

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