

# B 编菱诀矮佘莜虼绚髂铕爵摅痢跆初徉弈剖肾米搛枧鼐盗啾 盾佘莜虼绚抓搂富瘁拭

Influence of B-ultrasound-guided nerve block anesthesia on cognitive function and nerve block in elderly patients with hip arthroplasty

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チ峭 琏ッ浊抓沏泉 B 犏菱诀矮佘莜虼绚髂铕爵摅痢跆初徉涅肾米搛佘莜虼绚泉嗜盾枧鼐盗啾抓搂富シ纫坞 82 材跆初徉弈剖肾米搛铯招蜈生群荆绔坞宏瘁八赜谏荬夫爵毅荬 拖荬 41 材シ爵毅荬莞邦愁髂无拯 赜谏荬莞邦噗趺案佘莜虼绚呖阀愁髂无拯 琥眷敖荬佘莜虼绚泉嗜盾枧鼐盗啾朵佃>莩嗜爱爵毅荬滋鸵 赜谏荬痕肾番 2ザば 夫 24h 抓琮琚腾砰極瘁 VAS 洒涩奢病 t=24.863 ぜ6.317 ぜ3.051 ザ.605 宏 P<0.05 シ爱爵毅荬滋鸵 赜谏荬帖狲伎看招铼・背番 24h 蠛啻帷奇癞峙 PCA 招铼洒涩奢俊 裴壑阮疋北族蛏阮疋盾矮镰暇灯捏螈阮疋洒涩朵俊 t=29.256 ぜ9.070 ぜ7.291 ザ.520 ザ3.807;宏 P<0.05 シ爱爵毅荬滋鸵 赜谏荬髂铕旦抓弁腮赡稻幼妈肃孰铼绔 MMSE 極瘁劳临柔菥杪警抹霸 t=0.883 P>0.05 搦痕肾番 6h げ d 盾 3d 抓 MMSE 極瘁爵鸵劳临慑菥杪警抹霸 t=2.713 ぜ0.337 ば.182;宏 P<0.05 シ敖荬慑泉佘莜虼绚爵鸵劳临柔菥杪警抹霸 宏 P>0.05 シ爱爵毅荬滋鸵 赜谏荬寐氯・坎樊・塚。峙鄱碍嶂哆脸多瘴岳劳临柔菥杪警抹霸 P>0.05 シ草栀 B 犏菱诀矮佘莜虼绚爵绑摅痢跆初徉弈剖肾碍备遏多撇嶂笺抓佘莜虼绚泉嗜 蚵病蚍硬堙悛永单铼 安遏去共米搛抓枧鼐盗啾 如娠癞峙奢卞 慈俊矮镰暇灯盾簇蛏捏螈抓阮疋 蚵病立多只抓多瘴岳シ

FAbstract "Objective To investigate the effect of B-ultrasound-guided nerve block anesthesia on nerve block effect and cognitive function in elderly patients undergoing hip surgery. Methods Eighty-two patients with hip arthroplasty were divided into a study group and a control group by random number table method, 41 cases in each group. The control group was given general anesthesia, and the study group was given lumbosacral plexus block combined with general anesthesia. The effect of nerve block and changes in cognitive function were observed in the two groups. Results Compared with the control group, the visual analogue scale (VAS) of the study group was significantly lower at 2, 4, 8 and 24 hours after operation (t= 24.863, 26.317, 23.051, 9.605, all P<0.05). Compared with the control group, the dosage of sufentanil and the dosage of patient-controlled intravenous analgesia (PCA) 24 hours after the operation in the study group were significantly lower, and the extubation time, discharge time and time required for getting out of bed were significantly shorter (t=29.256, 39.070, 17.291, 7.520, 3.807; all P<0.05). Compared with the control group, there was no significant difference in the Mini-Mental State Examination (MMSE) score before anesthesia in the study group (t=0.883, P>0.05). There was statistical significance (t=2.713, 10.337, 6.182; all P<0.05). There was no significant difference in the effective nerve block between the two groups (all P>0.05). Compared with the control group, there was no significant difference in the incidence of adverse reactions such as nausea, vomiting and headache in the study group (P>0.05). Conclusion B-ultrasound-guided nerve block can not only play a good nerve block effect in elderly hip replacement, reduce the dose of opioids, but also improve the cognitive function of patients, early analgesia is better, reduce ambulation and The time required to discharge from the hospital reduces the incidence of complications.

デ初瘀桕ッ佘莜虼绚髂铕;佘莜虼绚;枧鼐盗啾 搂富 赜谏

Fkey words nerve block anesthesia; nerve block; cognitive function; influence; research

## 0 菱璧

 章暇甑铼>好同 铯垛纠愁慑泉抓髂铕崎仍爵蚵病米搛肾番枧 鼐盗啾蜞佗躇慑讷示抹霸>碛谏绔洒 髂铕纫吝搔摅痢跲初徉 涅肾米搛筒薄岳抓与阽搂富好苡シ佘莜虼绚爵绑摅痢跲初徉 涅肾米搛碍备遏慑泉慈俊筒薄岳 藩阮爵绑氯咤盗啾炝劳抓 米搛 稽德厨核肾娠纠愁漫シ爱同藩阮 B 犏菱诀矮遏漓登佘 莜虼绚扉诖遏琮佃 稽德绊涅肾抓能盗岳 祚遏蚵病立多只抓 多瘴岳シ浊旦 初绑痕 B 犏菱诀矮佘莜虼绚髂铕爵绑摅痢跆 初徉涅肾米搛抓泉嗜盾枧鼐盗啾抓搂富赜谏炝俊>祉痢拾 棋



 駅始初往弈剖肾抓摅痢米搛犒拾犒几>哥绑摅痢米搛拾楸 挨
切罂 帷膻抓膻播生啾碍认绨愍 鹅挨纫罂 鲁几米搛宾慑几 冱暮漫侄趾 捏蔽痕涅肾扉诖澳抓髂铕躇慑挨旧抓舡蛲>厨澳 肾番如娠枧鼐盗啾蜞佗 POCD 搔里琦抓立多只 米搛辩绔酝 簇枧鼐啾稻矮蚵 栊滤稻⁺枣璇稻绨愍 祢爵米搛肾番瘴暇甑 铼慑鲁冀抓搂富>摄赜谏柽就 涅肾扉诖澳抓髂铕泉嗜爱涅肾 米搛抓筒薄岳姿棋滋初 捏蔽糯戴挨冱慑泉ザ纠愁抓髂铕纫 吝 爵绑摅痢跆初徉弈剖肾米搛躇慑蠹里铷琏抓抹霸シ祉痢 拾 妮蛏痕爵同堙米搛就仍涅肾抓扉诖澳铯招 B 犏菱诀矮佘 莜虼绚髂铕 垛禄绊涩沱抓扒镰拯泉 湃碜煎矮シ

## 1 暄扰爱纫坞

1.1 挨峋暄扰肀硼 2020 痢 11 射幛 2021 痢 2 射痕伪珲澳吊悛冀警蚝科隙罹澳吊蛏棋躲无拯抓 82 材跆初徉弈剖肾米捷 铯招蜈生群荆绔坞宏瘁八赜谏荬夫爵毅荬 拖荬 41 材シ碛谏荬折 25 材 嫁 16 材;痢黥 61~72 恳 俐宏 67.5±1.2 恳;播铷50~85kg 俐宏 66.3±5.4 kg;尥合髂铕吊累盯辩 ASA 瘁荛: I荛 19 材 II荛 22 材;12 材米搛阀立虼活漫砑丸盗啾蜞佗 8 材宾旌澳辆跣纥镀 10 材宾氯露寄里 11 材阀立窗氯趾シ爵毅荬折 24 材 嫁 17 材;痢黥 61~72 恳 俐宏 67.5±1.2 恳;播铷50~85kg 俐宏 66.3±5.4 kg;ASA 瘁荛: I荛 19 材 II荛 22 材;12 材米搛阀立虼活漫砑丸盗啾蜞佗 8 材宾旌澳辆跣纥镀 10 材宾氯露寄里 11 材米搛阀立宽氯趾シ敖荬米搛抓挨峋暄扰鸵炝劳临柔菥杪警抹霸 P>0.05 躇慢遏鸵漫シ婶赜谏禄戴吊蛏憋枣僵粉辩挪疵 稠荬米搛宏鼐娩立厶奁藩抹扮シ

## 1.2 荇稠树疵爱七蚴树疵

- 1.2.1 荇稠树疵 1 跆趵趵爬; 2 米搛牟抹棋躲卑狼跸初 徉弈剖肾; 3 趾恩暄扰黠愁シ

### 1.3 纫坞

爵毅荬莞邦愁髂无拯 赜谏荬莞邦噗趺案佘莜虼绚呖阀 愁髂无拯シ敖荬宏斥拙仙氯遮盒(ECG)せた汪羰夫辆(SpO2) 痕 插毗扛髂抓幼妈矮痕嗣灯啻罡炳谖待肃仙慑搭纥镀ザ冯丸审 榜汪佃俪瘁镀(PETCO2)盾嗪遮掇篪脾群(BIS)シ赜谏荬痕 B 犏 (S-Nerve 藏橇吝犏极毙 尥合 SonoSite 仇饵)菱诀矮铯垛米残 祗坛佘莜虼绚髂铕 米残哓播插毗矾蔼 B 犏菱诀矮痕噗案 (L3~L4) 罡炳佘莜熙菌舷辆八 0.5%抓藁负懂好 20ml (AstraZeneca 仇饵 饽合) 趺案佘莜封核熙菌 0.5%抓藁负懂 好 播讷八 15ml 莽铼八 175mgシ瘤米搛佞枧虼绚泉嗜番 铯 垛柔咄始沟蘼蠛啻癞蠛:TCI 岸捂钫奇殆八 1.5~2.0μg/ml **坑** 狲伎看奇殆八 0.1μg/kg 钧 LMA 沟蘼弈稠 插砧嶂笺抓帷疤 冯飞忘俐シ爵毅荬铯垛沟蘼愁膻髂铕 蠛啻熙菌岸捂钫 楫诀 0.2mg/kg 楫诀钧 LMA 沟蘼弈稠 铯垛生溯砑丸シ米搛颧稠沟 蘼番 宏铯垛 TCI 岸捂钫祗纭髂铕 插毗 BIS 痕 45~55 涅肾 扉诖澳钗娩摁骞稽德岵狲伎看シ肾番敖荬米搛宏祗稠髂铕番

玫疾疽 钧沟蘼裴蚴罢番 琥普米捷姿幛韭愁泻铞シ米搛蠛啻 帷奇癞峙 (PCA)シ钕纫八岵狲伎看 2.5μg/kg 惋鸵喜狲钺 100mg 蔽瘴枣捉忘钧厨诎铴幛 100ml 唣煽单铼奇殆八 2ml/h 鼎跳皮镀愆德单铼八 3ml 鹛旧阮疋奇殆八 15minシ

#### 1.4 桠必树疵

研扉弁腮赡稻幼妈肃孰铼绔 (MMSE) 極必枧鼐盗啾シ MMSE 極率 < 24 瘁阮 瘩认米搛簇酝枧鼐盗啾蜞佗シ砑扉轲 肩桠旧纫坞澳染诧杳映(CAM-CR)爵抓轲肩娩椿祇纭極瘁 極 瘁 < 19 瘁阮 瘩认八沈簇酝轲肩;20~22 瘁八遏狰轲肩 > 22 瘁 八簇酝轲肩シ爵米搛抓墨琚虼绚诖辆祇纭瘁拭 疤琏瘁能 0 荛ザ 荛ザ 荛盾 3 荛シ 慑泉虼绚八墨琚虼绚诖辆痕 2 荛盾蔽 蔼シ瘤掇矮哓罹簇酝墨琚虼绚阮 瘩认米搛簇酝掇残虼绚シ

1.5 琥普牌树栊流敖荬肾番 2坩坩坩4h 抓琮琚腾砰極瘁 (VAS) 爵敖荬髂铕旦ザ肾番 6h坩d 盾 3d 抓 MMSE 極瘁ザ 24hPCA 癞峙悛永祗纭琥眷 藩阮爵米搛涅肾阮抓帖狲伎看单 铼+裝壑阮疋+矮镰暇灯阮疋+拨蛭阮疋盾敖荬簇酝抓碍嶂哆脸祇纭栊流シ

1.6 菥杪警瘁拭铯招 SPSS19.0 飚弊 杪铼暄扰荬疋鸵炝 铯招  $_{t}$  肃酹 杪群暄扰招鸵炝铯招  $_{X}$ 2 肃酹シ

## 2 莩嗜

- 2.1 敖荬伐阮页抓 VAS 爱爵毅荬滋鸵 赜谏荬肾番 2ザば夫 24h 抓 VAS 洒涩奢病(宏 P<0.05)シ
- 2.2 敖荬帖狲伎看ザCA 招铼盾肾番玫疾娩椿爱爵毅荬滋 鸵 赜谏荬帖狲伎看招铼 均番 24hPCA 招铼洒涩奢俊 裴壑 阮疋均簇蛏阮疋盾矮镰暇灯捏螈阮疋洒涩朵俊(宏 P<0.05)シ
- 2.4 敖荬佘莜虼绚爵鸵赜谏荬咦佘莜慑泉虼绚抓鸵材跣 绑爵毅荬 咦级残装佘莜+糯尽佘莜夫吼趵佘莜慑泉虼绚盾掇 残虼绚抓鸵材病绑爵毅荬 饼劳临宏柔菥杪警抹霸 (宏 P> 0.05)シ
- 2.5 敖荬碍嶂哆脸爵鸵爱爵毅荬(5 材 5 材 3 材)滋鸵 赜谏荬寐氯(8 材) †攻樊(4 材) ‡寂峙(4 材)多瘴岳爵鸵劳临柔菥杪警抹霸(χ2=0.820 0.120 0.160 宏 P>0.05)シ

# 3 枭栀

愁膻髂铕搔扒镰里招抓髂铕纫吝 招悛番碍辩藕殆涅肾 罡炳抓峙琚彪砀 米捷菜儒辩多瘴纥下灯稻警朵佃盾肾番冯飞玫疾蓓暮鄱婏椿 罡瘁米搛祚遏簇酝咤罡墨梳盾写蠛啻刷 鄱立多只 示腮菱特米搛筒薄>边但瘙鄱赜谏枧八爵摅瘌跆初徉弈剖肾米搛就仍愁膻髂铕疾阀佘莜虼绚髂铕纫吝 啾己汽蝶髂铕泉嗜 去共米搛枧鼐盗啾 蓼孛裴壑阮疋シ髂铕纫吝爵绑摅瘌跆初徉弈剖肾幛初铷琏 碍备辩搂富米搛抓核肾娠纠愁 祚搂富米搛抓瘴暇甑铼>瘤摅痢米搛抓噗琐簇酝愍纭去朵阮 钧辩诀幞蜩蔽铯垛琐壑搐髂铕崎仍シ愁膻髂铕番 立碍辩虼认涅肾掉晃抓峙墨彪砀 米搛本亿辩簇酝纥下灯稻警朵佃肾番冯飞玫疾蓓暮鄱娩椿 熬铷阮辩砹能咤罡墨梳圬蠕 鳢



刷鄱立多只 据腮诀幞米搛筒薄沙沟蘼搔挨冱里琦抓极褡蔼砑 遏部禄佘莜掉晃罡瘁祆灯盗啾善阮镶寄 藩阮祚遏虔酮表矩 漫待艳蔼彪 搂富纥下灯稻警诮旧化 徳砝肾番玫疾シ痕 В 犏 菱诀矮 佘莜荬荮碍备遏缏琥眷 汽跣绊琼铂能盗岳 祚遏蓼 孛悛永特泉阮疋 慈俊悛永单铼 汽跣纠愁漫シ佘莜虼绚抓髂 铕泉嗜碍备爱髂铕悛舷辆滋初 祚爱髂铕悛据铼滋初沙站狲伎 看世熙菌藁负懂好碍备遏多撇犄泉螺步而疋裰鄱优页 祚遏痕 炝孛抓阮疋搐多撇佘莜虼绚泉嗜シ婶跳赜谏绔洒佘莜虼绚髂 铕痕如娠遏蔽多撇奢笺抓癞峙泉嗜シ佘莜虼绚遏蓓璇米搛抓 如娠执峙墨 大绑如娠玫疾 漓登米搛康螺玫疾初徉盗啾 好 同赜谏荬米搛抓矮镰暇灯阮疋蔽盾簇蛏捏螈阮疋奢俊シ超禄 熙抹抓搔 瘤米搛肾番如娠暇灯阮 簇酝写蠛啻纥刷抓多瘴岳 钧辩冀冀蚵病>佘莜虼绚髂铕辩操祗纥壑抓浓羚娩椿 去共纥 祆 虔酮簇酝纥刷 蚵病嗪刷活鄱立多只 搦安 B 犏菱诀矮余 莜虼绚髂铕纠愁漫炝跣シMMSE 遏蔽桠必米搛抓肾番如娠枧 鼐盗啾 躇慑弁藏腮纭<del>¹</del>遏蠼漫跣抓优页シ婶跳赜谏汽偬佘莜 虼绚呖阀沟蘼愁髂矮跲初徉弈剖肾遏蔽蓓璇米搛抓枧鼐盗啾 遏啾搔兆绑:(1)蚍硬堙悛永碍备辩砹能米搛抓嗪栊滤+规鼐盗啾簇酝蜞佗 搦安赜谏荬米搛抓蚍硬堙悛永部招铼洒涩奢病 疋棋慈俊绊表矩;(2)涅肾阮脸艳哆脸搔砹能米搛簇酝肾番轲肩抓初瘀搂富好苡 佘莜虼绚遏奢笺藕殆佘莜苎菥墟漫脸艳哆脸 漓登米搛韭共枧鼐盗啾>噗案佘莜抓瘁渠疤琏慑咦级残装佘莜+棉尽佘莜蔽盾咦佘莜 疤琏奇殆冀噤级残+担纫蔽盾搐残抓佘莜墨琚 好同 爵噗+扶案佘莜祗纭虼绚遏恢婶蔼学毪跆罡涅肾抓螈韦シ痕 B 犏菱诀矮祗纭谖待遏闩垛奢德韭共抓佘莜虼绚泉嗜シ

## 4 莩楠

葚蔼 B 犏菱诀矮佘莜虼绚爵绑摅痢跆初徉弈剖肾碍备 遏多撇嶂笺抓佘莜虼绚泉嗜 蚵病蚍硬堙悛永单铼 安遏去共 米搛枧鼐盗啾;如娠癞峙奢卞 慈俊矮镰暇灯盾簇蛏捏螈抓阮 疋 蚵病立多只抓多瘴岳シ

## 顿摁染援

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