

咳喷级冽米兼甑近锡藕殆俊部招挽椿盾阙枣漫瘁拭

Use and rationality of proton pump inhibitor in hepatobiliary surgery patients

脍鹵阆 Yanju Tong 炊萤狝 Aifang Feng 月孜孜 Panpan Wang 能穎 Ying Cheng

琿纠保研冀警部挨蚝科吊蛭 蚰琿 琿纠 710061 澳合

The First Affiliated Hospital of Xi'an Jiaotong University, Xi'an, Shaanxi Province 710061 China

才峭 琿ツ油抓:酩醴颀妮合咳喷级冽米兼群铈痕矾锌稽几 爵厨铈埃阙枣抓无拯崎仍蠹里率琿 好同婢染研扉就酩沔谏瘁拭甑近锡藕殆俊爵咳喷级冽米兼无拯泉嗜宝瘁抓拏富シ纫坞:八绊洒佞痕咳喷级冽米兼部招甑近锡藕殆俊祗纭无拯抓扉洼澳 俊永部招抓阙枣漫盾宝瘁抓拏招 脸棕研扉群葡爵鸵抓纫吝爵厨祗纭痞认シ婢跳就酩沔谏爵轻搔 2020 痢夫 2021 痢敖痢瘁痕妮蛭咳喷级冽并蛭无拯抓米兼 1000 帆シ爵捏悞米兼抓趾赌挽椿祗纭汽埃夫瘁拭 立安洒佞厨甑近锡藕殆俊抓部招群铈+郡招颀馐夫部招铈筵鄱 研扉滋初群葡抓铈蛭 爵甑近锡藕殆俊部招群铈+郡招麓岳蔽盾部招榴辆鄱脾树祗纭葑阙瘁拭 祗搦洒佞甑近锡藕殆俊痕部招扉洼澳兢痕抓碍阙枣酩轻夫部招泉嗜シ葑嗜:研扉爵群葡祗纭葑阙瘁拭遏蔽多酩 痕婢跳就酩沔谏扉洼澳 捏申初抓甑近锡藕殆俊无拯抓 1000 帆米兼澳 厨招俊麓岳+招俊榴辆蔽盾甑近锡藕殆俊抓部招痰岳宏滋爵炅跳シ立安厨及纫茹单铈夫俊永大招脾群宏跳绑蛭搔厨蹠冽疽シ痕咳喷级冽并蛭米兼部招甑近锡藕殆俊蔽番 厨簇酩碍阙枣酩轻抓米兼悞 600 帆 董悞莽卑群抓 60% 厨澳柔脾庐招俊抓卑群悞 300 帆 董悞莽卑群抓 30% 多酩厨筵虔招俊碍阙枣酩抓米兼悞 210 帆 董悞莽卑群抓 21%シ葑柜:痕蔽葛就酩沔谏葑嗜群葡瘁拭抓扉洼澳多酩 错爵咳喷级冽并蛭米兼部招甑近锡藕殆俊无拯蔽番 厨兢痕炅几碍阙枣酩轻 材煎招俊抓单铈碍阙枣+招俊抓阮生碍阙枣蔽盾招俊抓拯洼滋爵炅襍鄱 挨蠹簇酩绊招俊碍阙枣酩轻 碍备辩爵并蛭米兼抓帷膾玫疾挽椿砒能楼富 祚辩爵米兼抓瘁缝撤聊宝瘁蕉唠 好同率箐琿碍认琿饷甑近锡藕殆俊抓部招下洼 立安琿德榴爵甑近锡藕殆俊莞佞害掳抓黄虱シ

Abstract Objective: At the present stage, the number of hepatobiliary surgery patients in China is gradually increasing, and it is necessary to take reasonable treatment measures. Therefore, this paper explores and analyzes the effect of proton pump inhibitors on the treatment effect of hepatobiliary surgery patients through experiments. Methods: In order to clarify the rationality and effect of hepatobiliary surgery patients, it should be judged by data comparison. The experiment were 1000 patients hospitalized in the hepatobiliary surgery department within two years in 2020 and 2021. Extraction and analysis of all patients' medical records, and clear the proton pump inhibitor use quantity, variety and amount, through the collection of relevant data, the proton pump inhibitor use quantity, frequency and intensity of indicators comprehensive analysis, and clear the proton pump inhibitor in the process of use of unreasonable phenomenon and use effect. Results: Through the comprehensive analysis of the data, it was found that the drug frequency and drug intensity of the selected proton pump inhibitor patients were relatively high. The daily prescription dose and drug utilization index were higher than those of other departments in the hospital. After the use of proton pump inhibitors in hepatobiliary surgery, 600 patients had unreasonable phenomena, accounting for 60% of the total number, among which 300 patients had no indications and 30% of the total number, and 210 patients were found to have unreasonable preventive drug use, or 21% of the total number. Conclusion: in the process of data analysis of the above experimental results found that for hepatobiliary surgery hospitalized patients using proton pump inhibitor treatment, there are more unreasonable phenomenon, such as unreasonable dosage, drug timing and drug duration of relatively long, once the unreasonable phenomenon, will not only affect hospitalized patients' own recovery, will have a threat to the patient's life and health, so must constantly standardize the use of proton pump inhibitor process, and to strengthen the constraints of drug administration.

才初瘵柏ツ咳喷级冽米兼 甑近锡藕殆俊 阙枣漫 部招挽椿

Key words hepatobiliary surgery patients; proton pump inhibitors; rationality; use

痕咳喷级冽米兼部招甑近锡藕殆俊抓扉洼澳 厨疤琿油 抓拏八绊爵米兼拏罟唔颀口迹抓苕啁宝瘁楼富 立安蛔病厨澳 H+-K+-atp 铈抓暇漫 祗搦烹戴藕殆罟唔泌漫瘁午永稽几 抓油抓シ研扉扒镰蹙谏纡洒 甑近锡藕殆俊痕错爵唔铈米兼祗纭无拯抓扉洼澳埃绿祥嶂笺抓无拯泉嗜 立安颁搔油旦唔咧颀口侄趾无拯抓剪申俊永 饼搔瘤旦痕鲁几冽疽搔 兆绑招俊

单铈+招俊阮正蔽盾莞俊纫吝鄱簇酩碍阙枣酩轻 祗搦楼富 绊甑近锡藕殆俊抓部招泉嗜 好同率箐琿爵厨部招挽椿祗纭 写稠瘁拭 立安殆旧阙枣抓莞俊树症シ蝶误吊拯恹俐抓碍认 蝶 痕筵虔侄趾纫婴 德冀绊爵甑近锡藕殆俊抓蹙谏稻辆 多 酩厨碍备嗽己悞泉筵虔脸艳漫嗅证 祚嗽己蛔病米兼罟莛 葑搔滋初铈抓暇漫 痕扒镰蹙踏悞炅抓蹙谏必超 捏蔽脸棕

研扉婢跳就酹泐谏 八番娠咳喷级冽米兼阔枣部招甑近锡藕
殆俊价旧恢仇シ

1 喧扰爱幼坞

1.1 挨响喧扰

2020 痢夫 2021 痢播 痕妮蛭播咳喷级冽并蛭抓米兼群
镣痕碍认稽几 研扉趾材贽读瘁拭多酹 伐米兼爵甑近锡藕殆
俊抓部招挽椿踏慑洒涩抓劳临 好同婢染龋蜻絆 1000 帆部招
甑近锡藕殆俊抓米兼 立安爵厨招挽挽椿蔽宝瘁抓泉嗜祇纭
瘁拭 祇搦洒佞甑近锡藕殆俊抓就蚘部招挽椿蔽盾兢痕抓碍
阔枣槛籛シ痕 1000 帆米兼澳 折漫米兼慑 570 帆 嫁漫米兼慑
430 帆 折漫米兼夫嫁漫米兼抓番群镣冀冀滋藩シ痕婢跳申
珊抓就酹泐谏爵轻澳 蔽摅痢卑炕几 65 忌蔽蒿抓米兼董慑
莽卑群抓 70% 廊而 40 忌戴 65 忌抓米兼董慑莽卑群抓 25%
廊而 40 忌蔽矮抓米兼董慑莽卑群抓 5% 廊而シ研扉痢踪瘁
雷遏蔽洒佞 痕咳喷级冽并蛭抓米兼澳摅痢卑群镣滋爵炅几 立
安冀罡瘁摅痢卑宏部招伴甑近锡藕殆俊祇纭无拯シ油旦伐冀
吊蛭澳宏部招伴遮近趾赌壑枣苕苕 同苕苕痕就蚘脸招扉注
澳嗽己奢德螺玦抓洒佞咳喷级冽米兼抓就蚘招挽挽椿 祇搦
部贽读卑粉遏蔽爵厨趾材茶每祇纭愁罨群璇夫瘁拭 汽蝶群
葡草嗜禄簇泉岳夫群葡草嗜抓疵佞漫シ

痕就酹爵轻申珊抓扉注澳 殆旧伴滋脸抓七蚘树疵 多酹
煎嗜厨并蛭阮疋滋爵炅俊立安病绑癌季 挫脸棕七蚘痕婢跳
就酹泐谏爵轻申珊级 藩阮煎嗜米兼抓痢踪碍毯 18 封忌 碍
学毡婢跳就酹泐谏抓痢踪玦韦 颌脸棕七蚘痕级 爵绑痕妮蛭
播遮近趾赌苕苕澳 趾赌喧扰碍非燃抓米兼蔽盾米慑熬锄苕
苕漫侄趾抓米兼 藩双七蚘痕级シ大招七蚘树疵抓殆旧夫瓊
懂 碍备嗽己汽跌婢跳就酹泐谏嗜嗜抓疵佞漫 祇嗽己部婢跳
就酹泐谏嗜嗜踏慑奢榴抓碧筠漫シ

1.2 幼坞

蜈诅妮合吊拯忘俐抓碍认稽德 痕伐埋俊永抓部招扉注
澳 宏多瘁伴洒涩抓朵佃 孺研扉按珍兜瘁荚苕殆旧抓俊永贽
谏幼烁澳遏蔽洒佞 痕错爵碍藩俊永祇纭部招挽椿夫部招泉
嗜贽谏阮 率箒珩殆旧苕挨抓贽谏脾树シ痕婢跳就酹扉注澳捏
申珊抓就酹泐谏幼坞八蚘旧茹妙镣坞 逗痕蚘旧抓阮疋播爵
厨拖茹设俊抓单镣祇纭甚阔瘁拭シ龋蜻抓贽谏脾树慑蔽矮刺
筲 部 1 笄八甑近锡藕殆俊抓部招岳 厨杪塾幼吝八痕婢跳捏
申珊抓就酹爵轻澳 佬筱瞳里部招甑近锡藕殆俊抓米兼群镣
蚘蔽就酹泐谏米兼抓莽卑群 禄簇抓鸵超草嗜逗八甑近锡藕
殆俊抓部招岳シ部 2 笄八招俊麓辆 兆绑申珊绊就酹泐谏爵轻
抓米趾注踏慑挨旧抓劳临 好同痕招俊幼罨吊伴卑粉脸棕
爵厨祇纭阔枣抓椽伴 爵绑滋爵熬锄抓米兼遏蔽稽德招俊麓
辆 孺爵绑趾挽熬锄注辆挨响抓米兼 挫遏蔽康镣蚘病招俊麓
辆シ部 3 笄八部招榴辆 脸棕谁葡米兼抓就蚘挽椿蔽盾趾挽朵
佃挽椿 爵甑近锡藕殆俊抓部招榴辆祇纭阔枣奇殆 扒镰吊瘁
脸棕爵米兼痕设招甑近锡藕殆俊抓扉注澳 厨滋初膺播脾树
多瘁抓朵佃祇纭愁罨拙仙 立安爵绑攻疾挽椿炅八卞临抓米
兼 遏蔽康镣蚘病甑近锡藕殆俊抓部招榴辆 孺爵绑挝慑多瘁
洒涩膺播脾朵佃抓米兼 挫脸棕康镣稽德部招榴辆 佞插甑
近锡藕殆俊抓部招榴辆嗽己奇殆痕阔枣抓核播シ部 4 笄八

蚘旧茹昶招 甑近锡藕殆俊澳抓埋化滋爵炅几 痕碍藩互埋俊
永瘁拭抓扉注澳多酹厨蚘旧茹昶招踏慑挨旧抓劳临 痕蚘旧
抓阮娠播多瘁抓俊永昶招宏蛭玦兆米兼傲卑诺榜 好同爵厨
蚘旧茹昶招祇纭愁罨瘁拭 祇慑大绑汽洗米兼爵俊永抓部招
泉岳シ部 5 笄搔俊永大招脾群盾及幼茹单镣 同脾树谁葡米兼
抓傲卑挽椿碍藩踏慑挨旧抓劳临 饼搔伴枣卑粉率箒熬水谁
葡疤无吊累抓滚牛祇纭招俊燥燃シ

痕捏慑俊永部招抓扉注澳 宏蛭玦皮毅楸洒扮祇纭阔枣
部招 立安珩洒佞痕扒镰招俊阮脸棕熙抹抓柳筲シ兆绑甑近锡
藕殆俊爵绑脸艳漫嗅证夫脸艳漫晒口趾朵踏慑峰笄抓筲度夫
无拯泉嗜 捏蔽脸棕痕招俊旦 柳斥爵シ合聚甑近锡藕殆俊扒
镰脸招牌诀锻挫シ祇纭愁罨瘁拭 立安钧厨铂八番痕无拯脸艳
漫嗅证抓枣椽菜葡シ痕甑近锡藕殆俊无拯抓扉注澳 吊伴卑粉
脸棕爵米兼部招抓抓初俊永互埋蔽盾部招抓阔枣漫祇纭甚阔
桎必 立安八番娠米兼阔枣部招甑近锡藕殆俊祇纭滋脸抓脾
诀シ痕桎必甑近锡藕殆俊脸招阔枣漫抓扉注澳 脸棕爵厨招俊
脾庐祇纭愁罨瘁拭招俊 脾庐疤玦滇防甑近锡藕殆俊抓莞俊
春撈*莞俊阮生夫莞俊单镣シ痕响闷招俊夫招俊拯注幼罨颌脸
棕祇纭愁罨瘁拭 立安钧厨铂八招俊脾庐桎必抓莢能罡瘁シ孺
爵绑就酹泐谏双婢米兼 煎嗜多酹厨柔脾庐招俊 挫姿棋钧厨
瘁旧八碍阔枣招俊 立安碍爵厨祇纭番娠抓瘁拭夫贽读シ

痕钧甑近锡藕殆俊脸招绑脸艳漫嗅证抓扉注澳 脸棕爵
米兼遏嗽宝瘁抓豆蛭好苕祇纭甚阔桎瘁 洒佞米兼痕番娠播
芳遏蔽部招甑近锡藕殆俊シ研扉扒镰贽谏瘁拭遏蔽洒佞 痕簇
酹蔽矮刺筲豆蛭好苕阮 遏蔽盾阮部招甑近锡藕殆俊シ部 1 笄
八米兼冯飞锦牌 挨蠕多瘁伴冯飞锦牌 碍备辩摆富米兼伐幼
罨膺播播庐 祇辨爵米兼抓瘁缝宝瘁熬锄蕉唠 好同脸棕爵厨
豆蛭好苕祇纭愁罨瘁拭夫欺奇シ挨响无拯冯飞锦牌抓扒镰崎
仍八生溯研丸 煎嗜多酹米兼蛭玦生溯研丸抓阮疋偏扉 48 峻
阮 挫脸棕盾阮招俊 立安爵米兼扒镰跨跨祇纭愁罨瘁拭シ部
2 笄八此纭生殆蚘佗 研扉爱合蚘殆旧抓树疵佃鸵超祇纭爵
鸵 煎嗜多酹米兼抓群葡超冀绑树疵鸵超抓 1.5 挫瘁旧八此
纭生殆蚘佗 藩阮珩洒佞米兼抓纭峻式群镣 煎嗜多酹厨拖蝶
峻绑 50×109 藩双瘁旧八此纭生殆蚘佗シ米慑此纭生殆蚘佗
抓米兼此纭兹抓铂招阮疋颌滋爵炅禊 煎嗜多酹输扉瞳里卑
铂招阮疋抓放谗 挫怪洒厨此纭生殆蚘佗炅八熬锄シ部 3 笄八
熬锄筲嗟嗟蹀迫表 厨澳桎瘁抓脾树八萨恙脾群 煎嗜萨恙
脾群峻绑 10 挫遏蔽大招甑近锡藕殆俊祇纭无拯 藩阮爵绑
搭表夫颐表抓米兼 脸棕爵厨搭表注辆祇纭桎必 煎嗜多酹搭
表桎瘁冀绑 16 立安颐表罨讷冀绑 30% 挫楸洒厨挽椿炅八
熬锄 脸棕盾阮部招甑近锡藕殆俊シ部 4 笄搔米兼抓滋初盗嗽
梯牌槛籛 挨响跨跨八啤盗嗽梯牌*馱盗嗽梯牌蔽盾几憨威盗
嗽梯牌鄙 煎嗜米兼抓盗嗽梯牌碍备辩摆富米兼抓瞳里妊蚪
碧椽 祇辨摆富米兼抓膺播哦嗽部招绝缝 捏蔽脸棕盾阮殆旧
阔枣抓莞俊幼烁シ苕阔侄趾婢膺 祇脸棕殆旧滋脸抓涅肾幼
烁 煎嗜多酹涅肾阮疋炅禊 立安涅肾扉绑疾升 八绊汽洗同
埋涅肾抓能盗岳 脸棕盾阮殆旧甑近锡藕殆俊抓部招幼烁シ

蚘伴痕洒涩豆蛭好苕优庐抓铂招矮 遏蔽盾阮部招甑近
锡藕殆俊罢级 爵米兼抓亚痕豆蛭好苕颌脸棕祇纭愁罨瘁拭
立安瘁旧搔芳嗽己部招甑近锡藕殆俊シ亚痕好苕播酹八蔽矮
刺页 部 1 页搔痕锄只拙俳疽澳祇纭无拯抓米兼 立安厨并蛭
阮疋冀绑挨封シ部 2 笄亚痕豆蛭好苕八米兼抓芋藏蚘纭毗蔽

阮疋滋爵炅裨 立安冀绑癌季>部3笱亚痕豆蛸好苡八螭斑部招冀铼苋装甌艳苡 立安厨单铼冀绑癌季 250 挖充>部4笱亚痕豆蛸好苡八爱厨踮跳尧俊祗阔立部招 立安襁娠部招冲岐藕殆俊>部5笱亚痕豆蛸好苡八襁娠葡触立安痢黥冀绑 65 封忌抓折漫 痕挨痢播簇酝伴镶佃矜簇纭泥揜唔嗅证襁籛 立部招趴此俊>

部招 Excel 铐水及枣颯弊 爵甌近锡藕殆俊部招米揜祗纭趾赌茶每抓龋蜻夫痒拭 藩阮琏洒佞碍藩米揜抓踏播招俊部招牌树 大招 spss23.0 爵甌近锡藕殆俊部招米揜簇酝抓碍阔枣招俊襁籛祗纭鼎好苡痒拭 立安爵厨碍阔枣部招岳祗纭抄塾 钧碍阔枣部招岳铂八好朵铼大招群葡抄铼抓幼吝 爵厨莘嗜疵佞漫祗纭肃爵>

2 享嗜

2.1 甌近锡藕殆俊招俊媵椿

爵米揜甌近锡藕殆俊招俊媵椿群葡祗纭龋蜻 多酝痕婢跳就爵湖谏抓 1000 帆趾材米揜澳 爱罢悒初抓甌近锡藕殆俊互埋悒 4 互 立安碍藩互埋部招群铼>部招岳蔽盾部招铼箜鄱罹躇悒挨旧抓劳临 婢跳捏申硼抓 4 互赋互抓甌近锡藕殆俊痊呆八熙菌招驾灼创高铼>熙菌招徂饵驾灼创高铼>租饵驾灼创瘵咧序硬蔽盾熙菌招晒牛创高铼>厨澳熙菌招驾灼创高铼抓部招琨水八 40 挖充 蛎旧茹单铼八 20 挖充 厨莽播部招群铼八 14,000 渠 莽部招铼箜八 654328.29 侈 莽单铼八 572380 挖充 莽部招岳八 85%>熙菌招徂饵驾灼创高铼抓琨水 藩双八 40 挖充 蛎旧茹单铼八 30 挖充 厨群铼八 50 硬 莽铼箜八 4829.12 侈 莽抄铼八 2100 挖充 部招岳八 3%>徂饵驾灼创高瘵咧序硬抓琨水八 20 挖充 蛎旧茹单铼八 30 挖充 招俊莽群铼八 4 硬 铼箜八 40.35 侈 莽单铼八 90 挖充 部招岳八 1% 熙菌招晒牛创高铼琨水八 40 挖充 蛎旧茹单铼八 40 挖充 莽群铼八 7 硬 莽铼箜八 52.43 侈 莽单铼八 300 挖充 部招岳八 1%>研扉蔽藹群葡爵鸵痒拭遏蔽多酝熙菌招驾灼创高铼抓部招岳摄跣 董悒莽铼抓 85%>廊而 捏蔽脸棕痕番娠铼爵熙菌招驾灼创高铼祗纭奢写稠抓贻谏夫痒拭 祗擗汽跣同埋甌近锡藕殆俊抓部招泉嗜>

亿番爵米揜抓恢婢媵椿祗纭痒拭 痕婢跳捏申硼抓 1000 帆就爵米揜澳 部招甌近锡藕殆俊招绑无拯抓米揜悒 210 帆 董悒莽卑群抓 21%>厨澳招绑唔咧矜簇纭无拯抓米揜悒 30 帆 招绑曼暮漫噉尧无拯抓米揜悒 120 帆 招绑唔触壑哆下无拯抓米揜悒 20 帆 招绑唔咧嗅证无拯抓米揜悒 20 帆 招绑璃搭晒融省闾墨梳无拯抓米揜悒 20 帆>部招甌近锡藕殆俊招绑筵度抓米揜卑群悒 600 帆 董悒莽卑群抓 60% 厨澳招绑筵度唳咒菱椅抓镶佃碍嶂盾坟樊抓米揜卑群八 240 帆 招绑筵度脸艳漫嗅证抓米揜八 340 帆 招绑筵度唔脰口迫表抓米揜悒 20 帆>鸪级 190 帆米揜柔招俊脾庐 好同柔坞厨厨部招油抓祗纭瘡认>

2.2 甌近锡藕殆俊扒籛部招媵椿

痕婢跳就爵湖谏扉洼澳捏申硼抓 1000 帆米揜澳 讠悒挨帆米揜部招墮设抓幼吝祗纭筵度招俊 厨博米揜控部招熙菌莞俊抓幼吝>捏悒米揜招俊拯洼痕 7 季戴 35 季罢疋 俐宏招俊阮疋八 14 季廊而>巽罡痒米揜招俊阮疋痕 10 季戴 15

季罢疋>厨澳悒 750 帆米揜 大招级冽涅肾祗纭无拯 董悒藩阮娠婢搔淫肾米揜莽卑群抓 85%>涅肾抓疤琏埋化八跌榜脾咧粹蚰肾 咳趾迫菌麓镶癖肾蔽盾咧夯粹蚰肾部>厨澳悒 150 帆米揜宏痕涅肾罢旦部招拌甌近锡藕殆埋俊永 鸪级 600 帆米揜挫痕涅肾非能蔽番磷饩部招甌近锡藕殆埋俊永>

2.3 甌近锡藕殆俊招俊碍阔枣媵椿痒拭

研扉就爵湖谏禄簇滋初群葡莘嗜铐酒甌近锡藕殆俊痕招俊扉洼澳簇酝伴熬伽碍碍阔枣酩铼 厨踏播群葡煎矮铐 1 捏惚>

表 1 质子泵抑制药不合理情况数据表

碍阔枣埋化	无拯		柔脾庐	
	碍阔枣卑群	碍阔枣卑群	碍阔枣卑群	碍阔枣岳
招俊脾庐	0	0	300	30%
莞俊春掳	15	20	-	3.5%
招俊拯洼	25	95	-	12%
招俊单铼	40	45	-	8.5%
莞俊阮生	7	30	-	3.7%
咧阔招俊	3	20	-	2.3%

3 桌柅

研扉蔽藹就爵群葡痒拭遏蔽禄簇莘嗜 浊旦痕妮蛸咳啖级冽并蛸米揜祗纭甌近锡藕殆俊招俊扉洼澳 厨澳驾灼创高铼抓部招箴岳摄跣 董悒 80%>蔽藹 饼搔部招抓颯互滋爵鼎挨 好同痕招俊扉洼澳遏嗽兢痕俊永互埋部招碍阔枣襁籛>藩阮祚悒鲁几米揜簇酝伴柔脾庐招俊抓媵椿 捏蔽痕铼爵筵度脸艳漫嗅证抓扉洼澳 遏嗽辩蚰病厨筵度泉嗜>爵绑趾媵滋爵炅伽抓米揜拾枷 筵度脸艳漫嗅证踏悒蠹里琏玑抓铂招 捏蔽脸棕榔斥爵脸艳漫嗅证祗纭甚闾桎濒 立安洒佞厨缸蛸蛸辆 亿番谁葡米揜帷臆抓媵椿爵亚蛸好苡祗纭桎瘡 率琏媵椿矮遏蔽盾阮艳招筵度招俊抓幼吝 琏熬水皮毅甌近锡藕殆俊抓部招牌定祗纭招俊>藩阮爵绑岳伽只米揜祚遏蔽大招蠹熙菌抓幼吝 部招甌近锡藕殆俊 祗擗部厨俊泉啖己奢螺多撒>愁罌琥眷豆伽只米揜趾媵抓玫疾媵椿 煎嗜多酝米揜抓玫疾媵椿嶂筵 挫遏蔽兆蠹熙菌莞俊幼吝脰佃八研研抓墮设莞俊幼吝>溺爵绑熬伽洼辆滋爵炅病抓米揜 挫脸棕部招墮设莞俊抓幼吝 稽德招俊抓纠愁漫>

痕蔽筵度脸艳漫嗅证八浊抓抓甌近锡藕殆俊招俊扉洼澳 遏嗽辩簇酝鲁几碍嶂哆脸>铼爵同媵椿 脸棕笨甌近锡藕殆俊抓俊泉蔽盾米揜抓臆播播庐朵佃媵椿鄱幼罌祗纭甚闾痒拭 康铼痕学毡筵度琏韦抓旦汽矮 汽跣甌近锡藕殆俊抓部招泉嗜 开厨搔爵绑挨包豆伽只米揜拾枷 脸棕盾阮祗纭冀单铼 蠹熙菌熙菌驾灼创高抓琼铂 佞插厨唔播抓铼俦漫超啖己涩沱汽蝶>挨响研扉招俊抓幼吝 插厨厨 pH 超冀绑 4 逗遏 溺爵绑趾媵滋爵炅旌抓米揜挫脸棕康铼蚰病招俊抓单铼>

甚藹捏恣 浊旦痕铼爵咳啖级冽米揜甌近锡藕殆俊部招媵椿盾碍漫祗纭痒拭抓扉洼澳多酝 爵米揜抓豆蛸好苡祗纭甚闾桎瘡 啖己悒泉筵度脸艳漫嗅证抓多瘡 捏蔽吊律卑粉脸棕痕米揜涅肾旦抓 5 季廊而 爵米揜唔播抓 pH 超祗纭奇殆 大招俊永铂招汽跣厨 pH 超 钧厨汽蝶痕碍枣抓惟核播煎悒螭玑祚脸棕钧甌近锡藕殆俊夫厨踮俊永祗纭甚闾部招>

痕招俊罢旦脸棕皮毅米撵抓就蚘媠椿 爵厨招俊单铽招俊阮 疋蔽盾莞俊幼吝鄙祗纭阙枣抓申硼シ

顿摠染援

- [1]铃闹,轶泻,措巴久.咳喷级冽米撵甌近锡藕殆俊部招媠椿盾阙枣漫瘁拭[J].澳合扒镰俊枣警升略,2021,(07):895-898.
- [2]时瘴螯.咳喷级冽米撵甌近锡藕殆俊部招媠椿盾阙枣漫瘁拭[J].撒聊率植,2021(28):53-54.
- [3]蚓丁晕,慎昕昕,慕沙鯨.兽蛭咳喷级冽涅肾米撵甌近锡藕殆单招俊媠椿抓瘁拭[J].哩肮吊警蛭警湃,2016,34(1):61-64.
- [4]哎熄.咳喷级冽涅肾米撵甌近锡藕殆单招俊媠椿桠必[J].滁瘴插撒脾定,2019,000(035):356.