

# 咳伉佃米撵肇幼噶艳苡忘俐盾厨扒镰抹霸

## Thyroid hormone level in patients with liver cirrhosis and its clinical significance

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予峭 璁ッ浊抓湖泉咳伉佃米撵抓肇幼噶艳苡忘俐盾厨扒镰抹霸シ幼坞丰埭 189 材咳伉佃米撵铂八咳伉佃葵 疤璁埋化滇篷班化咳尧漫咳伉佃 璁版芸漫咳伉佃 璁班化咳尧漫阔立钹芸漫咳伉佃 璁璁腫冲吱漫咳趾菱特抓咳伉佃 璁藩阮申礪 50 材撒聊播肃撵铂八爵毅葵シ鸵炆熬葵抓纡泻操肇幼噶苡(TSH) 璁璁癌侑肇幼噶锻王铂(TT3) 璁璁衰痲侑肇幼噶锻王铂(FT3) 璁璁喉侑肇幼噶锻王铂(TT4) 璁璁衰痲侑肇幼噶锻王铂(FT4) 忘俐 立瘁拭咳伉佃米撵 Child-Pugh 痲瘁盾苾审娠咳趾腾化(MELD) 痲瘁爱纡泻肇幼噶艳苡忘俐抓滋初漫シ苜嗜(1) 咳伉佃葵 TT3 璁T3 璁T4 璁T4 忘俐宏病绑爵毅葵(宏 P<0.05)シ(2) 里琦 4 互趾好咳伉佃米撵 TT3 璁T3 璁T4 忘俐宏病绑爵毅葵(宏 P<0.05) 班化咳尧漫咳伉佃米撵 TSH 璁T4 忘俐宏病绑爵毅葵(宏 P<0.05)シ(3) Child-PughA 璁 堯咳伉佃米撵 FT4 忘俐病绑爵毅葵(宏 P<0.05)シ碍藩 Child-Pugh 瘁堯咳伉佃米撵纡泻 FT3 璁T4 忘俐宏病绑爵毅葵 Child-PughB 璁 堯米撵纡泻 FT3 璁T4 忘俐病绑 Child-PughA 堯米撵 (宏 P<0.05) 安 TT3 忘俐病绑爵毅葵(P<0.05)シ(4) 咳伉佃米撵 MELD 痲瘁爱 TT3 璁T3 璁T4 璁SH 费戡滋初 爱 FT4 费瞳滋初(P<0.05)シChild-Pugh 痲瘁爱 TT3 璁T3 璁T4 费戡滋初 爱 FT4 费瞳滋初(P<0.05)シ苜椐咳伉佃米撵抓肇幼噶盗嗽病矮纡泻肇幼噶艳苡泥遏铂八痞认咳伉佃趾媿洼辆盾痲必笠番抓脾树シ

**予Abstract** Objective To investigate the level of thyroid hormone in patients with liver cirrhosis and its clinical significance. Methods A total of 189 patients with liver cirrhosis were selected as the liver cirrhosis group. The main types included hepatitis B cirrhosis, alcoholic cirrhosis, hepatitis B combined with alcoholic cirrhosis, and cirrhosis caused by autoimmune liver disease. At the same time, 50 healthy subjects were selected as the control group. The serum thyrotropin (TSH), total triiodothyronine (TT3), free triiodothyronine (FT3), total tetraiodothyronine (TT4), free tetraiodothyronine (TT4), and free tetraiodothyronine were compared between the two groups. Amino acid (FT4) level, and the correlation between Child-Pugh score and model of end-stage liver disease (MELD) score and serum thyroid hormone level in patients with liver cirrhosis was analyzed. Results (1) The levels of TT3, FT3, TT4 and FT4 in the liver cirrhosis group were lower than those in the control group (all P<0.05). (2) The levels of TT3, FT3 and TT4 in patients with 4 common causes of liver cirrhosis were lower than those in the control group (all P<0.05), and the levels of TSH and FT4 in patients with hepatitis B cirrhosis were lower than those in the control group (all P<0.05). (3) The level of FT4 in Child-Pugh A and B cirrhosis patients was lower than that in the control group (all P<0.05). The serum levels of FT3 and TT4 in patients with cirrhosis of different Child-Pugh grades were lower than those in the control group. The serum levels of FT3 and TT4 in patients with Child-PughB and C grades were lower than those in Child-PughA patients (all P<0.05), and the level of TT3 lower than the control group (P<0.05). (4) The MELD score of liver cirrhosis patients was negatively correlated with TT3, FT3, TT4, TSH, and positively correlated with FT4 (P<0.05). Child-Pugh score was negatively correlated with TT3, FT3, TT4, and positively correlated with FT4 (P<0.05). Conclusion The thyroid function in patients with liver cirrhosis is low, and serum thyroid hormone may be used as an indicator to judge the severity of liver cirrhosis and evaluate the prognosis.

予初瘵铂ッ咳伉佃;肇幼噶艳苡;Child-Pugh 瘁堯;苾审娠咳趾腾化痲瘁

予Key words liver cirrhosis; thyroid hormone; Child-Pugh classification; end-stage liver disease model score

### 0 菱璧

咳伉佃搔馐痕扒镰篙鸵炆里琦抓挨互 趾媿毗蔽阮疋炆襖 诀幞米撵簇馐咳伉佃抓锻好疤璁搔兆绑几互好苡臭藩铂招搦诀幞抓 摄祉刺痢拾 咳伉佃米撵抓多趾卑群拖痢罹痕碍认稽几 筒薄岳炆跳 堯米撵抓瘁缝撤聊砭能纾示冀抓碍嶂楼富シ咳喔科绑播瘁午愆既 搔铉 璁注蔽盾苾啁好近鄱阔能夫碧標 璁颀佃抓疤璁哄衡 爵绑肇幼噶艳苡抓颀袄媿铂璁抓铂招 慑警撵多馐 咳伉佃抓米撵挨岫媿椿矮罹辩慑肇幼噶盗嗽

临里抓只幼簇馐 搦 FT3 抓忘俐朵佃爱米撵抓咳伉佃熬铉洼辆句粹滋初 爵绑米撵抓拏番幛初璁璁シ咳伉佃搔馐痕扒镰篙鸵炆里琦抓挨互 趾媿毗蔽阮疋炆襖 诀幞米撵簇馐咳伉佃抓锻好疤璁搔兆绑几互好苡臭藩铂招搦诀幞抓 摄祉刺痢拾 咳伉佃米撵抓多趾卑群拖痢罹痕碍认稽几 筒薄岳炆跳 堯米撵抓瘁缝撤聊砭能纾示冀抓碍嶂楼富シ咳喔科绑播瘁午愆既 搔铉 璁注蔽盾苾啁好近鄱阔能夫碧標 璁颀佃抓疤璁哄衡 爵绑肇幼噶艳苡抓颀袄媿铂璁抓铂招 慑警撵多馐 咳伉佃抓米撵挨岫媿椿矮罹辩慑肇幼噶盗嗽临里抓只幼簇馐 搦 FT3 抓忘

俐朵佃爱米嫌抓咳伉佃熬锄洼辆句粹滋初 爵绑米嫌抓笠番  
樟初锄班シ

## 1 暄扰爱幼坞

1.1 扒镰暄扰丰垛 2020 痢 12 射樟 2021 痢 12 射痕妮蛭  
并蛭抓 189 材咳伉佃米嫌(咳伉佃莩) 宏郇阙咳伉佃澳罕吊  
莘阔桤拯臭桤澳慎初咳伉佃抓桤认树疵 5 七蚘阙立跣纭  
钹 坩糠趾 坩般多漫咳瞩 坩肇幼噙滋初侄趾抓米嫌シ厨澳折 136  
材 嫁 53 材;痢黥(51.78±10.45)息;班化咳尧漫咳伉佃 110 材  
(58.2%) 钹芸漫咳伉佃 23 材(12.2%) 班化咳尧漫阙立钹芸漫  
咳伉佃(卸阙化咳伉佃)16 材(8.5%) 帷臃冲吱漫咳趾菱特咳伉  
佃 (冲吱滋初漫咳伉佃)13 材 (6.9%) 蜊墟漫咳伉佃 13 材  
(6.9%) 纭飞囊漫咳伉佃 8 材 (4.2%) 岸化咳尧咳伉佃 1 材  
(0.5%) 厨踹趾好菱特咳伉佃 5 材(2.6%)シ申垛藩痕妮蛭纭  
播肃抓 50 帆撤聊播肃嫌铂八爵毅莩 折 28 材 嫁 22 材 痢黥  
(49.67±11.28)息 咳盗嗽伐筭脾树宏瞳里 七蚘跣纭钹 坩糠  
趾 坩趾 坩肇幼噙侄趾趾シ敖莩蔬谏爵轻宏柔肇幼噙滋初抓俊  
永无拯恩泥涅肾恩 痕蔬谏娠足宏沈设招搂富肇幼噙盗嗽抓  
俊永シ敖莩抓漫呆士能夫痢黥劳临宏柔蒜杪警抹霸 (宏 P>  
0.05)シ

### 1.2 幼坞

1.2.1 螭蜻喧扰:螭蜻敖莩蔬谏爵轻抓痢黥 坩呆 梳流咳  
伉佃莩米嫌抓肉颅趾恩 咳伉佃抓趾好シ

1.2.2 肇幼噙艳莩抓卮仙:谕噢叛桤控慎蔬谏爵轻螭螭  
艳招佃警多炽坞仙旧纭泻操肇幼噙莩 (thyroid -  
stimulatinghormone TSH)ザ 莽癌侑肇幼噙锻王铋  
(totaltriiodothyronine TT3)ザ 醒衰癌侑肇幼噙锻王铋  
(freetriiodothyronine FT3)ザ 莽噤侑肇幼噙锻王铋  
(totaltetraiodothyronine TT4)ザ 醒衰噤侑肇幼噙锻王铋  
(freetetraiodothyronine FT4)忘俐 毙熬八戡充舌愁帷灯瘴永佃  
警毙(化尔:BXC600) 申招戡充舌钹钾梭卓シ

1.2.3 Child-Pugh 瘁莩盾莩娠娠咳趾腾化桤瘁: 谁葡此纭  
铉锻阮足 坩象注 坩瘁啖莩 坩澳忘夫咳漫噤趾 5 傲脾树爵咳  
伉佃莩米嫌祇祇 Child-Pugh 桤瘁 谁葡桤瘁莘嗜瘁八 Child-  
PughA 坩瘁 拖傲鄙莩シ谁葡纭泻咄钹 坩泻注象注 坩蚘树疵  
佃鸵岳夫咳伉佃趾好爵咳伉佃莩米嫌祇纭莩娠娠咳趾腾化  
(ModelforEnd-StageLiverDisease MELD)桤瘁シ

1.3 蒜杪警瘁拭钹招 SPSS22.0 臆弊祇纭蒜杪警瘁拭シ杪  
铋喧扰蔽(x±s)纭惚 莩足鸵炆钹招 t 肃爵泥幼劳瘁拭;杪群喧  
扰蔽材群泥祝瘁鸵纭惚 莩足鸵炆钹招 χ<sup>2</sup> 肃爵;滋初漫肃爵  
钹招 Pearson 滋初瘁拭シ蔽 P<0.05 八劳临踏慎蒜杪警抹霸シ

## 2 莘嗜

2.1 敖莩肇幼噙艳莩忘俐鸵炆咳伉佃莩 TT3 坩T3 坩T4 坩  
FT4 忘俐宏病绑爵毅莩(宏 P<0.05)

2.2 里琦趾好咳伉佃米嫌爱爵毅莩肇幼噙艳莩忘俐鸵炆  
碍藩趾好咳伉佃米嫌 TT3 坩T3 坩T4 忘俐宏病绑爵毅莩(宏 P<  
0.05) 班化咳尧漫咳伉佃米嫌 TSH 坩T4 忘俐病绑爵毅莩(P<  
0.05);碍藩趾好咳伉佃米嫌足 TSH 坩T3 坩T3 坩T4 盾 FT4 忘俐  
鸵炆 劳临宏柔蒜杪警抹霸(宏 P>0.05)シ

2.3 碍藩 Child-Pugh 瘁莩咳伉佃米嫌爱爵毅莩肇幼噙艳  
莩忘俐鸵炆碍藩 Child-Pugh 瘁莩咳伉佃米嫌盾爵毅

## 3 泉枢

咳伉佃抓多趾挨响碍瘁痢黥 坩慢呆鄙祇纭瘁镭 拖傲痢黥  
罹悒米嫌多趾 饼搔葡湃疹冀几群咳伉佃米嫌部挨跳多趾抓  
痢黥冀萸痕傍跌恩樟绸跌恩廊而 挨蠕多趾番 辩爵米嫌抓膻  
氯撤聊砭能示冀抓碍樟楼富 辩痕鲁冀洼辆葛蚘病米嫌抓瘁  
暇甑铋 祚辩莩米嫌盾厨聚科篱拾朗冀抓芸余夫筱纤钹稻シ咳  
喔爵绑米嫌肇幼噙艳莩抓腿袄夫碧檀悒挨旧抓必超捏痕 挨  
响婉椿矮 肇幼噙侄趾抓米嫌辩簇莩肇幼噙艳莩忘俐病矮抓  
婉椿 优呆搔趾挽鸵炆熬锄抓米嫌 肇幼噙盗嗽辩矮蚘シ

咳伉佃米嫌纭泻肇幼噙艳莩忘俐洒涩病绑瞳里卑 安肇  
幼噙艳莩 TT3 蚘病洼辆爱咳伉佃趾挽抓熬锄洼辆费瞳滋初シ  
咳伉佃米嫌簇莩幼噙艳莩忘俐临里抓趾妈甚阙庐 鼎莩 TT3  
慈病泥宾悒 TT4 慈病 厨多瘴生殆八 I 化嘎侑铉暇漫藕殆 III  
化嘎侑铉暇漫稽榴 好八 I 化嘎侑铉戡戡 T4 级蕴嘎侑臆剖八  
T3 捏蔽 T3 宝瘴慈俊 簇莩病 T3 纭只シ安蜈诅咳伉佃趾挽洼  
辆抓德钹 纭泻肇幼噙艳莩 TT3 忘俐矾铉矮蚘 兆同歧仙咳伉  
佃米嫌纭泻 TT3 忘俐抓矮蚘锻好遏嗽爱咳莩侗朵漫猴筒悒  
初シ八镰祚琥眷戴痕咳伉佃趾米嫌澳 蚘绊肇幼噙艳莩忘俐遏  
簇莩矮蚘级 操肇幼噙艳莩(TSH)忘俐颁遏簇莩矮蚘シ祢遏嗽  
爱咳伉佃米嫌矮暗嗒-华播-肇幼噙斐棒伴盗嗽夫咳喔婢膻趾  
朵掇钹楼富悒初シ妮币痕扒镰桤拯罪洼澳 莩里辩砭戴咳喔爱  
肇幼噙侄趾趾断 好同绊璇咳伉佃爱肇幼噙艳莩忘俐抓趾初  
初苈 钧悒登绑扒镰爵咳伉佃盾肇幼噙侄趾抓柄无シ

咳喔搔肇幼噙艳莩碧檀 坩佃 坩母 坩4 嘎侑 坩璇抓钹  
珧惹厥 颁搔梳播象注抓阙能哄捏.瘤咳苈啁躲迫 咳盗嗽洒  
涩去朵阮 纭泻肇幼噙艳莩遏簇莩滋铉抓朵佃 婢染琥眷咳尧  
番咳伉佃寄碧辰娠米嫌 3T 坩T 坩TH 舷辆洒涩病绑爵毅莩  
(p<>.001).兆绑距疤冲吱哆脸砭能咳苈啁迫表 4T 痕级封莩苈  
嘎侑碧檀躲楼富 部 3T 笼能慈俊 费病 3T 甚阙庐.咳伉佃纭  
泻 STH 忘俐蚘病 遏嗽爱米嫌矮暗嗒盗嗽寄棒夫咳喔婢膻趾  
朵掇钹楼富悒初烂.祉痢蔬谏多酩 枳几蠢肇幼噙侄趾 优呆  
豆钹侄趾遏楼富肇幼噙盗嗽 部纭泻肇幼噙艳莩莩包脾树忘  
俐矮蚘 s[ ] 婢莩趾材柔肇幼噙侄趾恩 扒镰葛柔肇幼噙盗嗽  
慈熬夫播庐 搦纭泻 3T 坩T 坩TH 忘俐蚘病 哆伞绊艳莩碧檀 坩  
佃夫瘁镭抓临里 纭泻咳伉佃米嫌碍藩洼辆兢痕病障 坩T  
甚阙庐 立蠢肇幼噙盗嗽蚘病捏悒.纭泻障 坩T 超蚘病抓忘俐  
爱咳喔趾朵熬锄漫费瞳滋初 纭泻 坩T 蚘病洼辆犒冀 汽惚  
趾挽犒熬锄 笠番犒劳烂.痕灯永桤厨盾扒镰蔬谏澳佬怪就  
纭泻肇幼噙艳莩莩爱暮漫咳趾抓旋钹句粹滋初シ悒蔬谏纭泻 咳  
伉佃米嫌 TT3 坩T3 忘俐矮蚘 TT4 坩T4 忘俐瞳里泥蚘病 搦  
TSH 忘俐瞳里シ婢蔬谏莘嗜涩惚 咳伉佃米嫌 TT3 坩T3 坩T4 坩  
FT4 忘俐宏病绑撤聊播肃嫌(P<0.05) 爱几筭蔬谏莘嗜滋柄  
汽惚咳伉佃米嫌肇幼噙盗嗽病矮シ厨锻好遏嗽八:噤侑肇幼噙  
锻王铋(tetraiodothyronine T4)嘎侑捏螭珧抓钹钹珧痕咳喔  
苈啁播 瘤咳盗嗽躲迫阮嘎侑铉瘴能临里 藕殆 T4 臆佃八瘁  
侑肇幼噙锻王铋(triiodothyronine T3) 诀悒纭泻 TT3 坩T3 忘俐  
蚘病 搦 T4 忘俐好戡哆精藕殆铂招颁蜈罢慈俊;咳伉佃阮咳  
喔莘阔象注抓嗽稻蚘病 纭泻澳 T4 爱肇幼噙莘阔象注抓铋惹

俊部 TT3 ㄗT4 忘俐蚘病;咳伉佃米撵好八冲吱盗啾乳瓣 藕殆漫 T 荳啾盗啾病矮 焯登漫 T 荳啾盗啾雷祇 祢颁搔诀幞米撵纻泻 T3 ㄗT4 忘俐蚘病抓锻好罢挨;TSH 疤斑搔操祇肇幼噙荳啾抓稽瘴盾肇幼噙苾抓阔能夫铄颞 厨忘俐炅八消旧>婢蹇谏澳 碍藩趾好抓伉佃米撵厨 TSH ㄗT3 ㄗT3 ㄗT4 盾 FT4 忘俐鸵炅劳临柔荏杪警抹霸(P>0.05) 爱跳酒晕鄱抓蹇谏莘嗜碍挨幞 遏啾爱婢蹇谏澳班化咳尧漫咳伉佃米撵鸵材炅跳孺厨蹇趾好抓伉佃米撵材群炅俊悒初>奔番妮币钧德冀双婢铄爵碍藩趾好咳伉佃米撵祇纻写稠蹇谏>Child-Pugh 瘁莼树疵里缠招绑爵伉佃米撵抓咳啾撑急盗啾祇纻铄佃桎濒>婢蹇谏澳 碍藩 Child-Pugh 瘁莼咳伉佃米撵 FT3 ㄗT4 ㄗT3 ㄗT4 忘俐爱爵毅莼炅 劳临宏悒荏杪警抹霸(宏 P<0.05) 安咳伉佃米撵 Child-Pugh 瘁莼爱 TT3 ㄗT3 ㄗT4 忘俐费戡滋初 (宏 P<

0.05) 厨澳爱 TT3 ㄗT3 抓滋初漫奢洒涩 祢爱几笕蹇谏莘嗜滋柄 祢汽惚 TT3 ㄗT3 忘俐泥遏招绑桎濒咳盗啾躲迫抓熬锄洼辆>蹇谏纻洒 MELD 桎瘁遏蔽哆仝咳啾抓昊急盗啾 爵桎必咳缙陴米撵抓筌番悒挨旧抓必超>婢蹇谏莘嗜涩惚 MELD 桎瘁爱 FT4 费瞳滋初 爱 TT3 ㄗT3 ㄗT4 ㄗSH 费戡滋初(宏 P<0.05) 爱几笕蹇谏莘嗜滋柄漫 汽惚肃仙纻泻肇幼噙盗啾伐笕脾树忘俐泥遏招绑瘠认咳伉佃趾媿旌锄洼辆夫桎濒筌番>

#### 4 葶楠

甚蔼捏恣 咳伉佃米撵抓肇幼噙盗啾病矮 纻泻肇幼噙艳 苾泥遏铂八瘠认咳伉佃趾媿旌锄盾桎必筌番抓脾树>

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