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· 肝肿瘤 ·

욲黎싙齒髂귁재믩뢺숀뫟죓돋릵곸뿧죡쎯 T 솽髽쏌몿꺵 NK 솽髽鶏魒궴

邓 俊 陈 卫 陆忠华 周 颜

【잿쒠】뛄鶏 铱鰭욲黎싙齒髂귁재믩뢺숀뫟 侘餫茼稭儥죓돋릵곸 鱙 솽髽쏌몿꺵 醫譣 솽髽鶏魒궴 愩挙 댂욲黎싙齒髂귁재뀐볡 餫茼稭 죓돋錶鯧었돼볂솽髽쓌껱鰛귁재곒 愩挙 댂꾦뇖뻪껱뫐몿뿧죡쎯鱙쬷髽 綩攫鱙 솽髽綩攫對綩戮緦跐 솽髽꺵 鈅 솽髽뷎룂。뀚가 욲黎싙齒髂귁재 紳罫鱙 솽髽綩攫鱙 솽髽緦跐 솽髽 鈅 솽髽鶏魑댂꺵 綩攫對綩戮魑좺黨魒삯 桿彝婶彝挙婶戮鐮婶摯婶嶂戮婶鑿婶滓獲婶攫婶挙钬곒 鐮戮 쇙죽鷑엟꾦뇖뫐 奚刪掩暯婶椫彝愩婶攫鐮婶彝鐮婶嶚婶彝鐮婶鵊婶嶚婶椫婶 彝婶椫鐮婶嶚暯鐮刪 죓돋곸 彝 죡곒 愩鱙 鐮彝鋼椫愩婶鐮婶戮鐮婶挙婶嶚婶鐮攫鱙 솽髽鋼挙滓婶彝婶摯鐮婶 彝嶚婶嶂鋼 솽髽鋼彝攫婶鐮婶桿戮愩婶嶚婶攫鐮彝 髽鋼彝彝婶攫婶滓戮愩婶彝钬鋼 뀌죓돋릵믔밂鐮 鱙 髽鋼愩婶彝婶彝戮魒婶鐮愩婶桿鈸鐮魑댂쇇꾹鐮鋼攫戮魑 髽鋼彝婶椫婶嶚婶攫鐮只밂鐮剌쓱냆엕쁠껊썴쓧彝鐮婶嶂戮彝鋼 욲黎싙齒髂귁재鵖麋鴦엟뗧쓤쑫죋징뺕錯旧稭 죓돋뇎鷥꾋룩 鱙 솽髽쏌몿鶏뢼곧鐮밂齗 鈅 솽髽뷎뢼。

【氤꼁鴿】 욲黎싙齒髂錶믩뢺숀뫟볺錶蟯 돡髖솽髽쏌몿錶믩몰뮶믐솽髽

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Changes in peripheral T-cell subsets and natural killer cell in patients underwent radiofrequency ablation for primary liver cancer Deng Jun錯hen Wei錯u Zhonghua錯t al. Department of Hepatology錯he Fifth People´s Hospital錯 Wuxi 214005錯iangsu Province錯hina

【Abstract】Objective To investigate the changes in peripheral T lymphocyte subsets and natural killer 鋼NK鋼 cells in patients underwent radiofrequency ablation 鋼RFA鋼or primary liver cancer. Methods 23 patients with primary liver cancer were recruited and received RFA treatment. The changes in the proportion of $CD3^+$Tcell錯$CD4^+$ Tcell錯TL cell錯K cells錯nd $CD4^+/CD8^+$ ratio in peripheral blood in 23 healthy controls and in 23 patients with primary liver cancer before and after RFA treatment were determined by flow cytometry. Results The proportion of $CD3^+$Tcell錯$CD4^+$Tcell錯TL cell錯K cell and the $CD4^+/CD8^+$ ratio in patients with primary liver cancer were 61.9±13.8%錯3.3±5.0%錯0.3±4.9%錯.4±1.3% and 1.4±0.6錯espectively錯ll of which were significantly lower than those in healthy controls 鋼75.7±12.3%錯1.1±10.1%錯9.7±5.8%錯6.7±8.2%錯.7±0.6錯<0.05鋼鍿n contrast錯he proportion of $CD8^+$T cell 鋼25.5±5.1%鋼n patients was higher than that in healthy controls 鋼21.7±6.7%錯<0.05鋼鍿n patients with primary liver cancer錯the proportion of $CD3^+$T cel鋼72.1±9.8%錯3.3±7.3%鋼鍿錯$CD4^+$T cel鋼39.6±10.9%錯9.0±10.0%鋼鍿錯 CTL cel鋼14.8±9.6%錯2.3±7.4%鋼nd NK cel鋼11.1±4.9%錯2.8±8.1%鋼were increased錯hile the proportion of $CD8^+$T cel鋼22.6±5.8%錯2.0±9.6%鋼vas reduced錯nd the $CD4^+/CD8^+$ rati鋼1.7±0.8錯.9±0.4鋼vas decreased鋼P<0.05鋼ne or two weeks after RFA as compared to that before RFA. Conclusion Most of the patients with primary liver cancer are in immunosuppressed status錯nd RFA therapy can adjust the balance in T cell subsets and increase NK cell counts.

【Key words】 Primary liver cancer錶adiofrequency ablation錶 lymphocyte subsets錶atural killer cell

욲黎싙齒髂볌샗ᄀᄀ鰻꼀鶏麋싙죜돻쵋쒈鐫뒰릵볛볺뇷맕鮂뫙삯웬룟齒髂鶏볜썒죓돋黛鶜㵎鐫鷅쏕냄뻹뗄錯 볛볺곸귁재뗧쓤轜뛡쇇꾹鐫齒轜뛡뷼겫께죝鐫뾚엕뇎뛡鮭쇚齒髂鶏즯쓋꺵驤黎鐫뾚鰭죓돋볛靚㵎鐫鷅쏕냄뻹뗄錯 맦삋、鯑黎좧믞鷗엊鷛웟齒웥죜돻鶏죓돋죕얫었뫚맼 끠默鐫삯낲鰭삯싙鶏엕슬죓돋黛鶜쵋쒈。쇇뗌铱鰭돐 뾭썧짼재鐫齊싙鐫퍷胜涿蒉踪淹 粕糙蒉耟膜袴霍粑蒉碃絖涿膜餐餮婶耟餮胜婶糙霍

짼재鷰삯鐫鎮彝擭嶂嶂暯 꾲뷙벦샣섂별鷗샶뫐뗶쓂읇齒鮭뉗 鷗쓀짼재鐫鶜놢 뛕鐫拳桿 뷩鐫鶜썴헜뉗鐫별쏕냄믿鐫ᄀ죓쓂밾ᄀ 쒯鵋볇齒鮭鶏잼麁연죓돋썴쏕냄。腠胜涿蒉踪淹 鱣袴霍總蝫 霍椫椫嶂桿愩桿碃 餮膜 婶耟餮胜 뾭썧짼재鐫齊싙鐫퍷胜涿蒉踪淹 粕糙蒉耟膜袴霍粑蒉碃絖涿膜餐餮婶耟餮胜婶糙霍

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絆狎㟲솽髽、絆鱙跐 솽鑿鄎 솽髽魈댂곒 絆狎㐰對絆鄭魈쬆 鶲魒궴錯쓩뻃뻛 餫茁稜 麂욲黎싙齒髂귁쟤귿뻪놾죜돻 뗧쓤轎뛡鶲억쇱。

짏돔연黛鶸

쓀、쏕냄麂쇸 샗뇋 愼嶗彝彝 뛯 彝嶗 웆죆 愼嶗彝擧鼎鑓嬰鴉 馴稜 죓돋。봖곸냾齡역翮齒、좿썷곒좬鱍 웆껩볚죓鶲 愼擧 댂욲黎싙齒髂귁쟤鐳죄 彝歟 댂鐳뢯 暻 댂鑓돋。

뛯돩 愼歟楠愼 뷯錯뢼냾뛯돩삯 擭歟鵻擧婥彝 黌곔

뷉、뿧죡쎯돡髖솽髽쏌몿鶲껱鰛 뗖뿧죡쎯

愼嶗嶗彝 뛯鷗髖꿱몰 ᄚ齒髂쎬봖귦쓮쁕갂鶲욲黎싙齒髂 愼脞蹤錯說翲稜 뇶뾾뇶뛼쎯 彝嶗嶗蹤錯비뫰 絆狎墜蒂蠬鱙絆鎰鶲돞鵚쟴麂연黨룟魔직錯날억쇶쎬錯빈뻜鷂高調羅閂調룡 絆罫歟墜閂脫鎰絆罫擧墜閂絆暻 묂뮰魔껌鶲鷙뇐뒦뇶뻪 銅뗅 ᄚ齒鴨짰쬀鮭닲쎬귲껱몼쟴。룩죕 蚤筷 寘쏷싙 愼愼 댂錯筷褡耾 餈霎 耾霎 罫薨耾讀薨霎μ 蹤鑓本被墜翩蠬鱙絆鑓鍗需桿蚤筷 寘쓺싙 彝 댂錯뢱벶髭엕齒얷궴 愼彝 댂鑓棘髭엕齒얷尋墜閂脫 魔뮰魔껌鶲鷙뇐뒦뇶뺷調뗅 ᄚ 筷褡耾 餈霎 罫薨耾讀薨궴 愼 댂錯膀웳涼 愼涱 齠鑓뾢낻 愼嶸嶗嶗耾胭鑓齒轎뛡 絆膜薨鑓鑓眞嶗踪錯魷黨귱웍錯병 샇魏 ᄀ 몽뮰 擧嶗胭薨霎錯날稜 꺻 愼嶗 댂鑓筷 꺻 擧뢱벶쎦웳 愼擧 댂꾦뇋쇜쎯재짼 鞣閂褡 墜耾竈 鴦닲魷黨귱곔곸뎧꺹믔귿껱鰛

삱、뾸껋쎬鴦닲 얫었 髜閂髜髜彝楠婥嶗 뫬꼃魔봂냢 꿽싕뾸껋쎬黨샻鑓얋도짏돔쓩 $\bar{x}\pm s$ 뮋볃鑓歐껩魍꿔鯧었 t 껱쏯錯煖嶗婥嶗暻 삯엕뾸껋쎬쓧쓪

꿠 가

욲黎싙齒髂귁쟤웟 餫茁稜 죓돋릵곸뿧죡쎯 鱙 솽髽 쏌몿연젂鱠꾦뇋쟤魈꿔꼀뮋 彝 꿠가쇙볃鑓욲黎싙齒髂귁쟤 馴稜 릵 絆狐鱙 솽髽絆狎鱙 솽髽絆鱙跐 솽鑿鄎 솽髽뷏룂꺵 絆狎㐰對絆鄭魈쬆냾鶲엟젂鱠鹿쟔짰鑓쵝쓱 놭쓷냛듮錯벾었 愼愼藁絆膜薨孍涿 쟔짼삯鱖쓦쟔鴨鴦뫰 죓죓죽쇹調P煖嶗婥嶗暻鐪讎鑓絆鑿髽뷏룂웳뗄쇙齘엟젂 믩륆髖鶲鯢삸鑓鵚鴦벶즧쓧魏놯주쒯쎯庶곒鶿庶꿔鵖 鱠鹿쟔짰 銅P煖嶗婥嶗暻鐪表웟 馴稜 죓 돋 콬熱梢 髽 黨좬鑓鼞 絆鱙 뮰떵좩벺鱖쓦쟔껧삸엟髖鶲鯢삸鑓뵋鴨 絆狎㐰鱙솽髽絆鱙跐 솽鑿鄎 솽髽뷏룂밂齘錯絆狎㐰對絆鄭 鵚鶲냛鯢맕놯웁 嶗婥擧耾胭 鶲맕뇟鑓뵋 륆鶤꺰쟔쑨鱖쓦잴 魈쟶밂齘 鑓 絆쬦鱙 솽髽뷏룂쇇꾹鑓뎐 죓돋릵魈鑓쵝 鴨鴦뒼낻鴨鴦뫰髖鶲鯢삸鑓絆鱙 뮰떵몼鶴믩륆鶤꺰쟔 쓱엕뾸껋쎬쓧쓪鵚P煖嶗婥嶗暻鐪讎鶤뫙鷑엟젂鱠鹿쟔짰뷏룂

魈 彝꾦뇋뫐연욲黎싙齒髂귁쟤 鱙솽髽쎔묯鵰鉊錯±鋼驃궴鶲魈꿔

	댂봂	綩擧鱙 솽髽	綩攜鱙 솽髽	綩殲鱙 솽髽	綩攜对綩數	緡跐 솽髽	醬諗 솽髽
젂鱠뫐	愼擧	椄暻	±攜	±愼	±彝	彝暻婥	彝
齒 髂 餫茁稜 릵	愼擧	桿彝	愼暻婥	彝婥攜	愼暻婥	彝嶗婥	攜婥攜
餫茁稜 곸 彝 죡	愼擧	±椄愼	擧彝嶗	±愼	±彝	彝攜婥	彝
餫茁稜 곸 愼 죡	愼擧	±椄	擧彝嶗	±愼	±彝	彝欖婥攜	彝

연젂鱠뫐魈錯鼎*P*煖嶗婥嶗暻錢컨죓돋곸魈

뻛 든

죜돻뇎쓙쀹갂麋죚뿃낻뻘쑲귿뻪鶲뗧쓤껥볘[1]。

齒髂솽髽뇎쓙쀹갂麂짙믲魑뗫뇇욲鶲싣볓쓙꺵齑魒 齒髂짰쬀죡사鶲삧궼낸늹뻘魏귿뻪鶲뗧쓤벻魒연誤 근錯鶲鷹黎믿죜돻뗧쓤뻘쑲。귿뻪鶲뇇죜돻슬얫주쒯 볌쀹갂뻪뛟鱙鶲솽髽꿮鱖鶲솽髽뗧쓤늹黎귁짼었鶲錯얼 룩 絆狎鱙 솽髽꿮鱖鶲뗧쓤뮰믐짼었웟뇇죜돻뗧쓤죕 黎귁薁졅짼었。齒髂귁쟤鴿麋봂鵑웟뗧쓤쓡죋錯솽髽

뗧쓤鵚뛡鶲쇇錯뾹죡쎯鱠鮭쇚 鱙 돡髖솽髽쎔몿샎듗쓩 꺵 錋 솽髽봂도鶲쇇꾺 [1]。쏕냄黎쇚귁쟤 穱閂 연 絆狎 솽髽、絆狎㐰對絆꿛곒 醬諗 솽髽鱱齑쇥氤錯麃연 絆뢯歎 髽鱱젂쇥氤[9]。齡냢 絆臒歟鶲魑骏연黯뇎꾰 絆꾣鱙솽 髽黨삯쑫죋싙 鱙 솽髽 錯絆臒歟곒뮰믐싙 鱙 솽髽 齙絆鱙跐錯 齒髂귁쟤뽗죡쎯 絆꾣鱙 솽髽쎔 몿鶲訊黨듗밂齘삯 絆罫歟臒歟밂齘錯麃 絆鱙跐 솽髽봂 도쇇꾺 근뻪뗧쓤뻹魑볌솽髽뗧쓤鶲꾺鶟볌齒髂鶲

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黎믿、즯쓋꺵鑲黎鶲죝쒯욲쓷颯彝彝怖。

뀁뛯늹鐺阳稚 죓돋齒髂鶲鱖쎽뷞룶꺵곒얫었鐺솏鰭삯껑볛볹맕鮨곒꿮뫰죓돋곸鶲鷗묂鵖齒髂죓돋黛鶸鐺晞맗魂뫔삯볌슦齒髂齡죓싙죓돋볛鹿쬛쓀颯彝慵。黚稚鶲귾魆욲닾볌뾭갂쟬싒鷅꺰볩鮭齘뢺믩뢺鯖鐺뵈짮쬀뛟닰짘鰔믿뇱뷞쟶鷞뚫鯤鰔뫍錯냞鯢샇鹿뇎駿 洚嶚彝愩嶩錯쓦룵髖맽죜돻짮쬀솽髽黎믿뫍뜂瞜싙魒뫼鐺鷹駿鱖뮶뗵죜돻곒黜좿즯쓋鶲뜂鶲颯彝掌魆짮 愩拳 댂齒髂귁재鵑웟 鱙돡髕솽髽쏌몿샎듗錯주쒯뻹쇚삯 絀鄧鑠絀狦、絀鱙跠 솽髽絀鱙 솽髽絀鱙跠 솽髽믔밂鐺郚 솽髽믔밂鐺朴鑵絀翠鬶쇖쓥뗄쇙믔밂鐺뵍黕 絀翠鱙 솽髽웷鮭쇚쇗꾻錯뻹뗄 餫茜稚 죓돋곸귿뻪솽髽뗧쓤轎뛡鶲鱖齋믋錯놾죜돻뗧쓤轎뛡엕뷾뻦齘錯黨샻욲쓷뇎뛡삯 餫茜稚 鰔믿鶲齘샇벾죜돻짮쬀黎믿뜂瞜싙궺뛡鐺뵍 짼삯놾욲뛡鍔鰔믿鱔싽싙鶲냞鮵쏜좧黕얫鐺뵍궴놾욲 鷙鱱솽髽閧稚閂絀 鋼鑵鱖죜돻뻝쓱싙 鱙 돡髕솽髽黕얫錯齋믋귿뻪놾죜돻뗧쓤뛒볡징빹颯彝攓鐺曖怖。

鯪뇁색쇜

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