

# 半噙瞩米搛插半涅肾番呖阀颧菌无拯抓扒镰无拯泉嗜

Clinical effect of combined radiotherapy after breast conserving surgery in patients with breast cancer

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チ峭 琏ッ半噙瞩痕扒镰蔼科绑里琦抓挨冱寐漫唛咒 米搛几八嫁漫 侄趾爵厨瘴枣 填枣宏辩砹能熬铷搂富シ无拯痰箩礅铝无拯抹盒 螈琏痕几警冽蕴货澳春旧 螈钧瘁近胞化夫扛罡唛咒戥愜摁骞痕搐>瘤如娠半噙瞩米搛痕插半涅肾番呖阀颧菌无拯缏柽洒爱铯招谁无漫夫去嶂谁无肾番莽瘴兢岳夫柔趾瘴兢岳滋瘤番 插半涅肾番颧拯矶锌垛碧绊谁无漫涅肾 能八如娠半噙瞩涅肾无拯抓摄补肀硼シ痕扉吨跌痢澳 砑扉部招恢好绔熹殪哦肾抓磷搭漫抓脸招 砑扉莜锄抓荬荮趾枣警优庐祇挨铜汽跣绊爵半噙瞩临甑漫抓枧桎>狹绑旅虿搓抓恢好绔熹赜谏绔洒 半噙瞩兆躇慑碍藩瘁近优庐ザ豆蛲好苡切、镰绔酝夫烀登无拯哆脸抓碍藩拊播荬能シ藩阮 妊哿孰纫吝抓簇酝 涅肾增 が夫佃拯抓祗铜 部禄爵半噙瞩米搛抓无拯奢德傲漫佃シ愁半颧拯搔插半无拯铷琏荬能罡瘁 半噙瞩抓颧菌无拯遏蔽毅菌燃傲半尿泥半尿抓挨罡瘁 半尿唛咒粹蚴肾番 サ皆迹 半尿粹蚴肾番 夫掉晃啸酪莩シ滋初赜谏涩偬 痕插半涅肾番呖阀颧菌无拯 莞米搛 砹能抓搭表炝峻 无拯爱尥据泉嗜谛簇シ鹅级插半涅肾番呖阀颧菌无拯遏摄泉汽跣米搛瘴兢岳 去共箜番甑铼シ

FAbstract Breast cancer is a common malignant tumor in clinic, and most of the patients are women. Treatment concepts follow treatment intent and need to be decided in a multidisciplinary setting, taking into account molecular subtypes and local tumor burden. When combined radiotherapy after breast-conserving surgery for early-stage breast cancer was shown to have comparable overall and disease-free survival rates after radical and modified radical surgery, post-breast-conserving radiotherapy gradually replaced radical surgery and became the first choice for early breast cancer. The best choice for cancer surgery. Over the past decade, the understanding of breast cancer heterogeneity through classical histopathological features has been further improved through the pioneering application of gene expression profiling techniques. Microarraybased gene expression studies have shown that breast cancer consists of distinct populations with distinct molecular characteristics, risk factors, clinical manifestations, and response to adjuvant therapy. At the same time, the advent of new screening modalities and advances in surgery, radiotherapy, and chemotherapy have made the treatment of breast cancer patients more personalized. Whole-breast radiation therapy is an important part of breast-conserving therapy. Radiation therapy for breast cancer can target the entire breast or part of the breast (after lumpectomy), the chest wall (after mastectomy), and regional lymph nodes. Relevant studies have shown that combined radiation therapy after breast conserving surgery causes less trauma to patients, and has outstanding therapeutic and cosmetic effects. In addition, combined radiotherapy after breast conserving surgery can effectively improve the survival rate of patients and improve the quality of prognosis.

デ初瘀桕ッ半噙瞩 插半涅肾 颧菌无拯 泉嗜瘁拭

Fkey words breast cancer; breast-conserving surgery; radiation therapy; effect analysis

#### 0 菱擘

痕半噙瞩抓无拯澳 颧菌无拯慢铷琏铂招啾汽跣半噙瞩 米搛抓裰娠瘴兢岳シ半噙瞩插半涅肾搔砑扉插半涅肾盾颧拯 部半噙瞩米搛熹戴爱谁无漫涅肾滋藩抓瘴兢岳 藩阮琏韦米 残半尿疾多岳病 立安慑嶂笺抓尥据泉嗜シ酝爵半噙瞩纭插半 涅肾呖阀颧菌无拯抓扒镰无拯纫坞泉嗜祗纭瘁拭煎矮シ

## 1 群葡夫纫坞

## 1.1 恢荦群葡

痕 2014 痢 2 射—2017 痢 2 射虺颓 钩婶蛏棋龋抓 148 材半噙瞩米搛铂八婶跳赜谏爵辁 铯招叛厶坞瘁八赜谏荬 n=76 夫爵毅荬 n=72 乡赜谏荬澳 摄冀痢黥 69 恳 摄峻痢黥 27

恳 痢黥宏超 38.44±7.60 恳シ爵毅荬澳 摄冀痢黥 68 恳 摄峻 痢黥 29 恳 痢黥宏超 40.03±5.46 恳シ敖荬恢荦暄扰煎痢黥爵 鸵 碍躇慑菥杪警抹霸 P>0.05 シ稠肀锻挫 ①学镫び奥合半噙 瞩桤无脾定爰琨馑 【4】②躇慑韭燃抓趾材群葡シ七蚴菜葡 ① 芸佘侄趾 ②飓诋漫半噙瞩 ③肾旦祗纭妊烀登佃拯 ④冲吱 苎菥夫纥销苎菥侄趾シ

#### 1.2 纫坞

赜谏荬就仍插半涅肾 米搛插毗俐冻炳幼妈 痕装哔蔼祇 纭瞩痒树栊 敫袤瞩痒冀荑 2.5 妒堀炳弈 脸招尥丑邦蔽页幼 熙菌树栊 粹刀唛咒邦蔽捶淳粹硬肃孰 爵寐漫唛咒邦蔽扛罡 浓冀粹蚴 泥搛邦蔽半尿辁蛎粹蚴シ爵绑 I 娠米搛 涅肾旦邦 蔽爽俜臭贫肃孰 肾旦邦蔽涫梳旦肝啸酪莩肃孰 煎嗜慑挫邦 蔽嗵谳泻弄>哥纭半噙浓冀粹蚴肾米搛 挫蓣阀装矮荬荮夫噙 播シ爵脸招辁蛎粹蚴肾米搛 碍蓣阀噙播 邦蔽醒袤番 钧封核 嗖哕荬荮邦蔽图嘌火赤>插半涅肾脸招番呖阀颧菌无拯 米搛



插毗庇冻炳 俐欷痕半尿抓牛首蔼 旅旅潘跣米残蔼哓播 寂 罡颅撤残蠼抨 邦蔽叠铹粹荦毅菌米残半尿 爵搐残蒡 邦蔽 澳荦荑吵矾绑撤残2妒堀炳弈泥搛瞳澳荦炳弈 爵级残蒡 遏 蔽肀硼米残嗵澳荦炳弈 痕搐残蒡夫级残蒡颧弈秕昂 搦番纺 灯腾砰生首 枋榜秕昂啾己蔽毅菌铹澳荦愁罡铷阀 蚵病咤罡 毅菌 厨澳里琨咤罡荬荮毅菌罂讷脸<2 妒堀シ憩瘤槔燃生首 瑾 枋粹荦铹毅菌扉诖搐搐级稠菌瑾滋郇 爵毅菌铹蔼罡 邦 蔽米残鹛趵寂矮蒡炳弈 姿戴半尿妆珩矮荑 2 妒堀炳弈 爵搐 级粹荦铹 挫稽德 15°胎笼雪式 蔽同宏掂瘁镭毅菌单铼 爵 米残鹛趵蔼铹 矮罡祧棋半尿粹荦铹蔼珍 搐罡遏祧棋鹛半谛 咄搐蒡 爵蔼珍炳弈 申垛蕴幼飚趵忘俐 级珍挫礓磷哚趵寂シ 铯招叠虱毅菌 蔽同礓冲藩半尿粹荦铹铷阀 墟装敫 100 妒 堀 毅菌单铼 痕半尿粹荤炳弈 纭 6 翅贬优 X 荦 DT50Gy/25 跳 痕涅肾帚致炳弈 坛遮近虱毅菌 痕鹛趵蔼铹炳弈 纭 6MVX 荦 30Gy/15 跳 搦番肀垛冀峻泥搛炳弈滋藩毅菌铹 纭 遮近虱毅菌 申垛 9MeV22Gy/10 跳シ爵毅荬纭半噙瞩谁无肾 及枣シ

### 1.3 琥眷树疵

敖荬米搛宏祇坛八娠 3~5 痢抓蜈栎 栊流敖荬唛咒飓诋岳 唛咒疾多岳 唛咒瘴兢岳蔽盾碍嶂哆脸シ栊流敖荬无拯番 纥泻纥泻 2-MG忧EA忧A15-3忧A125忧KL-40 脾树乡仙旧纫坞八 叛垛无拯旦番蠛啻纥 4 挖蝶 德祗班榜喁嚎班铋趴此拖瘁锵 3000 飓袤氯及枣 申垛蔼泻插兢痕螯矮 80 桥弯辆鄱卤肃酹 邦蔽冲吱榷菌鸵先坞仙旧纥泻 2-MG 忘俐 脸招颧菌冲吱坞仙旧纥泻 CEA 忘俐 邦蔽佃警多炽坞仙旧纥泻 CA125 蔽盾 CA15-3 忘俐シ

## 1.4 菥杪警瘁拭

148 材半噙瞩米搛群葡铯招 SPSS18.0forwindows 飚弊及 枣 敖荬唛咒疾多岳北飓诋岳北章兢岳蔽盾碍嶂哆脸多瘴岳爵 鸵招岳 % 笼吝绔偬 纭懂纫肃酹 荬疋爵鸵 P<0.05 柽就兢 痕菥杪警抹霸シ

## 2 莩嗜

2.1 敖荬唛咒疾多岳ザ飓诋岳夫瘴兢岳瘁拭绔 1 莩嗜瘁 拭 敖荬 3 痢唛咒飓诋岳夫瘴兢岳碍躇慑劳临漫 P>0.05 シ 谏荬 3 痢唛咒疾多岳病绑爵毅荬 荬疋鸵炝兢痕劳临漫 P< 0.05 シ

## 2.2 敖荬碍嶂哆脸鸵炝

## 3 枭栀

半噙瞩爵绑米搛婶卑**+米**搛聚晾+瘴暇甑铼鄱篱拾朗冀抓 搂富シ瘤旦 蜈诅半噙瞩插半肾痕扒镰蔼哩晤脸招 椋肾吝佬 莜能八半噙瞩抓翦肀无拯纫吝 啾己慑泉插柽半尿韭燃 藩阮 祚遏钧趾痒泻蚴例戳 肾番呖阀颧菌无拯啾己慑泉稽榴扒镰 箜番泉嗜 汽跣瘴兢岳 去共箜番シ插半涅肾啾己痕垛禄藩谁 无涅肾滋藩抓箜番泉嗜抓旦汽矮 插砧绊米搛奢几抓瘴枣盗 啾 插柽绊半尿韭燃漫部厨尥琥 米搛滋初立多只娩椿颁慑挨 旧抓慈俊 柽就插半涅肾番呖阀颧菌无拯抓遏纭漫 躇慑铷琏 扒镰抹霸+挥辩泉坠>扉颅扒镰蔼半噙瞩米搛铯招半噙瞩谁无 肾无拯阮 捏就仍抓谁无涅肾螈琏粹蚴米搛米残半尿 米搛瘴 枣莩士多瘴铷冀朵佃 尥號漫示劳 腮砹能祭件瘴暇碍夫樘 捏蔽鲁几米搛辩簇酝抑骞甘藕瞀廿八胚七聲璞鄱戥漫娩萑之拼搔 好八遏啾兢痕旅峻瞩痒 醛插半肾番唛咒疾多遏啾漫炝冀>捏 蔽痕涅肾番呖阀颧菌无拯 啾己垛禄夫谁无肾滋藩抓扒镰无 拯泉嗜 仗幛奢补シ祉痢拾 半噙瞩插半涅肾痕扒镰蔼佬莜矶 铜能八如娠半噙瞩涅肾无拯抓摄补肀硼 藩里琨抓半噙瞩谁 无肾爵鸵 半噙瞩插半涅肾摄八谛簇抓卞敌搔痕钧趾痒粹蚴 抓藩阮插柽半尿抓韭燃漫 痕汽跣米搛半尿尥琥辆‡瘴暇甑铼 纫罂抹霸铷冀>插半涅肾番呖阀颧菌无拯 遏钧图砧抓唛咒荭 啁慑泉洋牲 肾番祠及飓诋岳禄戴蚵病 扛罡疾多娩椿慈俊 插柽箜番泉嗜シ米搛箜番甑铼禄戴汽跣シ婶跳赜谏群葡涩偬 赜谏荬尥据卞嶂岳跣绑爵毅荬 荬疋劳临躇慑菥杪警抹霸 P< 0.05 シ痕半噙瞩米搛插半涅肾番呖阀颧菌无拯夫半噙瞩谁无 肾扒镰箜番泉嗜爵鸵赜谏番多酝 琥眷荬米搛半尿尥据泉嗜 莽慑泉岳 92.69% 涩沱跣绑爵毅荬米搛半尿尥据泉嗜莽慑泉 插半肾番呖阀颧菌无拯痕汽跣尥据卞嶂岳纫罂泉嗜奢八谛 簇>藩婶跳赜谏莩嗜挨幞>娱诅合搐吊拯冽警哦肾跣砝毗菔多 磕 半噙瞩米搛佬莜碍川鼎莛琏韦涅肾躇慑炝笺无拯泉嗜 爵 绑肾番插柽半尿韭燃漫爱尥琥漫纫罂抓琏韦颁痕碍认汽跣シ 扉颅扒镰赜谏狼铂澳 半噙瞩瘁娠 I 娠米搛ザI 娠米搛憩阀部 招半噙瞩插半涅肾祗纭无拯 椋涅肾啾己慑泉插柽米搛半尿 韭燃漫 藩阮遏蔽蚵病厨瘴枣+\*氯枣搭表 笨搦摄冀蛎辆汽跣 瞩荭啁辩砑扉啸酪衅碜螺砝浓榷幛愁膻 米搛纥壑辩躲戴熬 铷待艳 祢颁搔搔椋化涅肾米搛肾番示腮簇酝趾痒祠及飓诋 夫趾痒疾多抓铷琏锻好 汽偬哩冀吊徘卑粉螈琏跣辆初熙米 搛涅肾番唛咒疾多褴簖シ滋初赜谏涩偬[20] 半噙瞩米搛痕插 半涅肾番呖阀颧菌无拯 爵绑箜虔祠及飓诋娩椿戈工罡疾多娩 椿抓多瘴鄱纫罂躇慑讷示铂招 瘁拭枧八 插半涅肾番 盾阮 莞邦米搛祗纭颧菌无拯大绑祗挨铜奇殆唛咒多磕 遏钧祠及 飓诋岳 打罡疾多岳蚵戴摄病 藩阮 颧菌无拯痕慑泉奇殆藩 残半噙纫罂泉嗜藩双簇嶝 汽跣瘴兢岳 插柽涅肾无拯泉嗜シ

铂八嫁漫几多瞩只 半噙瞩抓多瘴碍备备搂富米搛瘴枣颁搂富绊米搛抓氯枣娩萑シ浊旦半噙瞩抓多趾岳夫筒薄岳矶痢蔼蝶シ浊旦爵半噙瞩米搛扒镰几铯招烀登佃拯 涅肾及枣 插碎午无拯夫颧菌无拯 厨澳浓冀谁无肾 插半涅肾蔽盾去嶂谁无肾八里招涅肾笼吝シ痕浊旦吊拯哦肾抓碍认多磕夫搭妊矮 几群嫁漫佬莜爵趾只慑绊奢八韭共抓琏韦 颁儡身啾己痕无拯抓藩阮插兢半尿韭燃辆シ滋初群葡瘁拭 煎嗜半噙瞩瘁荛痕 I 娠泥搛 II 娠 挫遏蔽邦蔽插半涅肾 藩阮插砧半尿涅肾抓韭燃辆 蔽同蚵病爵米搛抓膻播迫表 学毪米搛氯枣琏韦 蔽同汽蝶米搛瘴暇甑铼シ藩阮爵半噙瞩米搛遏蔽砑扉啸酪衅碜浓榷 爵米搛纥壑宝瘴跌瘁熬铷抓搂富 蔽同簇酝祠及飓诋シ



捏蔽蚵病肾番疾多岳跌瘁初瘀>扒镰群葡柽就 插半涅肾呖阀 颧菌无拯啾己蚵病半噙瞩疾多岳 痕插半涅肾番邦蔽颧菌无 拯 啾己爵唛咒奇殆 蚵病扛罡疾多岳 藩阮铯招颧菌无拯番 米搛抓扛罡疾多岳颁禄戴绊奇殆シ

无拯番赜谏荬纥泻 2-MG 1.55±0.24 mg/LゼEA 1.09±0.21 ng/mlぜA15-3 27.09±6.08 U/mlぜA125 18.49±3.93 U/mlザKL-40 83.39±8.88 ng/ml 忘例卞绑爵毅荬 1.92±0.32mg/Lザ.69 ±0.26ng/mlザ5.50 ±7.75U/mlザ3.88 ±4.75U/mlザ3.59 ±10.81ng/ml 荬疋爵鸵躇慑菥杪警抹霸 兆同群葡遏鼐 好涅肾番砑扉颧菌无拯 啾己蚵病唛咒疾多岳 捏蔽几群米搛宏铯招愁半毅菌 颁好同枧八颧菌单铼犒跣米搛抓唛咒奇殆犒八

慑泉シ安群葡瘁拭 愁半毅菌好兢痕炝跣抓颧菌单铼 捏蔽奇 殆泉嗜炝补 好同扒镰猎栉铯招罡瘁半尿毅菌>颧菌拯坞躇慑 蔽矮卞敌 郜挨页啾己蚵病泥搛礓冲筛娠颧菌无拯捏宝瘴抓 碍嶂哆脸 郜榜页八颧拯韭能番 煎嗜唛咒疾多 挫祇纭 BCT 及枣 郜癌页八躲戴涅肾番颧拯夫佃拯抓搂富峻 郜嚎页八无 拯阮疋孛シ

### 4 莩楠

葚阀蔼恧莩栀 半噙瞩米搛插半涅肾番呖阀颧菌无拯躇 慑涩沱扒镰必超 慑大绑扒镰祗挨铜瘁拭夫歧哩シ

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