

# ASIR 结合自动管电流调制激素应用于腹部低剂量中的分析

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【摘要】:目的: 乙啞唾際关勳▶ 扇尋嫌噓暨ASIR際+唾LL嬢壳嘸佛ㄟ圻學J 峻懷J 以扉J 关豐◊ ^↑ 方法: ▼ 椒咪同彙噓乙勃拈 2019 頰 6 卩-2020 頰 7 卩卻孳峻懷侈互勢厖 90 ) 勢尉T a←b←c 宦替Ghz 30 ) 替局豐唾際关勳▶ 扇尋嫌噓暨兢【豐唾LL嬢壳嘸佛ㄟ圻學↑ 结果: J k0宦以伍` 忙扉优均惋T 六仟吡提噴↑ c1 宦伍` 忙扉低乙嘸J ←a3 宦伍` 忙扉低乙嘸揮↑ a1 L b3←b1 L c3 L 挽伍` 仙何^唯惱J 嶼暨F=0.303~8.536替P>0.05際↑ 才Ghz宦卜卜唯惱儻Lx媯T暨F=89.239~179.445替P<0.05際↑ a宦←b宦←c宦拋勢晒咕呀以乙LxT暨5.75± 1.44際mSv←暨3.36± 1.34際mSv←暨2.58± 1.70際mSv替宦挽儻唯儻Lx惘惘暨F=36.327替P<0.05際↑ 结论: 唾際关勳▶ 扇尋嫌噓+唾LL嬢壳嘸佛ㄟ圻學她关豐替哀嘸侧接奠一儻勢尉惘惘以扉↑

【关键词】: 唾際关勳▶ 扇尋嫌噓唾LL嬢壳嘸佛ㄟ圻學暱伍` 忙扉

## Analysis of ASIR Combined with Automatic Tube Current Modulated Hormone in Low Abdominal Dose

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**Abstract:** Objective: To analyze the application value of adaptive iterative reconstruction algorithm (ASIR)+ automatic tube current modulated hormone in low dose abdomen. Methods: A total of 90 patients who received abdominal enhancement scan in our hospital from June 2019 to July 2020 were randomly divided into groups A, B and C, with 30 patients in each group. Adaptive iterative reconstruction algorithm was adopted, and hormone was modulated by automatic tube current. Results: The image quality of different groups met the requirements of clinical diagnosis. The image quality score of c1 group was the lowest, and that of A3 group was the highest. The noise values of a1 and B3 and B1 and C3 were consistent (F= 0.303-8.536, P>0.05). The other groups showed significant difference in pairwise comparison (F= 89.239-179.445, P<0.05). The effective agents in plain scanning period were (5.75±1.44) mSv, (3.36±1.34) mSv and (2.58±1.70) mSv in group A, group B and group C, respectively, with significant differences among groups (F=36.327, P<0.05). Conclusion: The application of adaptive iterative reconstruction algorithm and automatic tube current modulation hormone can minimize the radiation dose of patients.

**Keywords:** Adaptive iterative reconstruction algorithm; Automatic tube current modulation hormone; Image quality

懣頰啞替AR 勳` 勳唳J 吡号嶼替仟才厖偏舛莖伴全← 偵奠丁媯挽乙懷座揮嫫 挡伉T 六J 全噴关豐↑ J AR 勢 厖惘惘σ 侈一勢齋摺摺ざ刻意圖孳cc■ ◆ 孳噓V↑ 食寔捻 J 惘惘以扉啞噓T 提00匡剋媯吡咄呀挽←侈侧弱惟嫫替J 懷T 佻墀咿官才家咄晏卸涸中cc伍` 忙扉↑唾際关勳仵 勳▶ 扇尋唳J 娉心她 AR 扇尋嫌噓暨豐勳▶ 嫌噓卹媯同固Lx 卩循滄替捻J 伍` 仙何丁勃厖(E)伍` 乙懷座V↑ 唾LL嬢壳 嘸佛ㄟ圻學她关豐哀咕唳捻J 惘惘以扉替厖(E)伍` 忙扉↑ 啞媯媯▼ 勃拈 0. /7 頰 4 卩+0. 0. 頰 5 卩峻懷侈互勢厖 7. ) 勢尉T ) 替乙啞才宗唾際关勳▶ 扇尋嫌噓 唾LL嬢壳嘸佛 ㄟ圻學关豐剋儿替墀匀惘惘↑

1 资料和方法  
/ / J 嶼悚吗  
懣Z 勃拈 0. /7 頰 4 卩+0. 0. 頰 5 卩峻懷侈互勢厖 她 7. ) 勢尉↑ 宙夕哈N暱暨/際惘伏固皆替nA卻孳LLx 卩 T 卩> 尉暱暨0際暱澤T 六椒怙悚吗尉暱暨1際剋剋k0 剋 媯尧媯剋k0 剋 J 尉↑ 卵掃哈N暱暨/際J 扇峴←岩π哀J 夕尉暱暨0際儻唯以食涸惘扇替涸中伍` 忙扉尉暱暨1際J 惘惘T 媯媯尉↑ ▼ 椒咪同彙噓× T 乙宦啞官替\_宦 1. ) ← `宦 1. ) ←a宦 1. ) ↑ \_宦頰斃 2/+5/ 儻替拋优暨34./ ± 3./際儻暱揮 /24+/57 ak 替拋优暨/40,32± 3,32際ak 暱 卩扇 24+54i e替拋优暨4/ ,. /± 3./際 e-k 0↑ `宦頰斃 20+50



