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双探头SPECT360°采集对改善女性心肌灌注质量的作用

Role of 360° acquisition in improving the quality of women s myocardial perfusion images with dual-head SPECT

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中文摘要:

目的 探讨360°采集对提高女性心肌血流灌注显像的作用。方法 对20名正常女性行常规L模式180°和H模式360°心肌灌注显像采集,通过目测结合极坐标靶心图的定量分析,获得心肌核素稀疏或缺损的节段数以及心肌各壁的平均计数百分比。结果 所有受检者中,常规模式断层图像可见14个节段的放射性减低,而H模式采集仅见6个稀疏节段。采用H模式,前壁、前侧壁和后间隔的稀疏可消失,而心尖、下壁、后壁和前间隔的稀疏仍然存在。L模式前壁、前侧壁和后间隔的平均计数百分比分别为(75.12±5.83)%、(79.81±7.08)%和(76.81±5.85)%,H模式分别为(80.39±3.50)%、(87.39±2.20)%和(80.88±4.45)%,两种模式差异有统计学意义(P分别<0.01、0.01和0.05)。结论 H模式360°采集可以有效地减少乳房组织衰减引起的伪影,而且图像质量优于L模式180°采集。

英文摘要:

Objective To explore the role of 360° acquisition in improving the quality of women s myocardial perfusion images. **Methods** Myocardial perfusion images of 20 normal women were acquired with 180° of normal L-mode and H-mode 360°, respectively. The number of sparse or defects segments and the percentages of average count of myocardial wall were obtained through the visual measurement and quantitative analysis of polar bull s-eye map. **Results** There were 14 sparse segments in normal L-mode and 6 sparse segments in H-mode among all subjects. The sparse segments disappeared in anterior, anterior and lateral and posterior septal walls under H-mode acquisition, but those still existed in apex, inferior and posterior, anterior septal wall. The average count percentage was (75.12±5.83)%, (79.81±7.08)% and (76.81±5.85)% in anterior, anterior and lateral, posterior septa walls of normal mode, respectively, while was (80.39±3.50)%, (87.39±2.20)% and (80.88±4.45)% respectively, in H-mode. There were significant differences (P<0.01, 0.01 and 0.05, respectively) between these two modes. **Conclusion** H-mode 360° acquisition could effectivly reduce artifacts on women s myocardial perfusion images caused by breast tissue attenuation, and the image quality may be superior to that of L-mode 180° acquisition.

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