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^{99m}Tc -奥曲肽SPECT/CT评价甲状腺相关性眼病活动期

Evaluation on activity of thyroid associated ophthalmopathy with ^{99m}Tc -octreotide orbital SPECT/CT

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英文关键词: [Graves ophthalmopathy](#) [Technetium](#) [Radionuclide imaging](#) [Octreotide](#)

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中文摘要:

目的 探讨 ^{99m}Tc -奥曲肽眼眶显像对甲状腺相关性眼病(TAO)炎症活动度的评价效果。**方法** 对41例TAO患者(82只眼)行 ^{99m}Tc -奥曲肽眼眶SPECT/CT融合显像,并以10例无眼部疾病的肺癌患者(20只眼)作为对照。以临床活动性评分(CAS)作为标准,计算出其眼眶 ^{99m}Tc -奥曲肽摄取比值(UR)。**结果** 按阅片结果将82只眼分为阳性组($n=44$)和阴性组($n=38$),阳性组平均CAS为 3.60 ± 0.99 ,阴性组平均CAS为 0.97 ± 1.19 ,阳性组平均CAS显著高于阴性组平均CAS($P < 0.05$),阅片结果与CAS的一致性为中等程度;TAO患者平均UR为 1.54 ± 0.50 。按CAS将82只眼分为活动期组($\text{CAS} \geq 3$)和非活动期组($\text{CAS} < 3$),活动期组($n=42$)平均UR为 1.80 ± 0.49 ,平均CAS为 3.81 ± 0.99 ,非活动期组($n=40$)平均UR为 1.23 ± 0.32 ,平均CAS为 0.74 ± 0.89 ,非活动期组显著低于活动期组($P < 0.05$);UR与CAS呈中度相关($r=0.61, P < 0.05$),ROC曲线下面积为0.803,区分活动期及非活动期TAO的UR阈值为1.38,其灵敏度为71.43%,特异度为80.00%。对照组平均UR为 1.03 ± 0.09 ,显著低于TAO组($P < 0.05$)。**结论** ^{99m}Tc -奥曲肽眼眶SPECT/CT显像可以对TAO是否处于炎症活动期进行评估,使放射性核素显像的解剖定位更加精确,提高诊断效能。

英文摘要:

Objective To investigate the clinical feasibility of orbital ^{99m}Tc -octreotide SPECT/CT in evaluating clinical activity of thyroid associated ophthalmopathy (TAO). **Methods** Forty-one patients (82 eyes) with TAO underwent orbital ^{99m}Tc -octreotide SPECT/CT. Ten patients (20 eyes) of lung cancer without eye involvement (control group) underwent the same examination. Taking the clinical activity score (CAS) as standard, the uptake ratio (UR) of ^{99m}Tc -octreotide was calculated. **Results** All 82 eyes were divided into positive group ($n=44$) and negative group ($n=38$) according to result of imaging. The mean CAS of positive group and negative group was 3.60 ± 0.99 and 0.97 ± 1.19 , respectively ($P < 0.05$). The conformance between result of reading and CAS was medium. The mean UR of TAO patients was 1.54 ± 0.50 . The 82 eyes were divided into active stage group ($\text{CAS} \geq 3, n=42$) and inactive stage group ($\text{CAS} < 3, n=40$) according to CAS. The mean UR and mean CAS of active stage group was 1.80 ± 0.49 and 3.81 ± 0.99 , while of inactive stage group was 1.23 ± 0.32 and 0.74 ± 0.89 , respectively (all $P < 0.05$). The correlation between UR and CAS was medium ($r=0.61, P < 0.05$). The area under the curve of ROC was 0.803, threshold value of UR distinguished active stage and inactive stage was 1.38, the sensitivity and the specificity was 71.43% and 80.00%, respectively. The mean UR of the control group was 1.03 ± 0.09 , lower than that of TAO group ($P < 0.05$). **Conclusion** UR may serve as a disease activity parameter. SPECT/CT can increase the diagnostic ability and anatomical location of ^{99m}Tc -octreotide in TAO.

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