



中国医学科学院学报 » 2010, Vol. 32 » Issue (3) :276-279 DOI: 10.3881/j.issn.1000-503X.2010.03.008

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## 三种烤瓷合金材料对磁共振成像的影响

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## Influences of Three Types of Dental Ceramic Alloys on Magnetic Resonance Imaging

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摘要

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**摘要** 目的 观察3种烤瓷合金材料对磁共振成像(MRI)的影响。方法 选择镍铬合金、钴铬合金和钛合金3种材料,采用计算机辅助设计制造设备加工成3个形状、大小完全相同的3-5三单位固定桥基底冠,分别固定于同一志愿者口腔内相同位置进行MRI头部扫描,同时将其固定于水模上扫描,比较伪影大小。结果 3种合金均可在MRI影像上产生明显伪影,MRI影像伪影影响大小程度依次为钴铬合金>镍铬合金>钛合金。结论 钛合金对MRI的影响明显小于镍铬合金和钴铬合金。

**关键词:** 镍铬合金 钴铬合金 钛合金 磁共振成像 伪影

**Abstract:** Objective To observe the influence of three types of dental ceramic alloys on magnetic resonance imaging (MRI). Methods Ni-Cr alloy,Co-Cr alloy,and Ti alloy were elaborated into three crowns with the same shape and size by computer aided design,computer aided manufacturing device. Afterwards we fixed the crown in the mouth of a volunteer at the same location separately. Then we scanned them with MRI. The extents of artifacts were compared. Results All these alloys caused MR artifacts. The extent of the artifact of Co-Cr alloy was larger than those of Ni-Cr alloy and Ti alloy under MRI. Conclusion Ti alloy has the smallest influence on MRI than Ni-Cr alloy and Co-Cr alloy.

**Keywords:** Ni-Cr alloy Co-Cr alloy Ti alloy magnetic resonance imaging artifact

Received 2010-01-09; published 2010-09-10

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引用本文:

王威,姜波,吴宣,孙建军.三种烤瓷合金材料对磁共振成像的影响[J] 中国医学科学院学报, 2010,V32(3): 276-279

WANG Wei,JIANG Bo,WU Xuan,SUN Jian-jun.Influences of Three Types of Dental Ceramic Alloys on Magnetic Resonance Imaging[J] CAMS, 2010,V32(3): 276-279

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