

动物试验,纳米羟磷灰石/聚酰胺-66,牙种植体,"/> 目的 探讨纳米羟磷灰石/聚酰胺-66 (nHA/PA-66) 复合牙种植体的动物试验结果及临床可行性。方法 将nHA/PA-66复合牙种植体随机植入5只成年杂种犬前牙区新鲜拔牙创内, 定期处死动物, 获取其上下颌骨标本, 进行局部X线和苏木精-伊红染色检查。结果 术中去除前牙23颗, 植入种植体13枚, 术后除1枚于8周时脱落外, 其余种植体良好存在。种植体与牙槽骨间间隙无明显增宽或变窄, 间隙内有结缔组织形成且随时间延长逐渐增多、排列方向发生改变。结论 nHA/PA-66种植体植入犬新鲜拔牙创后, 在种植体与牙槽骨间可形成随时间推移数量增多、排列改变的结缔组织。这些结缔组织到底是种植体周围的纤维包裹还是来源于拔牙创内的健康牙周膜, 有待进一步研究。

动物试验,纳米羟磷灰石/聚酰胺-66,牙种植体,"/> Objective

The aim of this study was to evaluate the clinical applicability of the dental implant made of nano-hydroxyapatite/polyamide-66 (nHA/PA-66) composite according to the animal experiment. Methods 13 implants, which were made of nHA/PA-66 composite, were randomly implanted into the fresh tooth extraction wound in the anterior teeth region of five adult mongrel dogs. The five dogs were sacrificed singly at 4, 8, 12, 16 and 20 weeks postoperatively. Histological and radiographical analyses were performed after the animals were sacrificed. Results In addition to one implant fallen off after 8 weeks, the rest of the 12 plants existed well. X ray examination, the gaps between the implant and alveolar bone were no significant broadening or narrowing. Hematoxylin-eosin staining histological examination, there were connective tissues formed in the gaps. We also found that its quantity gradually increased and its orientating changed over time. Conclusion The study confirmed that the connective tissues formed in the gaps between the implant and alveolar bone. We wonder that the connective tissues came from healthy periodontium of alveolar fossa or fiber wrapping surrounding the implants. The further study should be continued.

动物试验,纳米羟磷灰石/聚酰胺-66,牙种植体,"/> animal experiment, nano-hydroxyapatite/polyamide-66, dental implant,"/>

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## 纳米羟磷灰石/聚酰胺-66 牙种植体的动物试验

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Animal experimental study of nano-hydroxyapatite/polyamide-66 dental implantation

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