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微焦点计算机断层扫描在龋病研究中的应用

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Application of Micro-computed tomography in caries research

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摘要

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**摘要** 微焦点计算机断层扫描(Micro-CT)作为小型样品的三维成像工具,能够获取物体的内部与外部断面信息,并通过三维重建对其内部结构进行测量与分析。相对以往的研究手段, Micro-CT 应用于龋病研究领域具有无需破坏牙齿完整性、可监测体外人工龋病进程的动态变化等优点。本文就Micro-CT 在龋病研究中的应用情况作一综述。

**关键词:** 微焦点计算机断层扫描 龋病研究 应用

**Abstract:** As a tool of three-dimensional imaging for small samples, Micro-computed tomography (Micro-CT) can obtain the information of their external and internal cross-section. It can also survey and analyze their internal structure through three-dimensional reconstruction. When applied in caries research, in contrast to previous studies, Micro-CT has its own advantages such as non-breaking the integrity of the sample and monitoring the dynamic change of caries process. This article reviewed the application and promising future of Micro-CT in caries research.

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