

## ·教学研究·

## 虚拟现实技术在口腔实训实践教学中的应用

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【摘要】目的 探索虚拟现实技术应用于口腔实训教学中的实践效果。方法 选择上海交通大学口腔医学院 72 名学生, 随机分为实验组和对照组, 每组 36 名, 实验组采用将虚拟现实技术应用于口腔实训教学, 对照组采用传统教学方法, 课程结束后, 比较 2 组学生的操作技能成绩和理论成绩, 问卷调查评估实验组学生对虚拟现实技术应用于教学的评价。结果 实验组学生的操作技能和掌握知识要点显著优于对照组, 虚拟现实技术应用在口腔实训中, 学生学习能力明显提高。结论 虚拟现实技术运用于口腔实训教学中能加深学生的认知程度, 从而提升教学质量, 加快教育教学方式朝高度现代化发展。

【关键词】口腔实训 虚拟现实 教学质量

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## Application of virtual reality technology in practice teaching of oral training

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【Abstract】Purpose The aim of the study was to explore the practical effect of virtual reality technology applied in oral training. Methods 72 students from Shanghai Jiaotong University School of Stomatology were randomly divided into experimental group and control group, 36 in each group. The experimental group was trained by virtual reality technology, and the control group was trained by traditional teaching methods. After the course, the performance skill scores and theoretical scores of the two groups of students were compared, the assessment of the application of virtual reality technology in the experimental group students was evaluated by the questionnaire survey. Results The mastery of experimental skills in the experimental group were significantly better than in the control group. The virtual reality technology was applied in oral training, and the students' learning ability was significantly improved. Conclusions The use of virtual reality technology in oral training can deepen the cognitive level of students, thereby improving the quality of teaching and accelerating the development of education and teaching methods towards a high degree of modernization.

【Key words】Oral training Virtual reality Teaching quality

在如今高速发展的多媒体、计算机、互联网等信息技术的支持下, 信息的传递变得越来越来

便捷和容易, 虚拟现实(virtual reality, VR)是人类模拟世界的科学技术, 借助计算机生产高度仿真的环境, 人们可以借助必要的装备与其进行交互作用, 从而在视觉、听觉和触觉等层面, 产

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