

SIGT7 **UIC**
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ADEE
Promoting Dental Education in Europe

Virtual reality in dental education

42nd Annual Meeting
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Universitat Internacional de Catalunya
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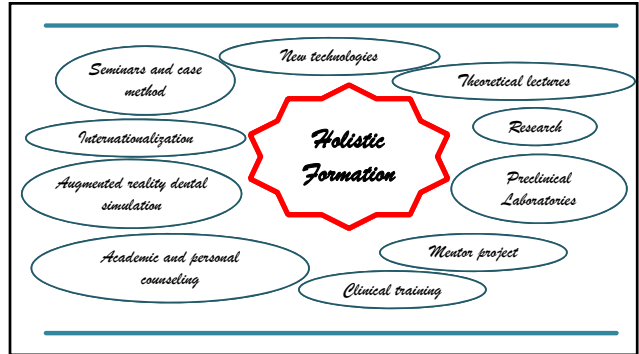


Current paradigm: Constant Change

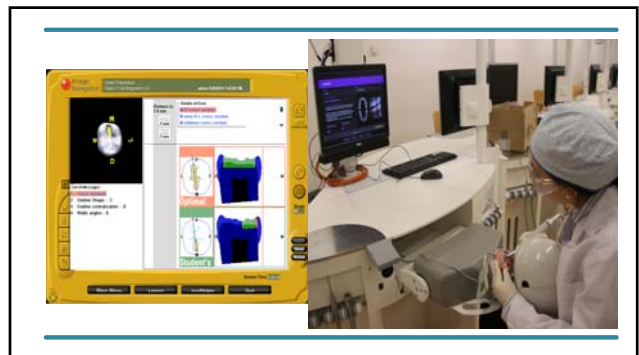
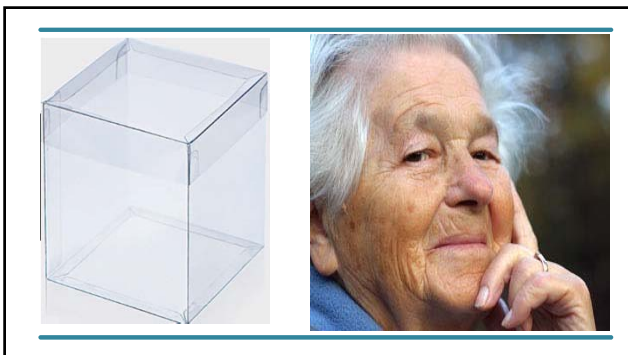
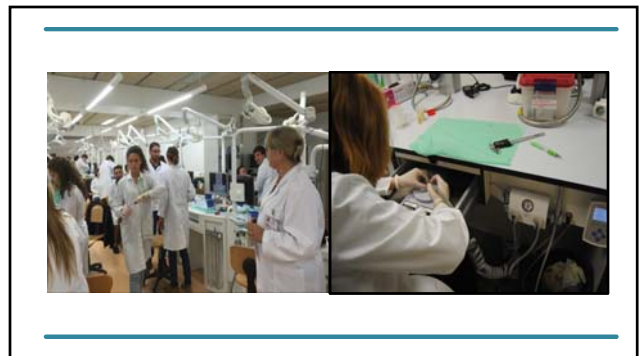
1985 **2016**

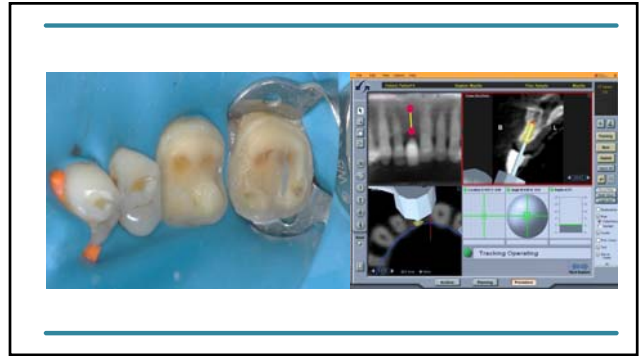
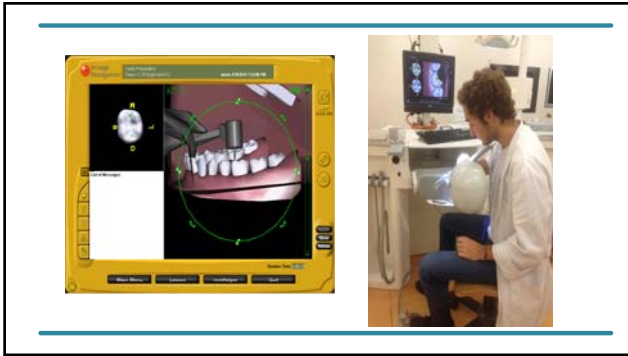


Transformational process



- *How do they keep up to date and adapt to scientific changes constantly*
- *How do these changes affect them as a person and way of life*
- *What will their relationship be with the environment and their peers (or community?)*
- *Raise concerns about ethical issues*
- *Education in human values*





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Effectiveness of an Augmented Reality Simulator in dental education.

Luis Giner, Maria Arregui.

August 25th 2016, Barcelona

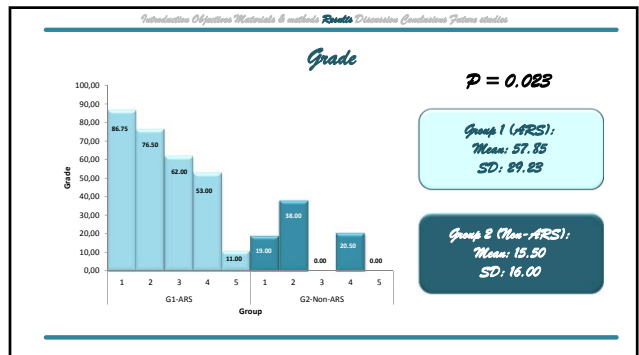
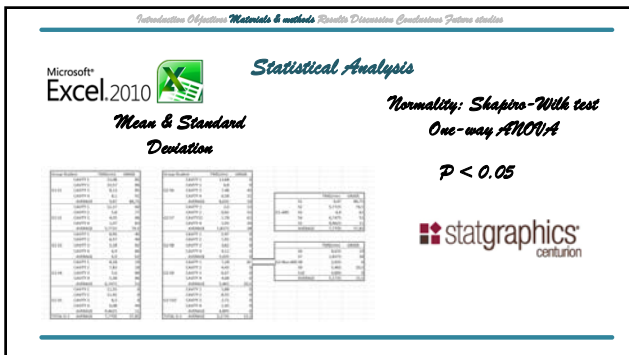
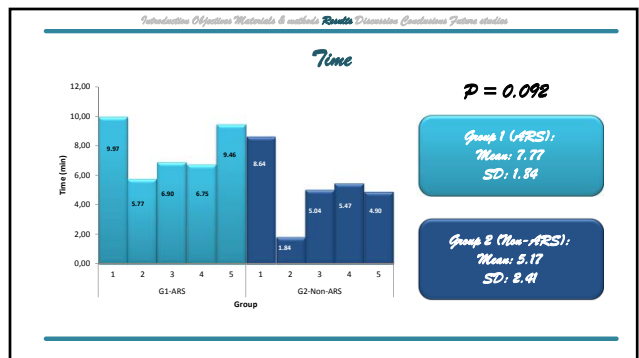


1. Introduction





4. Results



5. Discussion

Students assessed with DentSim tools obtained the best score in drilling Class I cavities; however the students took longer time to complete the task. Group E students who were guided only by dental instructor, obtained the lowest score.

Analysis on the general evolution of students showed that between the first cavity preparation and subsequent ones, most of the students in group 1 (ARS) obtained a better score and took less time. In contrast, a variation in the final grade of group 2 (Non-ARS) bore no relation to the number of cavities drilled.



*Best results in grades
increasing practices*

DentSim

*Zulu 2003
Buchanan 2004
Wernick 2006*

*Traditional environment
Polgott 2011*

*Other simulator systems
Al-Saad 2016*

7. Future studies

6. Conclusions

*Survey to know the opinion
of dental instructor and
students about DentSim and
new systems to train
psychomotor skills.*



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*Effectiveness of an Augmented Reality
Simulator in dental education.*

Lluís Giner; Berta Paulo; Borja Baldrich; Maria Arregui; Samuel Elhadad;
Montse Mercadé.

August 24th 2016, Barcelona