VIRTUAL REALITY DENTISTRY

SUGGESTED INTRO:
A REVOLUTION IS TAKING PLACE IN DENTAL EDUCATION WITH THE INTRODUCTION OF VIRTUAL REALITY SIMULATORS THAT LET STUDENTS PRACTICE IN CYBERSPACE. HERE'S A REPORT:

[VIDEO]
Open with shots of CWRU dental students operating “DentSim” dental simulator equipment.

Cut to dental student (female) with her instructor viewing her virtual reality procedure on the system computer.
Cut to CU of “DentSim” computer screen with virtual teeth on screen.
Cut to pullout shot of two students working at the CWRU “DentSim” work station.

[ON-CAMERA INTERVIEW]
ZACHARY MELLION, CWRU DENTAL STUDENT

Cut-away to CU shot of virtual drill unit.
Cut to screen CU shots of virtual mouth image from “DentSim” unit.
Cut back to on-screen interview.

[AUDIO] [VOICEOVER]
WELCOME TO THE FUTURE OF DENTAL EDUCATION.
A VIRTUAL REALITY WORLD WHERE STUDENTS TRAIN FOR DENTAL PROCEDURES. AT CASE WESTERN RESERVE UNIVERSITY, DENTAL STUDENTS ARE USING INTERACTIVE COMPUTER SIMULATORS TO MASTER THE DETAILS OF CAVITY AND CROWN PREPARATIONS, AS WELL AS OTHER CUSTOM PROCEDURES. THE SYSTEM THEY USE IS CALLED DENTSIM, AND FEATURES HUMAN-LIKE ROBOTIC HEADS AND INSTANT ON-SCREEN FEEDBACK OF THEIR WORK. ZACHARY MELLION, A DENTAL STUDENT AT CASE WESTERN RESERVE SAYS THE SYSTEM STREAMLINES HIS WORK AND WILL HELP HIM BE A BETTER DENTIST.

[INTERVIEW] “I can’t really stress enough the fact that this DentSim unit gives you an extremely incredible amount of feedback information. There’s no way when you’re cutting a regular prep on a Type-o-dont that you can look inside the tooth from underneath the tooth, anything like that. The DentSim gives you that opportunity. It will tell you the walls aren’t the right angle. I mean you can actually stand -more-
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[VIDEO]

Series of CU monitor shots from “DentSim”. Cut to CU of student’s hand, working on Robot head module with simulator teeth installed. Cut to one more shot of system monitor screen.

[ON-CAMERA INTERVIEW]

Michael Landers, CWRU Assistant Professor of Dentistry

[VOICEOVER]

MICHAEL LANDERS, ASSISTANT PROFESSOR OF DENTISTRY AT CASE WESTERN RESERVE, SAYS THE DENTSIM ADDS A NEW DIMENSION TO TEACHING DENTISTRY AND IS IMPRESSED WITH THE SYSTEM ACCURACY.

[INTERVIEW] “There are no other systems like DentSim to date. It’s basically the front-runner. It’s the only concept out there that uses a virtual reality concept in an actual patient-like setting. From a perspective of learning dental technique it takes a lot of the frustration away from that learning process. It also takes some of the pressure away from the faculty to have to try and evaluate a, you know, a tooth preparation in an area that’s smaller than the diameter of a dime and in hundredths of a millimeter. This unit is accurate within a third of a millimeter.” (TRT :38)

THE SCHOOL NOW HAS FOUR OPERATIONAL DENTSIM UNITS, ALLOWING STUDENTS TO PRACTICE PROCEDURES AT ANY TIME, DAY OR NIGHT, AND PLAY BACK THE RESULTS. THE SYSTEM IS SO SUCCESSFUL THAT THERE ARE PLANS TO ADD AN ENTIRE DENTSIM CLINIC. INSTRUCTORS AND STUDENTS HERE AGREE THAT VIRTUAL REALITY DENTISTRY IS THE WAVE OF THE FUTURE. THIS IS DAVE NAROSNY REPORTING FROM CASE WESTERN RESERVE UNIVERSITY, CLEVELAND.

-CWRU-

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