Let’s do it together: experience the future of “medicine in virtual reality”.

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Disclosure

Speaker name:
Prof. Enrico Maria Marone

I have the following potential conflicts of interest to report:

☐ Consulting
☐ Employment in industry
☐ Stockholder of a healthcare company
☐ Owner of a healthcare company
☑️ Other(s)

☐ I do not have any potential conflict of interest
Introduction

15\textsuperscript{th} December 2017

• First interactive lesson of Vascular Surgery

• The surgeon performing the operation explained each step of it during visualization

• A questionnaire testing the comprehension level was submitted before and after the procedure

Marone EM. Educational value of virtual reality for medical students. J Cardiovas Surg 2018
## Introduction

ANSWERS FROM MEDICAL STUDENTS AFTER VR LECTURE

<table>
<thead>
<tr>
<th>QUESTION</th>
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<th>B</th>
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<td>100 (98%)</td>
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<td>48 (47%)</td>
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<td>2</td>
<td>98 (96%)</td>
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<td>11</td>
<td>92 (90%)</td>
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Case report

- Female, 69 yo
- Aug. 2017: endovascular recanalization RT popliteal and AT arteries for CLI
- Jan. 2018: onset of intermittens claudication RT lower limb
- At duplex scan occlusion RT SFA
- Surgical strategy: endovascular recanalization with DCB (Cardionovum Legflow 6x150)
Video features

- Video was achieved with Orah 4i Live Spherical VR Camera.
- Featuring: 4 image sensors, 4 lenses, and 4 high-frequency range microphones.
- The Orah 4i recorded 4K video at 30 fps for an immersive spherical video experience.
- Editing and post on the 360° degrees files was done by the Adobe Premiere Pro CC 2017 platform and his VR skills.
Conclusions

• LEGFLOW 018 is a winning mix between support and low profile (5F)

• LEGFLOW can be handle easily as a plain balloon

• The stability of the SAFEPAX® coating generates a relaxed working environment with LEGFLOW®. We don't need to rush to reach the lesion since paclitaxel leakage is minimised
Conclusions

• VR grants the possibility to a wide number of students to follow surgical interventions without putting the success of the procedure at risk.

• It allows to respect patients’ safety and privacy.

• Wider use of this technology in surgical education should be encouraged.