Academy of Prosthodontics 2026 Annual Scientific Session
The Boca Raton Hotel, Boca Raton, FL | May 27-30, 2026

Program Speaker – Marco Degidi, DDS

Title

AI and Conometry: The New Frontier in Implant Surgery

Abstract

In this presentation, two recent innovations introduced by the author in the field of implant prosthetics will be discussed: the conometric concept and the use of AI in immediate loading.

1. Conometric coupling makes it possible to fabricate fixed prostheses (full-arch, bridges, or single crowns) without the use of screws or cement. These restorations can only be removed by the dentist when necessary and are retained solely by friction. Here are just a few of the advantages: no cement, no occlusal access holes for screws, no gap at the crown–abutment interface, and no bacterial infiltration. Conometry is, in every respect, a true revolution in implant prosthetics.

2. As is well known, the fundamental requirement for safely performing immediate loading is primary stability. Paradoxically, the systems currently available to measure it are either unreliable or fail to accurately reflect the actual stability of the implant being considered for immediate loading. For this reason, with the help of AI, an app called ILP (Immediate Loading Probability) was developed. Within a few seconds, immediately after implant placement, it provides the clinician with a percentage that visually expresses the implant's suitability for immediate loading.

Learning Objectives

- Understand the Conometric Concept
  Attendees will learn the biomechanical principles behind conometric coupling and how it enables screwless and cementless fixed prostheses, along with its clinical advantages and indications.
- Evaluate Immediate Loading Candidacy More Accurately
  Attendees will understand the limitations of current primary stability assessment methods and learn a more reliable, AI-supported approach to identifying implants suitable for immediate loading.
- Integrate AI Tools Into Clinical Decision-Making
  Attendees will learn how to use the ILP (Immediate Loading Probability) app to obtain real-time loading predictions and incorporate this data into safe and predictable immediate loading protocols.

Biography

Graduating in 1981 in Medicine & Surgery from the University of Bologna, he later specialized in 1992 at the Misch Implant Institute – USA. He is an Active Member of the Academy of Osseointegration, the International College of Oral Implantology, and the European Association for Osseointegration.

He has published 157 articles in peer-reviewed journals and has received numerous accolades, with an H-INDEX of 42.

Dr. Degidi is the inventor of the WeldOne technique and the Conometric technique.

He delivers lectures worldwide on topics such as immediate loading, primary stability, biomaterials, and aesthetic dentistry.

He practices privately in Bologna, focusing on surgery and implant prosthetics.