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### Dynamic guided surgery with Navident

Dynamic Guided Surgery is a surgical technique applied to implant placement in dentistry. It is a natural evolution of static guided surgery, where a stereo-lithographic template is used to guide implant placement. In fact, it shares with static guided prosthetic driven surgery approach, but it stands apart as such it does not need the use of any surgical guide. Navident 2.0, the newer version has streamlined the workflow reducing to three the former four stage workflow. Dynamic guided surgery is enabled thanks to Claro Nav's patent, a Canadian company, branded as Micron Tracker. This patent takes advantage of the stereoscopy principle that was well known starting from last century. Human beings have a 3D vision because have two eyes. They empower an angular view along with a linear one. On the same fashion, two cameras, independently from each other as our eyes, capture 3D patient's anatomy and match it on 3D CBCT dicom files. In this way, clinicians can navigate through images and not through templates. Dynamic guided surgery workflow unfolds in either four or three distinctive steps: First, Workflow (1): A radiologic stent manufacturing, called Navistent, (2) CBCT patient scanning, while wearing a Navistent, (3) Case planning using Navident software and (4) dynamic implant placement. Second, Workflow (1) Standard CBCT either only two cotton rolls separating the arches, (2) Case planning using Navident software, (3) Trace and Place: tracing the surface of minimum 3 teeth (max 6) and then dynamic implant placement. Dynamic guided surgery depending on the type of workflow in use, it sees either for the four step workflow, the use of a Jaw Tag and a Drill Tag that get read by the two stereoscopic cameras. The first refers to patient anatomy, the second to contrangle or straight hand piece position in the space. For the three-step workflow the use of a Head tracker/Jaw tracker and the Drill tag.

### Biography

Shaikh Anwar Hussain has completed his FDSRCS (England) in 1988 after his BDS and MDS from Bombay. He is the Director of Marigold Dental and Orthodontic Clinic, one of the leading Dental Implant and Orthodontic Center in Abu Dhabi. He was a Lecturer for Dental students at Ajman University and has been a Master Clinical Trainer for Navident since 2016 December and has conducted 4 certification courses. He is also lectured and did workshops at the CAI Academy Conference in Dubai in 2017.

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