R2 GATE **Turning imagination into reality**

MEGA'GEN

Complete Digital Solution for Guided Implant Workflow
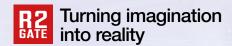
Akshay (Ash) Patel

Date: 22nd September 2023

Venue: ICE Postgraduate Dental Institute and Hospital

24 Furness Quay, Salford, England, M50 3XZL

Register here

Fees: £ 100

Thanks to a range of new developments into digital dentistry, we now have the ability to start planning and preparing for surgery without the need for endless patient visits. We can now create a digital reference of the patient's oral cavity in which we can carry out analysis and subsequent production of tools and apparatus to aid us during surgery. A guided surgery workflow allows us to create a surgical plan based on a 'top down' philosophy, where the implant position is not only placed in a biologically ideal position, but also in a position that will benefit the design and function of any prosthesis we place into/onto it.

Aims & Objectives:

- Understand how CBCT and Intra-Oral scans are used in guided surgery
- Learn about guided surgery as a concept
- Understand how R2Gate guided software is used to achieve your goals
- Develop an understanding of how to use the R2Gate system, confirmation software, etc
- Learn how to use a range of features in order to analyse and plan your cases

Akshay (Ash) Patel Specialist in CAD/CAM and R2GateTM Digital Workflow

Ash received his diploma in dental technology in 2010 from the **De Montfort University in Leicester, England**.

He then began is career at **Schoenitz Dental Lab in London**, where he was a metal worker, who had been tasked with learning and using **CAD/CAM equipment**, which was rarely seen in dental labs at the time. It was in this high quality, high output environment that Akshay realised his potential within the digital sector of dentistry.

Five years later Akshay then moved on to **Sai-Tech Dental Lab in London**, where he was the sole **CAD/CAM** technician, who helped transition the lab into a digital workflow environment. He was introduced to the Megagen team shortly after and began providing support and advice to Megagen's digital dentistry division.

Akshay has spent time in the Republic of Korea at the Megagen Headquarters, with their Digital Team to develop his knowledge on utilising a **digital workflow approach** towards fully guided surgery; and after three years at Sai-Tech, Akshay moved to **Megagen Implants UK & Ireland**. Together with the Megagen Implants UK & Ireland team, Akshay has established the **R2Gate Centre UK & Ireland**, with the sole purpose of providing **high quality dental appliances / components / knowledge** to dental professionals within the UK & Ireland.

Programme

09.30 - 10.00
Registration

10.00 - 11.30
Introduction to Guided Surgery
A historical perspective of Guided Implant Surgery, develop an understanding of CBCT / STL files and the accuracy of guided surgery. A good workflow is key.

11.30 - 12.00
Coffee

12.00 - 12.45
Digital Workflow Analysis
A step by step understanding of the different stages that represent the digital workflow for guided surgery.

12.45 - 13.00
Q&A

13.00 - 14.00
Lunch

14.00 - 16.00
Hands on
Guided placement of AnyRidge implants in a technique specific model, followed by the attachment of prefabricated prosthesis.
(please bring your MAC, PC or iPad with the R2Lite Software ready loaded.)
Develop an understanding of a cloud environment and account creation, followed by file management.
How to merge CBCT and STL files - manual versus automatic.
CBCT calibration, bone dentisty, (digital) analogs and how to convert a CBCT file to an STL.
How to use the Digital Eye for mandibular nerve tracing.
Implant planning and Digital Wax-up, STL export, printing and post processing.