Press Release

A Patient, 29/Male, resident of Agra, met with accident (was not wearing helmet) during riding motor vehicle in Rajasthan. He visited nearby private hospital, where he was managed for emergency treatment and got discharged soon. Then patient visited AIIMS hospital, New Delhi where he was managed for his jaw fracture and discharged.

Then after some days patient noticed double vision problem and depressed eye of his left eye as compared to right eye, for which he visited several hospital, but he was not satisfied by the treatment given to him by any hospital.

Then after several months patient visited **King George's Medical University, Oral and maxillofacial surgery department**, where he was examined under **Professor Divya Mehrotra**, and advised for CT face.

3D CT scan showed untreated orbital floor, medial wall and superior wall fracture and malunion .

Then under **Professor Divya Mehrotra**, treatment of orbital fracture was planned by orbital reconstruction with customized orbital plate. then using computer designing normal right eye socket was mirrored and superimposed on defective left side eye socket and defect was highlighted. Through computer based designing a virtual implant was designed for the left eye socket to correct the increased size. This implant was then printed in titanium metal in 3D.

reconstruction of defect was planned and done on computer.

then using this designing customized orbital implant his orbital walls were reconstructed and orbital volume regained.

Post surgery patient is very happy and satisfied by his facial and eye appearance and also fully satisfied by vision in his left eye as no more he complaints of double vision.

Hats off to computer technology for giving precise anatomical shape to the face even after malunion of fractured facial bones.

 Such result was impossible with arbitrary manual planning

TEAM INCLUDES:

Professor Divya Mehrotra (chief surgeon),

Dr. sanjay kumar, Dr pawan goel, Dr. U. Vignesh, Dr. Jagdish, Dr. Praveen, Dr. sneer

Dr Satish Dhasmana was the anaesthetist