CHUANBIN GUO

MD, PHD, ORAL-MAXILLOFACIAL SURGEON

POSITIONS

One of Directors of the ADT Foundation
Oct. 2019 - Current

Professor of Oral and Maxillofacial Surgery
Dean of School and Hospital of Stomatology
Peking University, Beijing, China

RELEVANT PUBLICATIONS

Chen Q, Cai ZG, Peng X, Wang Y, Guo CB. Potential new method of design for reconstruction of complicated mandibular defects: a virtual deformable mandibular model. Br J Oral Maxillofac Surg，2016 Feb，54(2):170-5.

Zhu JH, Deng J, Liu XJ, Wang J, Guo YX, Guo CB. Prospects of Robot-Assisted Mandibular Reconstruction with Fibula Flap: Comparison with a Computer-Assisted Navigation System and Freehand Technique. J Reconstr Microsurg. 2016 Nov，32(9):661-669.

Zhu JH, Wang J, Wang YG, Li M, Guo YX, Liu XJ, Guo CB. Performance of Robotic Assistance for Skull Base Biopsy: A Phantom Study. J Neurol Surg B 2017;78:385–392.

Liu LX, Feng ZE, Wang DC, Zhang JY, Guo CB. Prognostic factors in mandibular gingival squamous cell carcinoma: A 10-year retrospective study. Int J Oral Maxillofac Surg 2017: 46:137-143.

Wang L, Vuletic I, Deng DM, Crielaard W, Xie ZH, Zhou KD, Zhang JM, Sun HF, Ren Q, Guo C1 B. Bifidobacterium breve as a delivery vector of IL-24 gene therapy for head and neck squamous cell carcinoma in vivo. Gene Ther. 2017 Nov; 24(11):699-705. 2017 Aug 14.

Xu XL, Luo DM, Guo CB, Rong QG. A custom-made temporomandibular joint prosthesis for fabrication by selective laser melting: Finite element analysis. Med Eng Phys. 2017 Aug; 46:1-11. 2017 Jun 17.

Dong F, Taochuan SB, Guo CB, Lv PJ. Detection of cervical lymph node metastasis from oral cavity cancer using a non-radiating, noninvasive digital infrared thermal imaging system. SCIENTIFIC REPORTS. 2018 Jul 10;8(1):10624.

Yuan Y, Wang L, Li QX, Guo CB. Retrospective study of survival in human papillomavirus-negative oropharyngeal squamous cell carcinoma treated with primary surgery and associated prognostic factors. ONCOTARGETS AND THERAPY. 2018; 11: 2355–2362.

Wang L, Wang YF, Li QX, Tian KY, Xu L, Liu GR, Guo CB. Exopolysaccharide, Isolated From a Novel Strain Bifidobacterium breve lw01 Possess an Anticancer Effect on Head and Neck Cancer – Genetic and Biochemical Evidences. Front Microbiol. 2019; 10: 1044.

PROFILE

I am engaged in clinical and laboratory study on oral and maxillofacial surgery. In recent years, I focus my research on the application of digital techniques in head and neck surgery. From 2010 till now, my team have developed two robotic systems for reconstruction of mandibular defects and radio-active seeds implantation for skull base tumors. Currently we are using these two robots in animal study. My team is also one of the early teams in China applying navigation technique in cranio-maxillofacial surgery. So far, we have performed more than 1000 operations under navigation in our hospital, and published a navigation book in 2020. During the last ten years, we have made great efforts to organize many training courses to ensure colleagues have a good command of digital knowledge and techniques and apply in clinic to benefit patients. I would like to share our experiences and to collaborate with colleagues all over the world to promote the development of digital technology in head and neck surgery.

Being part of the ADT Foundation is a great opportunity to share knowledge and advance education in an exciting and rapidly evolving field.

CONTACT

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