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Functionalized Stent Based on Clinical Unmet Needs

Abstract: Stents only serves to mechanically widen the obstructive regions but has no therapeutic effects for adjacent endoluminal malignancies. Current therapeutic strategies are insufficient for suppressing stent-related complications in the non-vascular luminal organs. Here, various functionalized self-expandable metallic and/or biodegradable stents were developed for suppression of stent-related complications, localized therapy, and new applications of the stent. The presentation included the content of various developed interventional devices including stents and catheter systems being studied such as drug-eluting metallic or biodegradable stents, Eustachian tube intervention, obesity treating devices, radiofrequency ablation (RFA), irreversible electroporation (IRE), photodynamic therapy (PDT), nano-functionalized stents, and surgical stent. The purpose of this presentation was to introduce newly developed stents and a new application of the stent based on clinical unmet needs in Asan Medical Center.

Brief Biosketch

Jung-Hoon Park, Ph.D. received his master's and doctor of philosophy degrees at The University of Ulsan College of Medicine. After 4-year postdoctoral training at Asan Medical Center and Northwestern university, he worked in the Department of Biomedical Engineering, Asan Medical Center. Now, he runs Stent Translational Medicine Lab. with 10 researchers.

Stent Translational Medicine Lab has focused on developing various multifunctional and creative interventional devices including stents and catheters based on clinical unmet needs from Asan Medical Center. Now his Lab is actively conducting national and international translational research on drug eluting biodegradable stents, obesity treating devices, Eustachian tube interventions, Radiofrequency Ablation (RFA), Irreversible Electroporation (IRE), Photodynamic therapy (PDT), nano-functionalized stents, and so on. Interventional Radiologists, Gastroenterologists, Surgeons, Otorhinolaryngologists, and physicians in Asan Medical Center are involved in translational research in collaboration with stent companies, and national and international universities.