

Cerclage family technologies for catheter based treatment of atrioventricular valve disease (MR, TR), and intraseptal energy delivery (physiologic pacing, intraseptal RF ablation)

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Abstract

Cerclage family technologies consists of 4 technologies that are basically using proximal interventricular septal perforator vein so as to traverse or approach basal interventricular septum from coronary sinus. Although each technology is independent each other, the procedures are largely same. First, mitral loop cerclage (MLC) is a transcatheter mitral indirect annuloplasty. Second, Cerclage T-Block (CTB) is a transcatheter treatment of tricuspid regurgitation. Especially, Cerclage T-Block can also induce the same effect of MLC simultaneously because CTB is built on top of MLC platform. This unique feature can expect the treatment of double regurgitation (MR and TR) by only one procedure with one device. Third, 'cerclage pacing' is delivering pacing stimuli near by His conduction system to have physiologic pacing. Fourth, intraseptal RF energy can be delivered to induce septal reduction for Hypertrophic obstructive cardiomyopathy patients with the same approach. Several human trials have been done or impending.



Biography:

June Hong Kim has completed his MD (1992) from Medical School of Pusan National University (PNU) and completed cardiology fellowship in Asan Medical Center (2000~2002). And worked as senior research fellow in NHLBI, NIH (2005~2007). He is currently Professor of cardiology department of PNU.

Speaker Publications:

1. "Incidence of Cardiovascular Events and Safety Profile of Prasugrel in Korean Patients With Acute Coronary Syndrome"; *Circulation Journal* / 2020 / Vol 84(9)/ 1582-1586.

2. "Fractional Flow Reserve and Cardiac Events in Coronary Artery Disease: Data From a Prospective Registry"; *Circulation*/ 2017/Vol 135 Issue 23/ 2241–2251.
3. "Optimal strategy for side branch treatment in patients with left main coronary bifurcation lesions"; *Revista Espanola de Cardiologia*/2020
4. "Effect of Membrane Insertion for Tricuspid Regurgitation using Immersed-Boundary Lattice Boltzmann Method"; *Computer Methods and Programs in Biomedicine*/ 2020/Vol 191/105421.
5. "TCT-590 The Current Status of Intervention for Intermediate Coronary Stenosis in the Korean Percutaneous Coronary Intervention (K-PCI) Registry" *Journal of American College of Cardiology*/2019/Vol 74-Issue 13/B581.

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