AtriClip deployment during off pump coronary artery bypass grafting

Kaushalendra Rathore^{1,2}

Received: 28 September 2020 / Accepted: 28 October 2020 / Published online: 2 January 2021
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Abstract

Epicardial left atrial appendage occlusion using AtriClip during off pump coronary artery bypass grafting is a quick, reliable and reproducible technique which is shown in this video.

Keywords Angina · Atrial fibrillation · Stroke · Coronary artery bypass grafting

Various endocardial and epicardial methods of left atrial appendage (LAA) occlusion have been described in the clinical practice [1]. AtriClip (Atricure, USA) has the advantage of quick deployment, may not require cardiopulmonary bypass and can be performed during off pump coronary bypass surgery with the help of suction stabiliser under the transoesophageal echocardiography (TOE) guidance.

LAA is exposed by a deep pericardial stitch and packing pericardial sac with the sponge. Octopus stabiliser (Medtronic, USA) is applied on the lateral wall of the left ventricle between left anterior descending and left circumflex artery (LCx). Sizing of the LAA neck is done by AtriClip sizer and simultaneous correlation is done using TOE. Selected AtriClip device is passed through the appendage with the help of the assistant and complete occlusion of the neck is confirmed on TOE. During the deployment of the device, care should be taken to avoid compromising LCx artery lumen, and for that reason, anaesthetist keeps eye on the changes in the electrocardiogram (ECG) and ventricular functions on TOE.

Funding Nil.

Compliance with ethical standards

Informed consent Consent was taken and is in hospital records.

Statement of Human and animal rights NA.

Conflicts of interest Nil.

Reference

1. Squiers JJ, Edgerton JR. Surgical closure of the left atrial appendage: the past, the present, the future. *J Atr Fibrillation*. 2018;10:1642.

Publisher's note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Supplementary Information The online version contains supplementary material available at <https://doi.org/10.1007/s12055-020-01086-w>.

✉ Kaushalendra Rathore
kaushalendra.rathore@health.wa.gov.au

¹ Department of Cardiothoracic Surgery, Sir Charles Gairdner Hospital, Hospital Avenue, Nedlands, WA 6009, Australia

² Sir Charles Gairdner Hospital, Level 6, G block, Perth, WA 6009, Australia