**FICHE DE RESUME**

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| TITRE | **PERCUTANEOUS ATRIAL SEPTAL DEFECT CLOSURE WITH 4D TRANSOEOPHAGEAL GUIDANCE. ADVANTAGES OVER CONVENTIONAL STRATEGY. ABOUT ONE CASE AT FANN UNIVERSITARY HOSPITAL DAKAR SENEGAL.** |
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| RESUME | **INTRODUCTION** : Atrial Septal Defect (ASD) is not rare in adult population and 2D Transthoracic echocardiography (2D TTE) and two-dimensional transesophageal echocardiography (2D TEE) are usually used for diagnostic and therapeutic indications. When available Four-dimensional transesophageal echocardiography (4D-TEE) is more accurate for anatomic characterization of the defect and for echoguidance during the procedure. Four D TEE can also assess morphology of ASD and help device size selection.  We report a case of ASD closure in our Institution using 4D TEE for guidance during the procedure.  **CASE REPORT:** A 21 years old male was referred to our Department for ASD closure. Four 3D TEE confirm secundum ASD with two holes and 26 mm maximal diameter with good rims for percutaneous closure.  Under general anesthesia X ray and 3D TEE guidance the local interventional team decide to attempt percutaneous closure by right femoral vein route. During the procedure confirmation of the 26 mm ASD maximal diameter either by 4D TEE and equalizer balloon allowed us to deploy 28 mm Amplatz ASD device. After deployment 4D TEE confirm total closure of the defect with no interaction with the surrounding structures. The post-procedure stay was uneventful with stability of the device. and no residual shunt and the patient was discharged 48h post procedure.  **CONCLUSION** : In our usual practice we close ASD with X ray and 2D TEE guidance. 4D TEE help us to charactherize morpholgy and assess with more accuracy maximal size and rims and enabling us to choose adequate device. Adverse outcomes usually reported (residual shunt, new onset atrial fibrillation(AF) and mitral regurgitation) are responsible for morbidity and mortality following transcatheter ASD closure, As This technique can minimize their incidence per procedural 4D TEE should be promoted in transcatheter ASD closure.  **Key words :** Percutaneous ASD Closure – TEE (4D) |