



# ***3D TEE : Added Value “ Real Life Cases “***

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# ***Acknowledge 3D Echo Fellows***

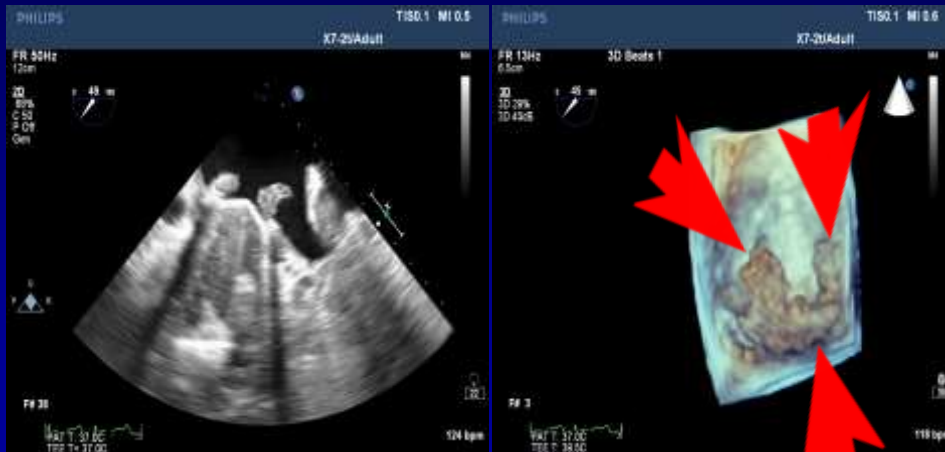
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# Infective Endocarditis

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## Two Masses Single Horse-shoe Mass



4

# OBSTRUCTED PROSTHETIC VALVES

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## CASE

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**CASE**

## 28 years female Tissue Prosthesis 2012

Progressive Dyspnoea

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Peak Diastolic Velocity 2.6 m/sec , MDG = 18 mmHg



**Effective Orifice Area = 0.7 cm<sup>2</sup>**



## CASE

**Male 60 Years  
Bioprosthesis 15 years ago**

Progressive Dyspnea

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Case  
Paravalvular Regurgitation.

**CASES**

**MITRAL VALVE PROLAPSE**



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## The prevalence and impact of deep clefts in the mitral leaflets in mitral valve prolapse

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### Aims

Deep clefts are a cause of early failure of mitral valve repair, but it is not known whether clefts represent normal morphology, or whether they occur more frequently in mitral valve prolapse (MVP).

### Methods and results

Deep clefts were defined as indentations extending  $\geq 50\%$  of the depth of the mitral valve leaflet. Using trans-oesophageal echo (TOE), 3D zoom images were acquired of the mitral valve in 176 patients: 76 patients with MVP, 43 patients with alternative causes of mitral regurgitation (MR), and 57 controls. Three-dimensional TOE results were corroborated with findings made at surgery for a subset of patients who subsequently underwent mitral valve surgery. An assessment of the proportion of the valve that was prolapsing was documented, and correlated to the number of clefts. The relationship of clefts to the region of prolapse or flail was recorded. Three-dimensional TOE was 93% sensitive and 92% specific for detecting clefts. Clefts were documented in 84% of patients with MVP, but significantly less frequently in patients with alternative MR (16%;  $P < 0.001$ ) and controls (12%;  $P < 0.001$ ). Clefts always appear in prolapsing regions or framing them, and the number of clefts increased in patients with more extensive prolapse.

### Conclusion

Clefts are frequently seen in MVP, but are uncommon in patients without this diagnosis. They occur in greater numbers as a larger proportion of the valve prolapses. They may play an important role in the development of MVP.

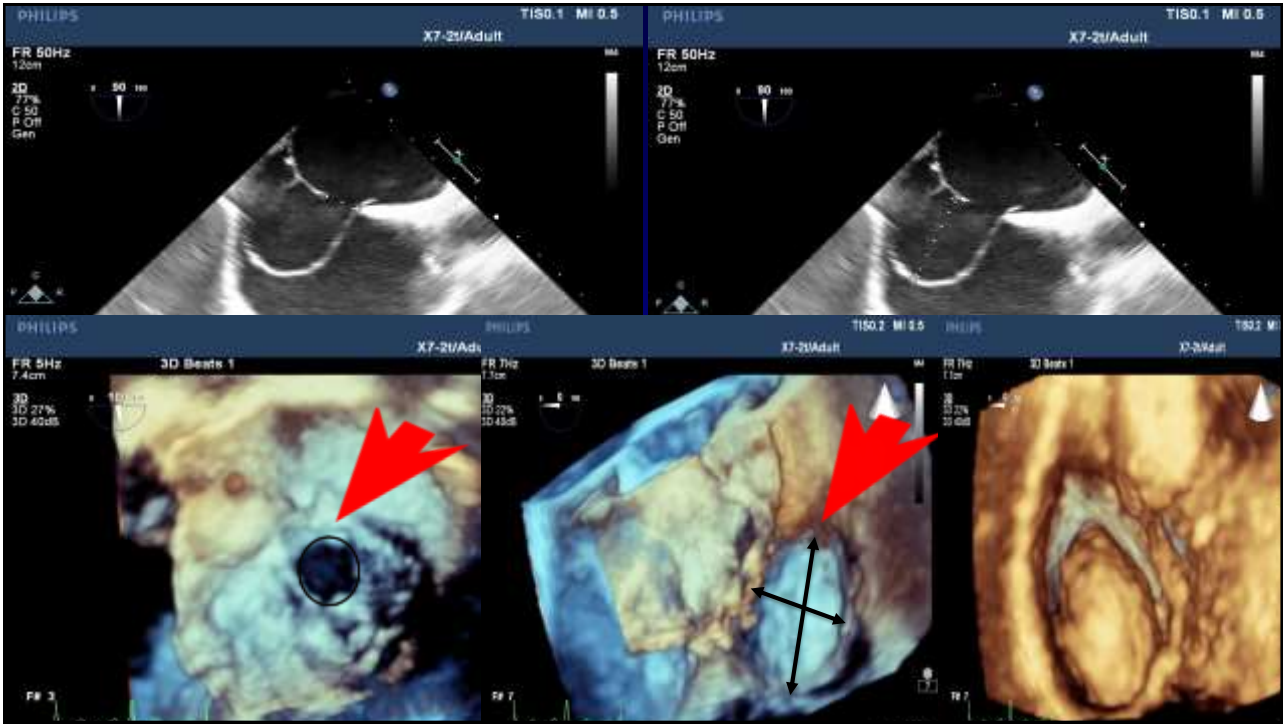
### Keywords

Mitral valve prolapse • 3D TOE • Cardiothoracic surgery

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## CASE

# Right Atrial Shadow



ASD



## ASD Shape and Size

### Left atrial Perspective



danke 謝謝 ngiyabonga  
 спасибо  
 teşekkür ederim  
 dank je  
 tapadh leat  
 bedankt  
 hvala maunuru  
 gracias  
 mochchakkeram  
 dziękuję  
 sagolun  
 sukriya kop khun krap  
 go raibh maith agat  
 arigato takk dakujem  
 obrigado  
 terima kasih  
 감사합니다  
 grazie  
 arigato takk dakujem  
 merci  
 мерси