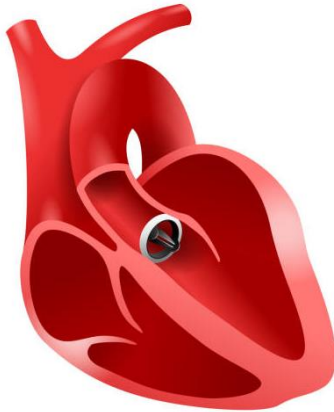




PROSTHETIC VALVES

SKELETON of Presentation Skills
STATION-3 (CARDIOVASCULAR)

CASE 1.

Metallic-AVR (Aortic Valve Replacement) with Mild-to-Moderate MS (Mitral Stenosis) due to RhVHD (Rheumatic-Valvular-Heart-Disease)



**CASE 1. Metallic-AVR (Aortic Valve Replacement) with
Mild-to-Moderate MS (Mitral Stenosis) due to
RhVHD (Rheumatic-Valvular-Heart-Disease)**

1. My clinical diagnosis of this young gentle-man is **AVR (Aortic Valve Replacement)** as evidenced by **Midline-Sternotomy-Scar** without any **Saphenous-Vein-Harvesting-Scar** or **Radial-Artery-Harvesting-Scar**.



Metallic-CC (Closing Click)

2. And this **AVR (Aortic Valve Replacement)** is **Metallic** as evidenced by **Metallic-CC (Closing Click)** that coincides with **Second-Heart-Sound (A₂)** (that is, CC is heard after the **Carotid-Pulse**).
3. And this **Metallic-AVR (Aortic Valve Replacement)** is **functioning very well** as evidenced by **absence of any Regurgitant Murmur**, that is, absence of any **Regurgitant Murmur** (that is, **Diastolic Murmur of AVR**).
4. And this **Metallic- AVR (Aortic Valve Replacement)** is not complicated by **Left-Heart-Failure** as evidenced by absence of **Lungs-Crackles** and also not complicated by **PHT (Pulmonary HyperTension)** as evidenced by absence of **Palpable-Loud-P₂** with **Left-Parasternal-**

SKELETON of Presentation Skills

STATION-3 (CARDIOVASCULAR)

Heave & **PSM** (Pan-Systolic-Murmur) of **TR (Tricuspid Regurgitation)** and also not complicated by **RHF (Right-Heart-Failure)** as evidenced by absence of **Raised-JVP**, **Tender-Hepatomegaly** & **Foot-Oedema**.



Foot-Oedema



No Lungs-Crackles

5. And this **Metallic-AVR (Aortic Valve Replacement)** is not complicated by **IE (Infective-Endocarditis)** as evidenced by absence of **peripheral** stigmata of **IE (Infective-Endocarditis)** and also absence of **Diastolic (Regurgitant) Murmur**. That does mean, this **Metallic-**

AVR (Aortic Valve Replacement) is not complicated by **PVE (Prosthetic-Valve-Endocarditis)** or **Valvular Dysfunction** in the form of **Valvular/Para-Valvular Leak**.

6. And this gentleman is also on **Warfarin** as evidenced by **Anti-Coagulation-Alert-Card** at the bed-side but without **Skin-Bruises**. And I would like to see the **Yellow-Book** to see the **trends of INR**, whether it is within the **recommended limit** or not.
7. And also this **Metallic-AVR (Aortic Valve Replacement)** is not complicated by **Mechanical Haemolysis** as evidenced by absence of **Anaemia & Jaundice**.
8. Along with that, I also found he has got **MS (Mitral Stenosis)** as evidenced by **Loud-First Heart-Sound (S₁) & LL-RR-MM (Low-Pitch-Localized-Rough-Rumbling-MDM (Mid-Diastolic-Murmur)**, best heard at the **Left 5th Intercostal Space** with **Left-Lateral-position** with **the Bell-of-the-Stethoscope** with **Breath-Holding-After Expiration** but without the features of **Severity** as evidenced by absence of **AF (Atrial Fibrillation)** as well as **PHT (Pulmonary HyperTension)**. So this can be the **Mild-to-Moderate MS (Mitral Stenosis)**.
9. And the underlying aetiology of this **Metallic-AVR (Aortic Valve Replacement)** along with **Mild-to-Moderate MS (Mitral Stenosis)** is **RhVHD (Rheumatic-Valvular-Heart-Disease)** as because of **young age & multi-Valvular** involvement.
10. So putting all them together, I think this young-man has got **Metallic-AVR (Aortic Valve Replacement)** along with **Mild-to-Moderate MS (Mitral Stenosis)** without **AF (Atrial Fibrillation)** due to **RhVHD (Rheumatic-Valvular-Heart-Disease)** & this **Metallic-AVR (Aortic Valve Replacement)** is **functioning** very well without **Left-Heart-Failure** without **PHT (Pulmonary HyperTension)** without **RHF (Right-**

Heart-Failure) without **IE (Infective-Endocarditis)**
without **Mechanical Haemolysis** & is on **Warfarin**.

11. I would like to confirm my diagnosis by requesting a
Color-Doppler-Echocardiography especially **TEE**
(Trans-Esophageal-Echocardiography).

CASE 2.

Metallic-AVR (Aortic Valve Replacement) due to Age-Related-Degenerative-Calcification with CAD (Coronary Artery Disease) with CABG (Coronary-Artery-Bypass-Grafting) with PPM (Permanent-Pace-Maker)



CASE 2. Metallic-AVR (Aortic Valve Replacement) due to Age-Related-Degenerative-Calcification with CAD (Coronary Artery Disease) with CABG (Coronary-Artery-Bypass-Grafting) with PPM (Permanent-Pace-Maker)

1. My clinical diagnosis of this elderly-man is **AVR (Aortic Valve Replacement)** as evidenced by **Midline-Sternotomy-Scar** with along with **CAD (Coronary Artery Disease)** as evidenced by **CABG (Coronary-Artery-Bypass-Grafting)** as evidenced by **Radial-Artery-Harvesting-Scar** along with **PPM (Permanent-Pace-Maker)** evidenced by a **small infra-clavicular Scar** & a **smaller box** underneath the skin.



Midline-Sternotomy-Scar with PPM (Permanent-Pace-Maker) small infra-clavicular Scar & a smaller box underneath the skin

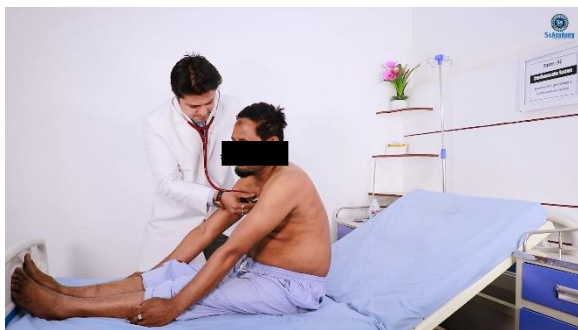
SKELETON of Presentation Skills

STATION-3 (CARDIOVASCULAR)



Radial-Artery-Harvesting-Scar

2. And this **AVR (Aortic Valve Replacement)** is **Metallic** as evidenced by **Metallic-CC (Closing Click)** that coincides with **Second-Heart-Sound (A₂)** (that is, CC is after the **Carotid-Pulse**).



Metallic-CC (Closing Click)

3. And this both **Metallic-AVR (Aortic Valve Replacement)** is **functioning very well** as evidenced by **absence of any Regurgitant Murmur**, that is, absence of any **Regurgitant Murmur** (that is, **Diastolic Murmur of AVR**).

SKELETON of Presentation Skills
STATION-3 (CARDIOVASCULAR)

4. And this **Metallic- AVR (Aortic Valve Replacement)** is not complicated by **Left-Heart-Failure** as evidenced by absence of **Lungs-Crackles** and also not complicated by **PHT (Pulmonary HyperTension)** as evidenced by absence of **Palpable-Loud-P₂** with **Left-Parasternal-Heave** & **PSM (Pan-Systolic-Murmur)** of **TR (Tricuspid Regurgitation)** and also not complicated by **RHF (Right-Heart-Failure)** as evidenced by absence of **Raised-JVP, Tender-Hepatomegaly** & **Foot-Oedema**.



No Raised-JVP



Foot Oedema

SKELETON of Presentation Skills

STATION-3 (CARDIOVASCULAR)

5. And this **Metallic-AVR (Aortic Valve Replacement)** is not complicated by **IE (Infective-Endocarditis)** as evidenced by absence of **peripheral** stigmata of IE (Infective-Endocarditis) and also absence of **Diastolic (Regurgitant) Murmur**. That does mean, this **Metallic-AVR (Aortic Valve Replacement)** is not complicated by **PVE (Prosthetic-Valve-Endocarditis)** or **Valvular Dysfunction** in the form of **Valvular/Para-Valvular Leak**.
6. And this gentleman is also on **Warfarin** as evidenced by **Skin-Bruises** on the left arm as well as **Anti-Coagulation-Alert-Card** at the bed-side. And I would like to see the **Yellow-Book** to see the **trends of INR**, whether it is within the **recommended limit** or not.



Anti-Coagulation-Alert-Card



Skin-Bruises

7. And also this **Metallic-AVR (Aortic Valve Replacement)** is not complicated by **Mechanical Haemolysis** as evidenced by absence of **Anaemia & Jaundice**.



No Anaemia



No Jaundice.

8. And the underlying aetiology of this **Metallic-AVR (Aortic Valve Replacement)** is **Age-Related-Degenerative-Calcification** as because of he is **above** the age of **65 years** & because of presence of **CAD (Coronary Artery Disease)**.
9. So putting all them together, I think this elderly-man has got **Metallic-AVR (Aortic Valve Replacement)** due to **Age-Related-Degenerative-Calcification** along with **CAD (Coronary Artery Disease)** underwent **CABG (Coronary-Artery-Bypass-Grafting)** & this **Metallic-AVR (Aortic Valve Replacement)** is **functioning** very well without **Left-Heart-Failure** without **PHT (Pulmonary HyperTension)** without **RHF (Right-Heart-Failure)** without **IE (Infective-Endocarditis)** without **Mechanical Haemolysis** & is on **Warfarin**.
10. I would like to confirm my diagnosis by requesting a **Color-Doppler-Echocardiography** especially **TEE (Trans-Esophageal-Echocardiography)**.

CASE 3.

Metallic- AVR (Aortic Valve Replacement) with MICS due to BAV (Bicuspid-Aortic-Valve)



**CASE 3. Metallic- AVR (Aortic Valve Replacement) with
MICS due to BAV (Bicuspid-Aortic-Valve)**

1. My clinical diagnosis of this middle-aged pleasant lady is **AVR (Aortic Valve Replacement)** as evidenced by **MICS (Minimally-Invasive-Cardiac-Surgery) Scar**, that is **Right-Transverse-Thoracotomy-Scar** without any **Saphenous-Vein-Harvesting-Scar** or **Radial-Artery-Harvesting-Scar**.



Right-Transverse-Thoracotomy-Scar

2. And this **AVR (Aortic Valve Replacement)** is **Metallic** as evidenced by **Metallic-CC (Closing Click)** that coincides with **Second-Heart-Sound (A₂)**.



Metallic-CC (Closing Click)

3. And this both **Metallic- AVR (Aortic Valve Replacement)** is **functioning very well** as evidenced by **absence of any Regurgitant Murmur**, that is, absence of any **Regurgitant Murmur** (that is, **Diastolic Murmur of AVR**).
4. And this **Metallic- AVR (Aortic Valve Replacement)** is not complicated by **Left-Heart-Failure** as evidenced by absence of **Lungs-Crackles** and also not complicated by **PHT (Pulmonary HyperTension)** and also not complicated by **RHF (Right-Heart-Failure)**.
5. And this **Metallic-AVR (Aortic Valve Replacement)** is not complicated by **IE (Infective-Endocarditis)** as evidenced by absence of **peripheral** stigmata of IE (Infective-Endocarditis) and also absence of **Regurgitant Murmur**.
6. And she is on **Warfarin** as evidenced by **Skin-Bruises** as well as **Anti-Coagulation-Alert-Card** at the bed-side. And I would like to see the **Yellow-Book** to see the **trends of INR**, whether it is within the **recommended limit** or not.

SKELETON of Presentation Skills

STATION-3 (CARDIOVASCULAR)



Skin-Bruises



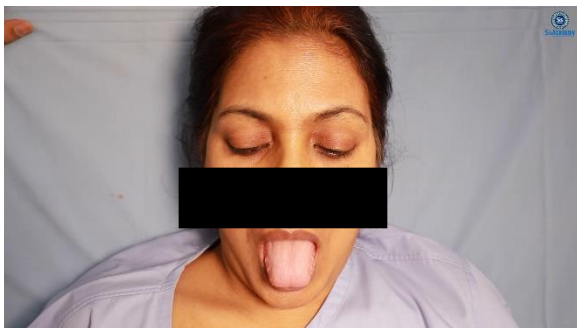
Anti-Coagulation-Alert-Card

7. And also this **Metallic- AVR (Aortic Valve Replacement)** is not complicated by **Mechanical Haemolysis** as evidenced by absence of **Anaemia & Jaundice**.

SKELETON of Presentation Skills
STATION-3 (CARDIOVASCULAR)



No Jaundice



No Anaemia

8. And the underlying aetiology of this **Metallic- AVR (Aortic Valve Replacement)** is **BAV (Bicuspid-Aortic-Valve)** as because of she is under the age of 65 years.
9. So putting all them together, I think this lady has got **Metallic- AVR (Aortic Valve Replacement)** due to **BAV (Bicuspid-Aortic-Valve)** is **functioning** very well without **Heart Failure** without **IE (Infective-Endocarditis)** without **Mechanical Haemolysis** & is on **Warfarin**.

SKELETON of Presentation Skills
STATION-3 (CARDIOVASCULAR)

10. I would like to confirm my diagnosis by requesting a **Color-Doppler-Echocardiography** especially **TEE (Trans-Esophageal-Echocardiography)**.

CASE 4.

**Bio-prosthetic-AVR (Aortic Valve Replacement) due to
Age-Related-Degenerative-Calcification with CAD
(Coronary Artery Disease) with CABG (Coronary-Artery-
Bypass-Grafting)**

