

HEART ANATOMY POSTERIOR VIEW

HEART ANATOMY POSTERIOR VIEW OFFERS A UNIQUE AND ESSENTIAL PERSPECTIVE ON THE STRUCTURAL ORGANIZATION OF THE HEART. UNDERSTANDING THE POSTERIOR ASPECT REVEALS CRITICAL COMPONENTS SUCH AS THE LEFT ATRIUM, PULMONARY VEINS, AND THE CORONARY SINUS, WHICH ARE NOT AS PROMINENTLY VISIBLE FROM THE ANTERIOR VIEW. THIS VIEW IS VITAL FOR MEDICAL PROFESSIONALS AND STUDENTS TO APPRECIATE THE HEART'S SPATIAL RELATIONSHIPS WITHIN THE THORACIC CAVITY, AS WELL AS ITS VASCULAR CONNECTIONS. THE POSTERIOR SURFACE ALSO PLAYS A CRUCIAL ROLE IN THE HEART'S ELECTRICAL CONDUCTION SYSTEM AND VENOUS DRAINAGE. BY EXAMINING THE HEART ANATOMY POSTERIOR VIEW, ONE GAINS INSIGHTS INTO THE ARRANGEMENT OF CARDIAC CHAMBERS, ASSOCIATED VESSELS, AND THE INTRICATE NETWORK OF CORONARY CIRCULATION. THIS ARTICLE WILL PROVIDE A DETAILED EXPLORATION OF THESE FEATURES, EMPHASIZING THEIR ANATOMICAL AND CLINICAL SIGNIFICANCE. THE FOLLOWING TABLE OF CONTENTS OUTLINES THE KEY AREAS COVERED IN THIS COMPREHENSIVE REVIEW.

- OVERVIEW OF THE HEART ANATOMY POSTERIOR VIEW
- CHAMBERS VISIBLE FROM THE POSTERIOR ASPECT
- MAJOR VESSELS OBSERVED POSTERIORLY
- CORONARY CIRCULATION ON THE POSTERIOR SURFACE
- CLINICAL RELEVANCE OF THE POSTERIOR HEART ANATOMY

OVERVIEW OF THE HEART ANATOMY POSTERIOR VIEW

THE POSTERIOR VIEW OF THE HEART REVEALS THE STRUCTURES LOCATED ON THE HEART'S BACK SIDE, WHICH FACE THE VERTEBRAL COLUMN AND ESOPHAGUS. UNLIKE THE ANTERIOR VIEW, WHICH HIGHLIGHTS THE RIGHT VENTRICLE AND THE PULMONARY TRUNK, THE POSTERIOR HEART ANATOMY EMPHASIZES THE LEFT ATRIUM, PULMONARY VEINS, AND CERTAIN VENOUS STRUCTURES. THIS ORIENTATION ALLOWS FOR THE STUDY OF THE HEART'S INFLOW VESSELS AND VENOUS RETURN PATHWAYS THAT ARE CRITICAL FOR CARDIAC FUNCTION. THE POSTERIOR SURFACE IS OFTEN REFERRED TO AS THE BASE OF THE HEART AND COMPRISES MOSTLY THE LEFT ATRIUM AND PORTIONS OF THE RIGHT ATRIUM. UNDERSTANDING THIS VIEW IS INDISPENSABLE FOR INTERPRETING CERTAIN IMAGING MODALITIES SUCH AS ECHOCARDIOGRAPHY AND CARDIAC MRI.

ANATOMICAL POSITION AND ORIENTATION

IN THE ANATOMICAL POSITION, THE HEART LIES SLIGHTLY OBLIQUELY WITH ITS BASE DIRECTED POSTERIORLY AND SUPERIORLY. THE POSTERIOR SURFACE FACES THE VERTEBRAL COLUMN AND IS ADJACENT TO THE ESOPHAGUS AND DESCENDING THORACIC AORTA. THIS ORIENTATION IS KEY FOR UNDERSTANDING THE HEART'S RELATIONSHIP WITH SURROUNDING MEDIASTINAL STRUCTURES AND ITS VASCULAR CONNECTIONS. THE POSTERIOR VIEW EXCLUDES THE RIGHT VENTRICLE, WHICH DOMINATES THE ANTERIOR SURFACE, INSTEAD SHOWCASING THE LEFT ATRIUM AND ITS CONNECTIONS.

STRUCTURAL COMPONENTS

THE POSTERIOR SURFACE IS PRIMARILY COMPOSED OF THE LEFT ATRIUM, INTERATRIAL SEPTUM, AND THE PROXIMAL PARTS OF THE GREAT VEINS ENTERING THE HEART. THIS INCLUDES THE FOUR PULMONARY VEINS AND THE SUPERIOR AND INFERIOR VENA CAVA AT THEIR CARDIAC ENTRANCES. ADDITIONALLY, THE CORONARY SINUS LIES IN THE POSTERIOR ATRIOVENTRICULAR GROOVE, COLLECTING VENOUS BLOOD FROM THE MYOCARDIUM. THESE COMPONENTS COLLECTIVELY DEFINE THE HEART ANATOMY POSTERIOR VIEW AND CONTRIBUTE TO ITS PHYSIOLOGICAL FUNCTION.

CHAMBERS VISIBLE FROM THE POSTERIOR ASPECT

THE HEART'S CHAMBERS VISIBLE FROM THE POSTERIOR PERSPECTIVE DIFFER SIGNIFICANTLY FROM THOSE SEEN ANTERIORLY. THE LEFT ATRIUM FORMS THE MAJOR PART OF THE POSTERIOR SURFACE, WHILE THE RIGHT ATRIUM OCCUPIES A SMALLER PORTION.

LEFT ATRIUM

THE LEFT ATRIUM IS THE LARGEST CHAMBER SEEN IN THE HEART ANATOMY POSTERIOR VIEW. IT ACTS AS A RECEIVING CHAMBER FOR OXYGENATED BLOOD RETURNING FROM THE LUNGS VIA THE PULMONARY VEINS. THE SMOOTH POSTERIOR WALL OF THE LEFT ATRIUM LIES ADJACENT TO THE ESOPHAGUS, MAKING IT AN IMPORTANT LANDMARK IN TRANSESOPHAGEAL ECHOCARDIOGRAPHY. THE LEFT ATRIUM'S POSTERIOR ASPECT IS CHARACTERIZED BY THE OPENINGS OF THE FOUR PULMONARY VEINS, TWO FROM EACH LUNG, WHICH ENTER ITS POSTEROLATERAL WALLS.

RIGHT ATRIUM

THE RIGHT ATRIUM IS PARTIALLY VISIBLE FROM THE POSTERIOR VIEW, PRIMARILY ITS VENOUS INFLOW PORTION. THE SUPERIOR VENA CAVA AND INFERIOR VENA CAVA OPEN INTO THE RIGHT ATRIUM AT ITS SUPERIOR AND INFERIOR BORDERS, RESPECTIVELY. THE POSTERIOR SURFACE SHOWS THE ORIFICE OF THE CORONARY SINUS, WHICH DRAINS VENOUS BLOOD FROM THE MYOCARDIUM INTO THE RIGHT ATRIUM. THE POSTERIOR RIGHT ATRIUM WALL IS LESS PROMINENT BUT CONTRIBUTES TO THE HEART'S BASE STRUCTURE.

VENTRICULAR SURFACES NOT PROMINENT

UNLIKE THE ATRIA, THE VENTRICLES ARE NOT PROMINENTLY VISIBLE IN THE POSTERIOR VIEW. THE LEFT VENTRICLE LIES ANTERIOR TO THE LEFT ATRIUM AND IS LARGELY CONCEALED, WHILE THE RIGHT VENTRICLE IS SITUATED MOSTLY ANTERIORLY AND ON THE HEART'S STERNOCOSTAL SURFACE. THIS ANATOMICAL ARRANGEMENT UNDERSCORES THE IMPORTANCE OF THE POSTERIOR VIEW IN ASSESSING ATRIAL AND VENOUS STRUCTURES RATHER THAN VENTRICULAR MORPHOLOGY.

MAJOR VESSELS OBSERVED POSTERIORLY

THE HEART ANATOMY POSTERIOR VIEW PROMINENTLY FEATURES SEVERAL MAJOR VESSELS CRUCIAL FOR CARDIAC INFLOW AND OUTFLOW. THESE VESSELS ARE INTEGRAL TO THE HEART'S FUNCTION AND ARE KEY LANDMARKS IN BOTH ANATOMICAL STUDY AND CLINICAL PRACTICE.

PULMONARY VEINS

THE PULMONARY VEINS ARE PERHAPS THE MOST DISTINCTIVE VESSELS VISIBLE FROM THE POSTERIOR HEART SURFACE. FOUR PULMONARY VEINS ENTER THE LEFT ATRIUM: THE RIGHT SUPERIOR, RIGHT INFERIOR, LEFT SUPERIOR, AND LEFT INFERIOR PULMONARY VEINS. THESE VEINS TRANSPORT OXYGENATED BLOOD FROM THE LUNGS TO THE HEART, A VITAL STEP IN SYSTEMIC CIRCULATION. THEIR ORIFICES ARE CLEARLY SEEN ON THE POSTERIOR ASPECT OF THE LEFT ATRIUM, ARRANGED SYMMETRICALLY IN PAIRS.

SUPERIOR AND INFERIOR VENA CAVA

THE SUPERIOR VENA CAVA (SVC) AND INFERIOR VENA CAVA (IVC) ARE MAJOR SYSTEMIC VEINS THAT DRAIN DEOXYGENATED BLOOD INTO THE RIGHT ATRIUM. FROM THE POSTERIOR PERSPECTIVE, THE SVC IS VISIBLE ENTERING THE RIGHT ATRIUM FROM ABOVE, WHILE THE IVC ENTERS INFERIORLY. THESE VESSELS FORM IMPORTANT LANDMARKS FOR VENOUS RETURN AND ARE ESSENTIAL IN UNDERSTANDING HEART ANATOMY POSTERIOR VIEW.

CORONARY SINUS

THE CORONARY SINUS IS A LARGE VENOUS CHANNEL SITUATED IN THE POSTERIOR ATRIOVENTRICULAR GROOVE. IT COLLECTS VENOUS BLOOD FROM THE CARDIAC VEINS AND EMPTIES INTO THE RIGHT ATRIUM. THE CORONARY SINUS IS A PROMINENT STRUCTURE ON THE POSTERIOR SURFACE AND IS SIGNIFICANT IN BOTH ANATOMICAL STUDY AND CLINICAL INTERVENTIONS SUCH AS CARDIAC RESYNCHRONIZATION THERAPY.

CORONARY CIRCULATION ON THE POSTERIOR SURFACE

THE CORONARY CIRCULATION OBSERVED IN THE HEART ANATOMY POSTERIOR VIEW INCLUDES KEY ARTERIES AND VEINS THAT SUPPLY AND DRAIN THE MYOCARDIUM. THIS VASCULAR NETWORK ENSURES ADEQUATE OXYGEN DELIVERY AND WASTE REMOVAL FOR OPTIMAL CARDIAC FUNCTION.

POSTERIOR DESCENDING ARTERY

THE POSTERIOR DESCENDING ARTERY (PDA), ALSO KNOWN AS THE POSTERIOR INTERVENTRICULAR ARTERY, RUNS ALONG THE POSTERIOR INTERVENTRICULAR SULCUS. IT SUPPLIES BLOOD TO THE POSTERIOR THIRD OF THE INTERVENTRICULAR SEPTUM AND ADJACENT VENTRICULAR WALLS. THE PDA TYPICALLY ARISES FROM THE RIGHT CORONARY ARTERY IN RIGHT-DOMINANT CIRCULATION OR THE CIRCUMFLEX ARTERY IN LEFT-DOMINANT HEARTS. ITS COURSE IS CLEARLY VISIBLE IN THE POSTERIOR VIEW OF THE HEART.

CORONARY VEINS

SEVERAL CORONARY VEINS ARE VISIBLE ON THE POSTERIOR HEART SURFACE. THESE INCLUDE THE MIDDLE CARDIAC VEIN RUNNING PARALLEL TO THE PDA, THE SMALL CARDIAC VEIN ALONG THE RIGHT MARGIN, AND THE GREAT CARDIAC VEIN WHICH DRAINS INTO THE CORONARY SINUS. THIS VENOUS NETWORK FACILITATES THE EFFICIENT RETURN OF DEOXYGENATED BLOOD FROM THE MYOCARDIUM.

LEFT CIRCUMFLEX ARTERY

THE LEFT CIRCUMFLEX ARTERY (LCX) COURSES ALONG THE POSTERIOR ATRIOVENTRICULAR GROOVE. IT SUPPLIES THE LATERAL AND POSTERIOR WALLS OF THE LEFT VENTRICLE AND THE LEFT ATRIUM. THE LCX'S PRESENCE ON THE POSTERIOR SURFACE IS A CRITICAL FEATURE IN THE HEART ANATOMY POSTERIOR VIEW, PARTICULARLY RELEVANT IN CORONARY ARTERY DISEASE EVALUATION.

CLINICAL RELEVANCE OF THE POSTERIOR HEART ANATOMY

THE POSTERIOR VIEW OF THE HEART HOLDS SIGNIFICANT CLINICAL IMPORTANCE, PARTICULARLY IN DIAGNOSTIC IMAGING, SURGICAL PROCEDURES, AND UNDERSTANDING PATHOPHYSIOLOGICAL CONDITIONS.

DIAGNOSTIC IMAGING

IMAGING TECHNIQUES SUCH AS TRANSESOPHAGEAL ECHOCARDIOGRAPHY (TEE) RELY HEAVILY ON UNDERSTANDING THE HEART ANATOMY POSTERIOR VIEW. SINCE THE ESOPHAGUS LIES DIRECTLY BEHIND THE LEFT ATRIUM, TEE PROVIDES DETAILED IMAGES OF POSTERIOR CARDIAC STRUCTURES, INCLUDING THE LEFT ATRIUM AND PULMONARY VEINS. THIS IS CRITICAL FOR DIAGNOSING CONDITIONS LIKE ATRIAL FIBRILLATION, LEFT ATRIAL APPENDAGE THROMBUS, AND PULMONARY VEIN STENOSIS.

CARDIAC SURGERY AND INTERVENTIONS

SURGICAL APPROACHES TO THE HEART, INCLUDING MITRAL VALVE REPAIR AND CORONARY ARTERY BYPASS GRAFTING, REQUIRE PRECISE KNOWLEDGE OF THE POSTERIOR HEART ANATOMY. THE LOCATION OF THE PULMONARY VEINS AND CORONARY SINUS ARE VITAL LANDMARKS DURING THESE PROCEDURES. ADDITIONALLY, CATHETER-BASED INTERVENTIONS OFTEN TARGET STRUCTURES ACCESSIBLE FROM THE POSTERIOR ASPECT, EMPHASIZING THE NEED FOR DETAILED ANATOMICAL UNDERSTANDING.

PATHOLOGICAL CONSIDERATIONS

SEVERAL CARDIAC PATHOLOGIES MANIFEST CHANGES OBSERVABLE FROM THE POSTERIOR VIEW. ENLARGEMENT OF THE LEFT ATRIUM, OFTEN DUE TO MITRAL VALVE DISEASE, CAN BE DETECTED BY IMAGING OF THE POSTERIOR HEART SURFACE. SIMILARLY, ABNORMALITIES IN THE PULMONARY VEINS OR CORONARY SINUS MAY CONTRIBUTE TO ARRHYTHMOGENIC CONDITIONS OR IMPAIRED VENOUS DRAINAGE. KNOWLEDGE OF THE POSTERIOR ANATOMY THUS AIDS IN ACCURATE DIAGNOSIS AND TREATMENT PLANNING.

SUMMARY OF KEY CLINICAL POINTS

- TRANSESOPHAGEAL ECHOCARDIOGRAPHY VISUALIZES POSTERIOR HEART STRUCTURES FOR DIAGNOSTIC CLARITY.
- SURGICAL LANDMARKS ON THE POSTERIOR SURFACE GUIDE MITRAL VALVE AND CORONARY PROCEDURES.
- POSTERIOR CHAMBER ENLARGEMENT AND VESSEL ABNORMALITIES HAVE DIAGNOSTIC IMPLICATIONS.
- CORONARY CIRCULATION FROM THE POSTERIOR VIEW PROVIDES INSIGHT INTO MYOCARDIAL PERFUSION.

FREQUENTLY ASKED QUESTIONS

WHAT STRUCTURES ARE PRIMARILY VISIBLE IN THE POSTERIOR VIEW OF THE HEART?

IN THE POSTERIOR VIEW OF THE HEART, THE LEFT ATRIUM, PULMONARY VEINS, AND PARTS OF THE RIGHT AND LEFT VENTRICLES ARE PRIMARILY VISIBLE. THE CORONARY SINUS AND THE POSTERIOR INTERVENTRICULAR SULCUS CAN ALSO BE SEEN.

HOW DOES THE POSTERIOR VIEW OF THE HEART DIFFER FROM THE ANTERIOR VIEW?

THE POSTERIOR VIEW FOCUSES ON THE BACK SURFACE OF THE HEART, HIGHLIGHTING THE LEFT ATRIUM AND PULMONARY VEINS, WHILE THE ANTERIOR VIEW SHOWS THE RIGHT VENTRICLE AND PARTS OF THE RIGHT ATRIUM AND LEFT VENTRICLE. MAJOR VESSELS LIKE THE AORTA AND PULMONARY TRUNK ARE MORE PROMINENT ANTERIORLY.

WHICH VEINS ARE VISIBLE ENTERING THE LEFT ATRIUM IN THE POSTERIOR VIEW?

THE FOUR PULMONARY VEINS—TWO FROM EACH LUNG—ARE VISIBLE ENTERING THE LEFT ATRIUM IN THE POSTERIOR VIEW OF THE HEART.

WHAT IS THE SIGNIFICANCE OF THE CORONARY SINUS IN THE POSTERIOR HEART VIEW?

THE CORONARY SINUS IS A LARGE VENOUS STRUCTURE VISIBLE IN THE POSTERIOR HEART VIEW THAT COLLECTS DEOXYGENATED BLOOD FROM THE MYOCARDIUM AND DRAINS IT INTO THE RIGHT ATRIUM.

WHERE IS THE POSTERIOR INTERVENTRICULAR SULCUS LOCATED IN THE POSTERIOR VIEW OF THE HEART?

THE POSTERIOR INTERVENTRICULAR SULCUS IS A GROOVE LOCATED ON THE DIAPHRAGMATIC SURFACE OF THE HEART, RUNNING BETWEEN THE RIGHT AND LEFT VENTRICLES AND MARKING THE POSITION OF THE POSTERIOR INTERVENTRICULAR ARTERY.

WHICH CHAMBERS OF THE HEART ARE MOST PROMINENT IN THE POSTERIOR VIEW?

THE LEFT ATRIUM IS THE MOST PROMINENT CHAMBER IN THE POSTERIOR VIEW, FOLLOWED BY PORTIONS OF THE RIGHT ATRIUM AND BOTH VENTRICLES' POSTERIOR SURFACES.

HOW CAN THE POSTERIOR VIEW HELP IN UNDERSTANDING HEART FUNCTION AND PATHOLOGY?

THE POSTERIOR VIEW ALLOWS VISUALIZATION OF THE LEFT ATRIUM AND PULMONARY VEINS, WHICH ARE IMPORTANT IN CONDITIONS LIKE ATRIAL FIBRILLATION AND PULMONARY HYPERTENSION. IT ALSO HELPS IN ASSESSING THE CORONARY SINUS AND POSTERIOR INTERVENTRICULAR ARTERY FOR VASCULAR PATHOLOGIES.

WHAT ROLE DO THE PULMONARY VEINS PLAY AS SEEN IN THE POSTERIOR VIEW OF THE HEART?

IN THE POSTERIOR VIEW, THE PULMONARY VEINS ARE SEEN ENTERING THE LEFT ATRIUM, CARRYING OXYGENATED BLOOD FROM THE LUNGS TO THE HEART, WHICH IS CRITICAL FOR SYSTEMIC CIRCULATION.

ADDITIONAL RESOURCES

1. *HEART ANATOMY: A POSTERIOR PERSPECTIVE*

THIS BOOK PROVIDES AN IN-DEPTH EXPLORATION OF THE HEART'S ANATOMICAL FEATURES AS SEEN FROM THE POSTERIOR VIEW. IT INCLUDES DETAILED ILLUSTRATIONS AND DESCRIPTIONS OF THE HEART CHAMBERS, VALVES, AND ASSOCIATED VESSELS. IDEAL FOR MEDICAL STUDENTS AND PROFESSIONALS SEEKING A COMPREHENSIVE UNDERSTANDING OF CARDIAC ANATOMY.

2. *POSTERIOR CARDIAC STRUCTURES: AN ANATOMICAL GUIDE*

FOCUSING EXCLUSIVELY ON THE POSTERIOR ASPECT OF THE HEART, THIS GUIDE OFFERS PRECISE ANATOMICAL DETAILS AND CLINICAL CORRELATIONS. IT INCLUDES HIGH-RESOLUTION IMAGES AND 3D MODELS TO HELP READERS VISUALIZE THE HEART'S POSTERIOR SURFACE. THE TEXT ALSO DISCUSSES THE RELATIONSHIP BETWEEN THE HEART AND SURROUNDING THORACIC STRUCTURES.

3. *THE BACK OF THE HEART: ANATOMY AND FUNCTION*

THIS TEXT EXAMINES THE ANATOMICAL COMPONENTS VISIBLE FROM THE HEART'S POSTERIOR SIDE AND THEIR PHYSIOLOGICAL ROLES. IT COVERS THE LEFT ATRIUM, PULMONARY VEINS, AND THE CORONARY SINUS IN DETAIL. THE BOOK IS DESIGNED FOR STUDENTS OF ANATOMY, CARDIOLOGY, AND RELATED HEALTH SCIENCES.

4. *CARDIAC ANATOMY IN 3D: POSTERIOR VIEW EDITION*

UTILIZING CUTTING-EDGE 3D IMAGING TECHNOLOGY, THIS BOOK OFFERS INTERACTIVE VISUALIZATIONS OF THE HEART'S POSTERIOR ANATOMY. READERS CAN EXPLORE DIFFERENT LAYERS AND STRUCTURES IN DETAIL, ENHANCING THEIR SPATIAL UNDERSTANDING. IT IS AN EXCELLENT RESOURCE FOR EDUCATORS AND STUDENTS ALIKE.

5. *CLINICAL ANATOMY OF THE POSTERIOR HEART*

THIS BOOK BRIDGES DETAILED ANATOMICAL KNOWLEDGE WITH CLINICAL PRACTICE, FOCUSING ON CONDITIONS AFFECTING THE POSTERIOR HEART STRUCTURES. IT PROVIDES CASE STUDIES, IMAGING INTERPRETATIONS, AND SURGICAL CONSIDERATIONS. PERFECT FOR CARDIOLOGISTS, SURGEONS, AND ADVANCED ANATOMY LEARNERS.

6. *ATLAS OF POSTERIOR CARDIAC ANATOMY*

A RICHLY ILLUSTRATED ATLAS FEATURING HIGH-QUALITY IMAGES AND DIAGRAMS OF THE HEART'S POSTERIOR VIEW. EACH SECTION IS ACCOMPANIED BY CONCISE EXPLANATIONS HIGHLIGHTING KEY ANATOMICAL LANDMARKS. THE ATLAS SERVES AS A

QUICK REFERENCE FOR MEDICAL PROFESSIONALS AND ANATOMY ENTHUSIASTS.

7. UNDERSTANDING THE POSTERIOR HEART WALL

THIS PUBLICATION DELVES INTO THE MICROSCOPIC AND MACROSCOPIC ANATOMY OF THE POSTERIOR HEART WALL. IT EXPLAINS THE MUSCULAR AND CONNECTIVE TISSUE ARCHITECTURE AND THEIR FUNCTIONAL SIGNIFICANCE. THE BOOK ALSO TOUCHES ON PATHOLOGICAL CHANGES AFFECTING THE POSTERIOR HEART.

8. HEART CHAMBERS AND VESSELS FROM THE POSTERIOR VIEW

FOCUSING ON THE SPATIAL RELATIONSHIPS OF THE HEART CHAMBERS AND VESSELS AS SEEN FROM BEHIND, THIS BOOK AIDS IN UNDERSTANDING CARDIAC FLOW DYNAMICS. IT INCLUDES COMPARATIVE ANATOMY SECTIONS AND CLINICAL IMPLICATIONS OF POSTERIOR HEART ANATOMY. SUITABLE FOR STUDENTS IN MEDICINE AND ALLIED HEALTH FIELDS.

9. ADVANCED CARDIAC ANATOMY: POSTERIOR APPROACH

DESIGNED FOR ADVANCED LEARNERS, THIS BOOK COVERS COMPLEX ASPECTS OF POSTERIOR HEART ANATOMY, INCLUDING INNERVATION AND VASCULAR SUPPLY. IT INTEGRATES ANATOMICAL DETAILS WITH DIAGNOSTIC IMAGING AND SURGICAL TECHNIQUES. THE TEXT IS ESSENTIAL FOR CARDIOLOGY FELLOWS AND CARDIOVASCULAR SURGEONS.

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