

CARDIAC MEDICAL TERMINOLOGY

THE HEART OF COMMUNICATION: UNDERSTANDING CARDIAC MEDICAL TERMINOLOGY

CARDIAC MEDICAL TERMINOLOGY SERVES AS THE INDISPENSABLE LANGUAGE OF CARDIOVASCULAR HEALTHCARE, ENABLING PRECISE COMMUNICATION AMONG PHYSICIANS, NURSES, TECHNICIANS, AND PATIENTS. MASTERING THESE TERMS IS NOT MERELY AN ACADEMIC EXERCISE; IT IS FUNDAMENTAL TO ACCURATE DIAGNOSIS, EFFECTIVE TREATMENT, AND ULTIMATELY, OPTIMAL PATIENT OUTCOMES. THIS COMPREHENSIVE GUIDE DELVES INTO THE INTRICATE WORLD OF CARDIAC TERMINOLOGY, EXPLORING ITS FOUNDATIONAL ELEMENTS, COMMON PREFIXES AND SUFFIXES, KEY ANATOMICAL STRUCTURES, PHYSIOLOGICAL PROCESSES, AND DIAGNOSTIC PROCEDURES. BY DEMYSTIFYING THESE ESSENTIAL BUILDING BLOCKS, WE AIM TO EQUIP HEALTHCARE PROFESSIONALS AND INTERESTED INDIVIDUALS WITH THE KNOWLEDGE NEEDED TO NAVIGATE THE COMPLEXITIES OF CARDIOVASCULAR MEDICINE WITH CONFIDENCE AND CLARITY.

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FOUNDATIONAL ELEMENTS OF CARDIAC MEDICAL TERMINOLOGY

AT ITS CORE, CARDIAC MEDICAL TERMINOLOGY IS BUILT UPON GREEK AND LATIN ROOTS, REFLECTING THE HISTORICAL DEVELOPMENT OF MEDICINE. UNDERSTANDING THESE ROOTS PROVIDES A POWERFUL FRAMEWORK FOR DECIPHERING NEW AND COMPLEX TERMS. FOR INSTANCE, TERMS RELATED TO BLOOD VESSELS OFTEN DERIVE FROM LATIN "VAS" (VESSEL), WHILE TERMS DESCRIBING RHYTHM OR FLOW FREQUENTLY INCORPORATE GREEK "RHYTHMOS" (RHYTHM) OR "KARDIA" (HEART). THIS LINGUISTIC FOUNDATION IS CRUCIAL FOR ANYONE SEEKING TO GRASP THE NUANCES OF CARDIOVASCULAR SCIENCE.

THE FIELD IS HIGHLY SPECIALIZED, WITH TERMS DESIGNED TO CONVEY VERY SPECIFIC INFORMATION. THIS PRECISION IS VITAL WHEN DESCRIBING A PATIENT'S CONDITION, A PARTICULAR ANATOMICAL FEATURE, OR A TREATMENT PLAN. WITHOUT THIS SHARED LANGUAGE, MISINTERPRETATIONS COULD HAVE SERIOUS CONSEQUENCES. THEREFORE, A SYSTEMATIC APPROACH TO LEARNING THESE TERMS, STARTING WITH THEIR CONSTITUENT PARTS, IS HIGHLY RECOMMENDED.

PREFIXES AND SUFFIXES IN CARDIAC TERMS

PREFIXES AND SUFFIXES ARE ESSENTIAL BUILDING BLOCKS THAT MODIFY THE MEANING OF ROOT WORDS IN CARDIAC MEDICAL TERMINOLOGY. THEY PROVIDE CRITICAL CONTEXT REGARDING LOCATION, SIZE, COLOR, QUANTITY, OR CONDITION. RECOGNIZING COMMON PREFIXES AND SUFFIXES CAN SIGNIFICANTLY ACCELERATE THE LEARNING PROCESS AND IMPROVE COMPREHENSION.

COMMON CARDIAC PREFIXES

SEVERAL PREFIXES ARE FREQUENTLY ENCOUNTERED IN CARDIAC CONTEXTS. THESE SMALL WORD FRAGMENTS AT THE BEGINNING OF A TERM CAN DRAMATICALLY ALTER ITS MEANING. FOR EXAMPLE, "BRADY-" SIGNIFIES SLOW, AS IN BRADYCARDIA (SLOW HEART RATE), WHILE "TACHY-" INDICATES FAST, AS IN TACHYCARDIA (FAST HEART RATE). "HYPER-" DENOTES EXCESS OR HIGH, OFTEN USED WITH BLOOD PRESSURE (HYPERTENSION), AND "HYPO-" SIGNIFIES DEFICIENCY OR LOW, AS IN HYPOTENSION

(LOW BLOOD PRESSURE).

- **ATHERO-**: RELATING TO FATTY PLAQUE (E.G., ATHEROSCLEROSIS).
- **CARDIO-**: RELATING TO THE HEART (E.G., CARDIOLOGIST).
- **ENDO-**: WITHIN OR INNER (E.G., ENDOCARDIUM).
- **HEMO-**: RELATING TO BLOOD (E.G., HEMOGLOBIN).
- **MYO-**: RELATING TO MUSCLE (E.G., MYOCARDIUM).
- **PERI-**: AROUND OR SURROUNDING (E.G., PERICARDIUM).
- **SUPRA-**: ABOVE OR OVER (E.G., SUPRAVENTRICULAR).
- **VASO-**: RELATING TO A BLOOD VESSEL (E.G., VASODILATION).

COMMON CARDIAC SUFFIXES

SUFFIXES, APPEARING AT THE END OF A WORD, OFTEN INDICATE A CONDITION, DISEASE, OR PROCEDURE. UNDERSTANDING THESE ENDINGS IS EQUALLY IMPORTANT. FOR INSTANCE, "-ITIS" DENOTES INFLAMMATION, AS IN CARDITIS (INFLAMMATION OF THE HEART). "-PATHY" SIGNIFIES DISEASE, SUCH AS CARDIOMYOPATHY (DISEASE OF THE HEART MUSCLE). "-RRHAPHY" REFERS TO SUTURING, SEEN IN PROCEDURES LIKE ANGIORRHAPHY (SUTURING OF A BLOOD VESSEL), AND "-ECTOMY" MEANS SURGICAL REMOVAL, AS IN TONSILLECTOMY, THOUGH LESS COMMON DIRECTLY IN CARDIAC ANATOMY, IT'S A GENERAL SURGICAL SUFFIX.

- **-AL**: PERTAINING TO (E.G., ATRIAL).
- **-AR**: PERTAINING TO (E.G., VASCULAR).
- **-CLYSIS**: IRRIGATION OR WASHING (E.G., PERICARDIOCENTESIS, INVOLVING REMOVAL OF FLUID).
- **-EMIA**: BLOOD CONDITION (E.G., ISCHEMIA, REDUCED BLOOD FLOW).
- **-GRAM**: A RECORD OR IMAGE (E.G., ELECTROCARDIOGRAM).
- **-OMA**: TUMOR OR SWELLING (E.G., MYXOMA, A BENIGN HEART TUMOR).
- **-OSIS**: ABNORMAL CONDITION OR DISEASE (E.G., STENOSIS, NARROWING).
- **-PLASTY**: SURGICAL REPAIR OR RECONSTRUCTION (E.G., ANGIOPLASTY).

ANATOMY OF THE CARDIOVASCULAR SYSTEM

A FIRM GRASP OF THE CARDIOVASCULAR SYSTEM'S ANATOMY IS FUNDAMENTAL TO UNDERSTANDING CARDIAC MEDICAL TERMINOLOGY. THIS SYSTEM IS A COMPLEX NETWORK RESPONSIBLE FOR TRANSPORTING OXYGEN, NUTRIENTS, HORMONES, AND WASTE PRODUCTS THROUGHOUT THE BODY. KEY COMPONENTS INCLUDE THE HEART, BLOOD VESSELS, AND BLOOD ITSELF.

THE HEART: CHAMBERS AND LAYERS

THE HEART, A MUSCULAR ORGAN, IS DIVIDED INTO FOUR CHAMBERS: THE RIGHT ATRIUM, THE RIGHT VENTRICLE, THE LEFT ATRIUM, AND THE LEFT VENTRICLE. THE ATRIA RECEIVE BLOOD RETURNING TO THE HEART, WHILE THE VENTRICLES PUMP BLOOD OUT. THE HEART WALL COMPRISES THREE LAYERS: THE EPICARDIUM (OUTERMOST), THE MYOCARDIUM (MIDDLE, MUSCULAR LAYER), AND THE ENDOCARDIUM (INNERMOST LINING).

MAJOR BLOOD VESSELS

BLOOD VESSELS ARE CATEGORIZED INTO ARTERIES, VEINS, AND CAPILLARIES. ARTERIES CARRY OXYGENATED BLOOD AWAY FROM THE HEART (EXCEPT FOR THE PULMONARY ARTERY), WHILE VEINS CARRY DEOXYGENATED BLOOD BACK TO THE HEART (EXCEPT FOR THE PULMONARY VEINS). CAPILLARIES ARE TINY VESSELS WHERE THE EXCHANGE OF OXYGEN AND CARBON DIOXIDE OCCURS BETWEEN BLOOD AND TISSUES. THE AORTA IS THE LARGEST ARTERY, AND THE VENA CAVAE ARE THE LARGEST VEINS.

VALVES OF THE HEART

FOUR VALVES ENSURE UNIDIRECTIONAL BLOOD FLOW THROUGH THE HEART: THE TRICUSPID VALVE (BETWEEN THE RIGHT ATRIUM AND RIGHT VENTRICLE), THE PULMONARY VALVE (BETWEEN THE RIGHT VENTRICLE AND THE PULMONARY ARTERY), THE MITRAL VALVE (ALSO KNOWN AS THE BICUSPID VALVE, BETWEEN THE LEFT ATRIUM AND LEFT VENTRICLE), AND THE AORTIC VALVE (BETWEEN THE LEFT VENTRICLE AND THE AORTA). TERMINOLOGY RELATED TO VALVE FUNCTION, SUCH AS REGURGITATION (LEAKAGE) OR STENOSIS (NARROWING), IS CRITICAL.

PHYSIOLOGICAL PROCESSES OF THE HEART

UNDERSTANDING THE PHYSIOLOGICAL PROCESSES OF THE HEART IS ESSENTIAL FOR INTERPRETING CARDIAC MEDICAL TERMS RELATED TO ITS FUNCTION. THESE PROCESSES INCLUDE THE CARDIAC CYCLE, ELECTRICAL CONDUCTION, AND BLOOD CIRCULATION.

THE CARDIAC CYCLE

THE CARDIAC CYCLE REFERS TO THE SEQUENCE OF EVENTS THAT OCCUR DURING ONE COMPLETE HEARTBEAT. IT INVOLVES TWO MAIN PHASES: DIASTOLE (RELAXATION AND FILLING OF THE HEART CHAMBERS) AND SYSTOLE (CONTRACTION AND PUMPING OF BLOOD). TERMS LIKE "ATRIAL SYSTOLE," "VENTRICULAR SYSTOLE," AND "DIASTOLIC PRESSURE" DESCRIBE SPECIFIC EVENTS WITHIN THIS CYCLE.

ELECTRICAL CONDUCTION SYSTEM

THE HEART'S RHYTHM IS CONTROLLED BY A SPECIALIZED ELECTRICAL CONDUCTION SYSTEM. THIS SYSTEM BEGINS WITH THE SINUS (SA) NODE, OFTEN CALLED THE HEART'S NATURAL PACEMAKER, WHICH GENERATES ELECTRICAL IMPULSES. THESE IMPULSES TRAVEL THROUGH THE ATRIA, THEN TO THE ATRIOVENTRICULAR (AV) NODE, DOWN THE BUNDLE OF HIS, THE BUNDLE BRANCHES, AND PURKINJE FIBERS, CAUSING THE VENTRICLES TO CONTRACT. ABNORMALITIES IN THIS SYSTEM LEAD TO ARRHYTHMIAS.

CIRCULATION OF BLOOD

CARDIAC TERMINOLOGY DESCRIBES TWO MAIN CIRCULATORY PATHS: PULMONARY CIRCULATION AND SYSTEMIC CIRCULATION. PULMONARY CIRCULATION INVOLVES THE FLOW OF BLOOD FROM THE RIGHT SIDE OF THE HEART TO THE LUNGS FOR OXYGENATION AND BACK TO THE LEFT SIDE OF THE HEART. SYSTEMIC CIRCULATION IS THE WIDER CIRCULATION OF OXYGENATED BLOOD FROM THE LEFT SIDE OF THE HEART TO THE REST OF THE BODY AND THE RETURN OF DEOXYGENATED BLOOD TO THE RIGHT SIDE.

COMMON CARDIAC CONDITIONS AND DISEASES

THE ABILITY TO UNDERSTAND AND UTILIZE CARDIAC MEDICAL TERMINOLOGY IS PARAMOUNT WHEN DISCUSSING COMMON HEART CONDITIONS. THESE TERMS ARE USED TO DESCRIBE A WIDE RANGE OF AILMENTS AFFECTING THE HEART AND BLOOD VESSELS, FROM CHRONIC DISEASES TO ACUTE EMERGENCIES.

ISCHEMIC HEART DISEASE

THIS CATEGORY ENCOMPASSES CONDITIONS CAUSED BY NARROWED OR BLOCKED CORONARY ARTERIES, REDUCING BLOOD FLOW TO THE HEART MUSCLE. KEY TERMS INCLUDE ANGINA PECTORIS (CHEST PAIN DUE TO REDUCED BLOOD FLOW), MYOCARDIAL INFARCTION (HEART ATTACK), AND ATHEROSCLEROSIS (PLAQUE BUILDUP IN ARTERIES). UNDERSTANDING SUFFIXES LIKE "-EMIA" (CONDITION) AND ROOTS RELATED TO BLOOD FLOW IS CRUCIAL HERE.

HEART FAILURE

HEART FAILURE OCCURS WHEN THE HEART CANNOT PUMP BLOOD EFFECTIVELY TO MEET THE BODY'S NEEDS. TERMS LIKE "CONGESTIVE HEART FAILURE (CHF)," "PULMONARY EDEMA," AND "CARDIOMEGALY" (ENLARGED HEART) ARE COMMONLY USED. DESCRIPTIONS OF THE LEFT-SIDED VERSUS RIGHT-SIDED FAILURE AND THE DEGREE OF IMPAIRMENT ARE ALSO PART OF THIS TERMINOLOGY.

ARRHYTHMIAS

ARRHYTHMIAS ARE IRREGULAR HEART RHYTHMS. TERMS LIKE ATRIAL FIBRILLATION (AFIB), VENTRICULAR TACHYCARDIA (VT), AND BRADYCARDIA DESCRIBE THESE DISRUPTIONS IN THE HEART'S ELECTRICAL ACTIVITY. UNDERSTANDING PREFIXES LIKE "BRADY-" AND "TACHY-" IS VITAL FOR CATEGORIZING THESE CONDITIONS.

HYPERTENSION AND HYPOTENSION

HYPERTENSION REFERS TO PERSISTENTLY HIGH BLOOD PRESSURE, WHILE HYPOTENSION REFERS TO PERSISTENTLY LOW BLOOD PRESSURE. THESE TERMS ARE FUNDAMENTAL TO UNDERSTANDING CARDIOVASCULAR RISK FACTORS AND MANAGEMENT. THE PREFIXES "HYPER-" AND "HYPO-" CLEARLY DELINEATE THESE OPPOSING CONDITIONS.

DIAGNOSTIC PROCEDURES AND IMAGING

ACCURATE DIAGNOSIS OF CARDIAC CONDITIONS RELIES HEAVILY ON SPECIALIZED PROCEDURES AND IMAGING TECHNIQUES, EACH WITH ITS OWN SET OF SPECIFIC MEDICAL TERMS. THESE TOOLS ALLOW CLINICIANS TO VISUALIZE THE HEART'S STRUCTURE AND FUNCTION AND ASSESS ITS ELECTRICAL ACTIVITY.

ELECTROCARDIOGRAPHY (ECG/EKG)

AN ELECTROCARDIOGRAM RECORDS THE ELECTRICAL ACTIVITY OF THE HEART. TERMS LIKE P WAVE, QRS COMPLEX, AND T WAVE REPRESENT DIFFERENT PARTS OF THE ELECTRICAL CYCLE. ABNORMALITIES SUCH AS ST ELEVATION OR QT PROLONGATION ARE CRITICAL FINDINGS COMMUNICATED THROUGH ECG TERMINOLOGY.

ECHOCARDIOGRAPHY

ECHOCARDIOGRAPHY, OR "ECHO," USES ULTRASOUND WAVES TO CREATE IMAGES OF THE HEART. TERMS LIKE EJECTION FRACTION (EF), WALL MOTION ABNORMALITIES, AND VALVE REGURGITATION ARE USED TO ASSESS THE HEART'S PUMPING FUNCTION AND STRUCTURAL INTEGRITY. UNDERSTANDING TERMS RELATED TO MEASUREMENTS AND VISUALIZATION IS KEY.

CARDIAC CATHETERIZATION AND ANGIOGRAPHY

CARDIAC CATHETERIZATION INVOLVES INSERTING A THIN TUBE (CATHETER) INTO A BLOOD VESSEL AND GUIDING IT TO THE HEART. ANGIOGRAPHY IS OFTEN PERFORMED DURING CATHETERIZATION TO VISUALIZE THE CORONARY ARTERIES USING CONTRAST DYE. TERMS LIKE STENOSIS, OCCLUSION, AND REVASCULARIZATION ARE CENTRAL TO DESCRIBING FINDINGS FROM THESE INVASIVE PROCEDURES.

STRESS TESTING

STRESS TESTING EVALUATES HOW THE HEART PERFORMS UNDER PHYSICAL EXERTION. THIS CAN INVOLVE TREADMILL TESTING OR PHARMACOLOGIC STRESS. TERMS LIKE MAXIMAL HEART RATE, EXERCISE-INDUCED ISCHEMIA, AND RECOVERY HEART RATE ARE USED TO INTERPRET THE RESULTS AND ASSESS THE HEART'S CAPACITY.

PHARMACOLOGICAL INTERVENTIONS IN CARDIOLOGY

THE MANAGEMENT OF CARDIOVASCULAR DISEASES FREQUENTLY INVOLVES A WIDE ARRAY OF MEDICATIONS, EACH WITH SPECIFIC ACTIONS AND INDICATIONS. THE TERMINOLOGY ASSOCIATED WITH THESE DRUGS IS CRUCIAL FOR UNDERSTANDING TREATMENT REGIMENS AND PATIENT INSTRUCTIONS.

ANTIPLATELET AND ANTICOAGULANT AGENTS

THESE MEDICATIONS ARE USED TO PREVENT BLOOD CLOTS. TERMS LIKE ASPIRIN, CLOPIDOGREL, WARFARIN, AND HEPARIN ARE COMMON. UNDERSTANDING INDICATIONS SUCH AS PREVENTION OF STROKE OR TREATMENT OF DEEP VEIN THROMBOSIS (DVT) IS IMPORTANT.

BETA-BLOCKERS AND ACE INHIBITORS

BETA-BLOCKERS (E.G., METOPROLOL) REDUCE HEART RATE AND BLOOD PRESSURE, WHILE ANGIOTENSIN-CONVERTING ENZYME (ACE) INHIBITORS (E.G., LISINAPRIL) RELAX BLOOD VESSELS. THESE ARE FOUNDATIONAL MEDICATIONS FOR MANAGING CONDITIONS LIKE HYPERTENSION, HEART FAILURE, AND POST-MYOCARDIAL INFARCTION CARE.

DIURETICS AND STATINS

DIURETICS HELP THE BODY ELIMINATE EXCESS FLUID AND SALT, REDUCING BLOOD PRESSURE AND SWELLING, OFTEN USED IN HEART FAILURE. STATINS ARE CHOLESTEROL-LOWERING DRUGS, CRUCIAL FOR MANAGING ATHEROSCLEROSIS AND REDUCING CARDIOVASCULAR RISK. TERMS LIKE "EDEMA" AND "CHOLESTEROL LEVELS" ARE CLOSELY LINKED TO THE USE OF THESE DRUG CLASSES.

SURGICAL INTERVENTIONS IN CARDIOLOGY

WHEN MEDICAL MANAGEMENT IS INSUFFICIENT, SURGICAL INTERVENTIONS BECOME NECESSARY TO TREAT SEVERE CARDIAC CONDITIONS. THE TERMINOLOGY SURROUNDING THESE PROCEDURES IS OFTEN COMPLEX, DESCRIBING INTRICATE ANATOMICAL REPAIRS AND THE USE OF SOPHISTICATED MEDICAL DEVICES.

CORONARY ARTERY BYPASS GRAFTING (CABG)

CABG, COMMONLY KNOWN AS BYPASS SURGERY, CREATES NEW PATHWAYS FOR BLOOD TO FLOW TO THE HEART MUSCLE BY USING GRAFTS FROM OTHER PARTS OF THE BODY. TERMS LIKE "GRAFT," "ANASTOMOSIS," AND "STENOTIC LESIONS" ARE INTEGRAL TO DESCRIBING THIS PROCEDURE AND ITS OUTCOMES.

VALVULAR HEART SURGERY

THIS INVOLVES THE REPAIR OR REPLACEMENT OF DAMAGED HEART VALVES. PROCEDURES INCLUDE VALVE REPAIR, VALVULOPLASTY, AND VALVE REPLACEMENT WITH PROSTHETIC OR BIOLOGICAL VALVES. UNDERSTANDING TERMS RELATED TO SPECIFIC VALVES (MITRAL, AORTIC) AND THE TYPE OF REPAIR OR PROSTHESIS USED IS ESSENTIAL.

IMPLANTABLE DEVICES

PACEMAKERS ARE IMPLANTED TO REGULATE SLOW HEART RHYTHMS, WHILE IMPLANTABLE CARDIOVERTER-DEFIBRILLATORS (ICDs) ARE USED TO TREAT LIFE-THREATENING ARRHYTHMIAS. TERMS LIKE "LEAD," "GENERATOR," AND "CARDIOVERSION/DEFIBRILLATION" ARE ASSOCIATED WITH THESE LIFE-SAVING DEVICES.

TRANSCATHETER PROCEDURES

BEYOND ANGIOPLASTY, TRANSCATHETER AORTIC VALVE REPLACEMENT (TAVR) AND TRANSCATHETER MITRAL VALVE REPAIR (TMVR) ARE MINIMALLY INVASIVE PROCEDURES PERFORMED VIA CATHETERS, AVOIDING OPEN-HEART SURGERY. THESE REPRESENT ADVANCEMENTS IN CARDIAC INTERVENTION AND REQUIRE UNDERSTANDING OF NOVEL TERMINOLOGY.

THE IMPORTANCE OF CONTINUOUS LEARNING IN CARDIAC TERMINOLOGY

THE FIELD OF CARDIOLOGY IS DYNAMIC, WITH ONGOING ADVANCEMENTS IN DIAGNOSTICS, TREATMENTS, AND UNDERSTANDING OF DISEASES. CONSEQUENTLY, CARDIAC MEDICAL TERMINOLOGY IS CONSTANTLY EVOLVING. HEALTHCARE PROFESSIONALS MUST ENGAGE IN CONTINUOUS LEARNING TO STAY ABREAST OF NEW TERMS, EMERGING TECHNOLOGIES, AND UPDATED GUIDELINES. THIS COMMITMENT TO KNOWLEDGE ENSURES THAT COMMUNICATION REMAINS ACCURATE, EFFICIENT, AND SUPPORTIVE OF THE HIGHEST QUALITY PATIENT CARE. A SOLID FOUNDATION IN THE CURRENT TERMINOLOGY, COMBINED WITH A PROACTIVE APPROACH TO LEARNING, EMPOWERS INDIVIDUALS TO CONFIDENTLY NAVIGATE THE COMPLEXITIES OF CARDIOVASCULAR MEDICINE AND CONTRIBUTE EFFECTIVELY TO THE WELL-BEING OF PATIENTS.

FAQ

Q: WHAT IS THE MOST COMMON TERM FOR A HEART ATTACK?

A: THE MOST COMMON TERM FOR A HEART ATTACK IS MYOCARDIAL INFARCTION (MI). IT REFERS TO THE DEATH OF HEART MUSCLE TISSUE DUE TO A PROLONGED LACK OF OXYGENATED BLOOD SUPPLY, USUALLY CAUSED BY A BLOCKAGE IN A CORONARY ARTERY.

Q: CAN YOU EXPLAIN THE DIFFERENCE BETWEEN SYSTOLE AND DIASTOLE IN SIMPLE TERMS?

A: SYSTOLE IS THE PHASE OF THE CARDIAC CYCLE WHEN THE HEART MUSCLE CONTRACTS AND PUMPS BLOOD OUT TO THE BODY AND LUNGS. DIASTOLE IS THE PHASE WHEN THE HEART MUSCLE RELAXES AND FILLS WITH BLOOD IN PREPARATION FOR THE NEXT CONTRACTION. THINK OF SYSTOLE AS THE "PUSH" AND DIASTOLE AS THE "FILL."

Q: WHAT DOES "STENOSIS" MEAN WHEN REFERRING TO A HEART VALVE?

A: STENOSIS, WHEN REFERRING TO A HEART VALVE, MEANS THAT THE VALVE HAS BECOME NARROWED OR STIFFENED. THIS NARROWING RESTRICTS THE NORMAL FLOW OF BLOOD THROUGH THE VALVE, FORCING THE HEART TO WORK HARDER TO PUMP BLOOD EFFECTIVELY.

Q: WHAT IS THE SIGNIFICANCE OF THE "P WAVE" ON AN ELECTROCARDIOGRAM (ECG)?

A: THE P WAVE ON AN ECG REPRESENTS ATRIAL DEPOLARIZATION, WHICH IS THE ELECTRICAL ACTIVATION OF THE ATRIA. IT SIGNIFIES THAT THE ELECTRICAL IMPULSE ORIGINATING FROM THE SINOATRIAL (SA) NODE IS SPREADING THROUGH THE ATRIA, LEADING TO ATRIAL CONTRACTION.

Q: WHAT IS THE PRIMARY FUNCTION OF AN ACE INHIBITOR MEDICATION?

A: THE PRIMARY FUNCTION OF AN ACE INHIBITOR MEDICATION IS TO BLOCK THE ACTION OF THE ANGIOTENSIN-CONVERTING ENZYME. THIS LEADS TO VASODILATION (WIDENING OF BLOOD VESSELS) AND A REDUCTION IN SODIUM AND WATER RETENTION, ULTIMATELY LOWERING BLOOD PRESSURE AND REDUCING THE WORKLOAD ON THE HEART.

Q: WHAT IS THE DIFFERENCE BETWEEN A PACEMAKER AND AN ICD (IMPLANTABLE CARDIOVERTER-DEFIBRILLATOR)?

A: A PACEMAKER IS DESIGNED TO REGULATE SLOW HEART RHYTHMS BY SENDING ELECTRICAL IMPULSES TO ENSURE THE HEART BEATS AT AN APPROPRIATE RATE. AN ICD, WHILE IT CAN ALSO FUNCTION AS A PACEMAKER, IS PRIMARILY DESIGNED TO DETECT

AND TREAT DANGEROUSLY FAST AND IRREGULAR HEART RHYTHMS (ARRHYTHMIAS) BY DELIVERING AN ELECTRICAL SHOCK TO RESTORE A NORMAL RHYTHM.

Q: WHAT DOES THE TERM "ISCHEMIA" MEAN IN A CARDIAC CONTEXT?

A: ISCHEMIA IN A CARDIAC CONTEXT REFERS TO A REDUCED BLOOD FLOW TO THE HEART MUSCLE, WHICH DEPRIVES IT OF OXYGEN. THIS IS OFTEN DUE TO NARROWED CORONARY ARTERIES AND CAN CAUSE SYMPTOMS LIKE CHEST PAIN (ANGINA) OR, IF PROLONGED, LEAD TO A MYOCARDIAL INFARCTION.

Q: WHAT IS THE ROLE OF THE MITRAL VALVE IN THE HEART?

A: THE MITRAL VALVE, ALSO KNOWN AS THE BICUSPID VALVE, IS LOCATED BETWEEN THE LEFT ATRIUM AND THE LEFT VENTRICLE. ITS ROLE IS TO ENSURE THAT BLOOD FLOWS IN ONLY ONE DIRECTION, FROM THE LEFT ATRIUM INTO THE LEFT VENTRICLE, AND TO PREVENT BACKFLOW OF BLOOD INTO THE LEFT ATRIUM WHEN THE LEFT VENTRICLE CONTRACTS.

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