Culture Advantage

Anatomy and Medical Terminology for Interpreters

CARDIOVASCULAR SYSTEM

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Cardiovascular System Case Study for Powerpoint Presentation

You are the interpreter who is called to the Emergency Department late in the evening. Mr. Cruz is brought in by his family due to his complaints of indigestion after eating a big dinner and his symptoms have increasingly become worse. He is complaining of severe chest pain, he is short of breath, sweating profusely, very anxious, and nauseated.

The doctor is explaining to Mr. Cruz and his family that Mr. Cruz has signs and symptoms of having an MI or heart attack. Mr. Cruz is connected to a heart monitor and his EKG is taken. He is hooked up to a vital signs machine that continually monitors his blood pressure, heart rate, respiratory rate, and oxygen saturation (also called 02 sats).

A lab technician comes in to draw blood from his right arm while a nurse starts an IV in his left arm. A respiratory therapist administers oxygen. Upon receiving the EKG report and the preliminary blood test, the doctor informs Mr. Cruz that the tests indicate that he is having a heart attack. A cardiologist has been consulted and he is on his way to do a heart cath. The cardiologist arrives within minutes and examines Mr. Cruz. He informs Mr. Cruz and his family that Mr. Cruz is having a heart attack and an emergency heart catheterization needs to be done immediately.

As the interpreter, you are asked to sight translate the consent form. The consent form is for the procedure: "Right and left heart catherization and coronary angiography with possible percutaneous transluminal coronary angioplasty."

By the end of this session, you will learn the meaning of the following words:

- MI or heart attack
- EKG
- Cardiologist
- Heart cath or heart catheterization
- PTCA, coronary stent
- Arteriogram
- Angiography
- Coronary angiography
- CABG or open heart surgery

Cardiovascular Terminology

cardiology	cardio-heart	arteriogram	Arterio –artery
	logy –study of		Gram – record, image;
	Study of the heart		Image of the artery or
	Stady of the fields		arterial system by
			injecting a dye
valvuloplasty	valvulo – valves (heart	atrial fibrillation	Atria –upper chambers
varvaropiusty	valves)	or atrial fib	of the heart
	Surgical repair of the	Or acriai his	Fibrillation – irregular
	heart valves		quivering of the heart
	Plasty -repair		Irregular beating of the
	Plasty -lepail		
PTCA	Dorcutanoous	CABG	upper part of the heart.
PICA	Percutaneous Transluminal	CABG	Coronary Artery Bypass Graft
	Coronary Angioplasty		Heart surgery to replace
	Repair of coronary		a coronary artery with a
	vessel by means of a		vein usually from the
	balloon or mesh stent		leg
bradycardia	Brady-slow	cardiomyopathy	Myo – muscle
	Slower than normal		Pathy – disease
	heart rate		Heart disease
electrocardiogram,	Electro –electrical,	echocardiogram	Echo –sound waves
EKG	gram – record, image		(ultrasound)
	Recording of the		Gram – record
	electrical activity of		Study of the heart using
	the heart		ultrasound or sound
			waves
megaly	enlarged	ectomy	removal
cardiomegaly	megaly – enlarged	embolectomy	Removal of a blood clot
	Enlarged heart		that is blocking the
			circulation
arrhythmia,	A – without, dys –	embolus	Means blood clot -
dysrhythmia	abnormal, rhythmia –		a blood clot in the
	rhythm		circulation
	Abnormal heart		Pulmonary embolus –
	rhythm		blood clot in the lungs
carotid stenosis	stenosis –narrowing	hypertension	Hyper – elevated or
	Narrowing of the		high
	carotid arteries		Tension –pressure
			Another name for high
			blood pressure
cardio, card, cardia,	heart	logy	Study of
caraio, cara, caraia,	Heart	106 <i>)</i>	Jeany or

coronary			
gram, graph, graphy	A recording or image	lysis	Dissolve or break up
Coronary angiography	Recording or image of the coronary arteries	Heart cath	Or heart catheterization or coronary
	the coronary arteries		catheterization -
			insertion of a small
			flexible tube into the
			coronary vessels for
			diagnosis or treatment.
coronary thrombosis	thrombo -clot	myocarditis	Myo –muscle
,	A blood clot in the	,	itis – inflammation
	coronary artery		Inflammation of a heart
			muscle
plasty	repair	osis	A condition
itis	inflammation	otomy	Incision, cutting into
hypo	Abnormally low	pathy	disease
endo	Inside, inner	peri	outer
Myocardial infarction,	myo –muscle, Infarct	phlebotomy	phlebo – vein
MI or heart attack	– death		otomy – incision or
	Death or injury in the		cutting into
	heart muscle		Usually refers to
			aspiration of blood from
			a vein
hyper	High or excessive	stenosis	narrowing
brady	slow	tachy	high
myocardial ischemia	myo – muscle	thrombolysis	thrombo -blot clot
	ischemia –insufficient		lysis – to break up or to
	oxygen supply		dissolve
	Insufficient supply of		The action of breaking
	oxygen to the heart		up a clot usually by
			medication.
coronary angioplasty	angio -blood vessel,	thrombophlebitis	phlebitis – inflammation
	plasty = repair		of a vein, thrombo –
	A procedure to repair		blood clot
	a coronary blood		Inflammation of a vein
1 100	vessel		due to a blood clot
endocarditis	endo- inner, -itis –	thrombosis	Blood clot
	inflammation		Osis –condition
	Inflammation of the		Presence of a blood clot
	inner lining of the		
	heart		

Anatomy-related Terms

TERM	DESCRIPTION	EXAMPLE
Arterio	Artery, supplies oxygenated	Arteriogram
	blood to the body	
Atrium, atrial	Upper chambers of the heart	Atrial flutter, atrial fibrillation
Heart valves	Prevent backflow of blood in the	Mitral valve, Aortic valve
	heart	Tricuspid valve, Pulmonary
		valve
Aorta	Largest artery of the body,	Aortic stenosis
	supplies blood to the body	
Ventricle, ventriculo	Lower chambers of the heart	Ventricular fibrillation
Carotid artery	Supplies blood to the brain	Carotid artery stenosis
Coronary artery	Supplies blood to the heart	Coronary Artery Bypass Graft
Aneurysm	A weakened area in a blood	Abdominal Aortic Aneurysm
	vessel	(AAA)
Aortic valve	Prevents backflow (regurgitation)	Aortic valve Insufficiency
	of blood from the aorta into the	("leaky valve")
	heart	
Mitral valve	Prevents backflow of blood in	Mitral Valve Prolapse (MVP)
	the left side of the heart	(bulging in the mitral valve)
Vein	Blood vessel that returns blood	Inferior Vena Cava returns
	from the lower part of the body	blood from the body to the
	back to the heart	right atrium of the heart.

PREFIX, ROOT WORD, SUFFIX

Terminology	Prefix/Root Word	Root Word/Suffix	Meaning
angioplasty	angio - vessel	plasty - repair	To repair a blood vessel
arteriogram	arterio	gram	To obtain an image of the
			arterial blood supply using Xrays
			and injecting a dye
arteritis	arter - artery	itis-inflammation	Inflammation of an artery
Coronary	Coronary, cor -	Embolism – blood	A clot in the heart that travelled
embolism	heart	clot in the	from another site of the body
		circulation	
aortogram	aorta, aorto	Gram-image or	To obtain an image of the aorta
		record	using xrays and injecting a dye
cardiology	Cardio-heart	Logy-study of	Medical specialty dealing with
			the heart
cardiologist	cardio	logist	A physician who specializes in
			the heart

cardiomyopathy	cardio + myo =heart muscle	Pathy - disease	Disease of the heart muscle
cardiomegaly	cardio	megaly	Enlarged heart
thrombosis	Thromb-clot	Osis- condition	Formation of a blood clot
thrombectomy	Thromb-clot	Ectomy - removal	Removal of a blood clot
phlebitis	Phleb-vein	'itis' inflammation	Inflammation of a vein
phlebectomy	phleb	ectomy	Removal of a vein
endocarditis	Endo –inside, Cardi -heart	'itis' inflammation	Inflammation of the inner lining of the heart
Coronary thrombosis	Coronary-heart Thromb-clot	Osis-condition	Formation of a blood clot in the heart
Carotid endarterectomy	Carotid Endarter- inside an artery	Ectomy-removal	Removal of plaque that is blocking the carotid artery
electrocardiogram	Electro-electrical Cardio-heart	Gram-image or record	Recording of the electrical activity of the heart
bradycardia	Brady -slow	Cardia-heart	Slow heart rate
tachycardia	Tachy -fast	Cardia-heart	Rapid heart rate
Abdominal Aortic aneurysm	Abdominal, aortic	Aneurysm- a weakening or a "pouching" of a blood vessel	A weakened area in the abdominal aorta.
Ventricular tachycardia	Tachy- fast	Cardia-heart	The ventricles of the heart are beating rapidly
Atrial tachycardia	Tachy-fast	Cardia-heart	The atria of the heart are beating rapidly
pericarditis	Peri-around Card- heart	'itis' inflammation	Inflammation of the outer covering of the heart
thrombophlebitis	Thrombo-blood clot Phlebo-vein	'itis' inflammation	Inflammation and blood clot in a vein
echocardiogram	Echo – sound Cardio -heart	Gram-image or record	To obtain an image of the heart using sound waves
Mitral valvuloplasty	valvulo	plasty	Surgical procedure to repair the mitral valve

EXPLAIN THE MEANING OF THE FOLLOWING TERMS:

angioplasty	
arteriogram	
arteritis	

Coronary embolism	
aortogram	
cardiology	
cardiologist	
cardiomyopathy	
cardiomegaly	
thrombosis	
thrombectomy	
phlebitis	
phlebectomy	
endocarditis	
Coronary thrombosis	
Carotid endarterectomy	
electrocardiogram	
bradycardia	
tachycardia	
Abdominal aneurysm	
Ventricular tachycardia	
Atrial tachycardia	
pericarditis	
thrombophlebitis	
echocardiogram	

Resources

Cancer Site
http://www.cancer.gov/dictionary
Health Information in Multiple Languages
http://www.nlm.nih.gov/medlineplus/languages/languages.html
Medical Dictionary
http://www.nlm.nih.gov/medlineplus/mplusdictionary.html
Medical Encyclopedia
http://www.nlm.nih.gov/medlineplus/encyclopedia.html
Medline Plus
http://www.nlm.nih.gov/medlineplus/appendixa.html
Medline Plus in Spanish
http://www.nlm.nih.gov/medlineplus/spanish/medlineplus.html
National Heart, Lung, and Blood Institute
http://www.nhlbi.nih.gov/
Wikipedia Root Words, Prefixes
http://en.wikipedia.org/wiki/List_of_medical_roots