



COURSE DESCRIPTION

ACADEMIC CENTER SCHOOL OF MEDICAL SCIENCES		DEPARTMENT GENERAL SURGERY DEPARTMENT	
COURSE NAME PHYSIOPATHOLOGICAL MECHANISMS IN PANCREATIC DISEASES		<input type="checkbox"/> CORE COURSE <input checked="" type="checkbox"/> OPTIONAL COURSE	HOURS 30 CREDITS 2
PROGRAM / PROJECT NAME PHYSIOPATHOLOGY AND SURGICAL SCIENCES <u>Key Focus Area:</u> Operative Technique and Experimental Surgery		DISTRIBUTION OF HOURS -	
		TYPE OF CLASS	HOURS
		THEORETICAL	30
		PRACTICAL	2
		TOTAL	30
			2
PREREQUISITES		<input checked="" type="checkbox"/> Master's program course <input checked="" type="checkbox"/> Doctorate's program course	

COURSE DESCRIPTION

This course aims to review pancreatic physiology and pathophysiology, seeking to identify the basic mechanisms of progression of pancreatic diseases and experimental models of pancreatic diseases. Physiological basis and assessment of pancreatic function; Pathophysiological mechanisms of acute pancreatitis; Pathophysiological mechanisms of chronic pancreatitis; Pathophysiological mechanisms of neoplasms of the endocrine pancreas - insulinoma, gastrinoma, glucagonoma, somatostatinoma, vipoma, PPoma, GHRHoma, ACTHoma; non-functioning endocrine pancreatic tumors; Pathophysiological mechanisms of exocrine pancreatic neoplasms; Multiple endocrine neoplasia type 1; Type 1 diabetes mellitus - pathophysiology; therapeutic possibilities; Systemic inflammatory response in diabetic patients; Pancreatic and pancreatic islet transplantation; stem cell transplantation.

BASIC BIBLIOGRAPHY

1. Coronho V, Petroianu A, Sanatan EM, Pimenta LG. Tratado de Endocrinologia e Cirurgia Endócrina. Rio de Janeiro: Guanabara Koogan; 2001.
2. Greenfield LJ, Mulholland MW, Oldham KT, Zelenock GB, Lillemoe KD. Cirurgia – Princípios Científicos e Prática. 3ª. Ed. Rio de Janeiro: Guanabara Koogan; 2004.
3. Hakim N, Stratta R, Gray D. Pancreas and Islet Transplantation. Great Britain: Oxford University Press; 2002.
4. Marques RG. Técnica Operatória e Cirurgia Experimental. Rio de Janeiro: Guanabara Koogan; 2005.
5. Schwartz SI, Shires GT, Spencer FC, Daly JM, Fischer JE, Galloway AC. Principles of Surgery. 8th ed. New York: McGraw-Hill; 2005.
6. Townsend CM, Beauchamp RD, Evers BM, Mattox KL. Sabiston – Textbook of Surgery. 17th ed. Philadelphia: WB Saunders Company; 2004.

PROGRAM / PROJECT COORDINATOR

DATE 	SIGNATURE
-----------------	------------------