

1. Record Nr.	UNINA9910300354603321
Autore	Filipoiu Florin Mihail
Titolo	Atlas of Heart Anatomy and Development // by Florin Mihail Filipoiu
Pubbl/distr/stampa	London : , : Springer London : , : Imprint : Springer, , 2014
ISBN	1-4471-5382-0
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (254 p.)
Disciplina	611.12
Soggetti	Cardiology Cardiac surgery Cardiac Surgery
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Concepts regarding cardiac development -- Cardiogenic mesoderm -- Primitive cardiac tube formation -- Evolution of the cardiac tube -- Atria and interatrial septum formation -- Atrioventricular junction -- Ventricles and interventricular septum formation -- Formation of the coronary vessels -- Formation of the heart valvular apparatus -- Formation of the heart fibrous skeleton -- Formation of the excitoconductor tissue -- Formation of the autonomous innervations -- Formation of the great vessels located at the base of the heart -- Formation of the pericardium -- The anatomy of heart -- The definition of the heart -- Extrinsic relations -- Heart projections -- Position and location -- External configuration -- The right atrium-internal aspect; variability; description of morphological cavitory landmarks -- The left atrium- internal aspect; variability; description of morphological cavitory landmarks -- Topography and internal aspect of the right ventricle; variability; description of morphological cavitory landmarks; the right aspect of the interventricular septum; the membranous septum; the valvular apparatus; ventricular pulmonary junction.- Topography and internal aspect of the left ventricle; variability; description of morphological cavitory landmarks; the left aspect of the interventricular septum; the valvular apparatus; the aortic root -- The myocardial infrastructure -- Microscopic structure: the cardiomyocyte; description; structural pattern; optical and electronic

microscopy -- Extra cellular matrix - definition, components, description; collagen organization of the matrix, histochemical types -- Macroscopical structure of the myocardium - highlighting through dissection of the wall architecture, clinical implications and discussions -- Overall view of the coronary vascular system -- Right coronary artery - origin, course, relations, branches, variability -- Left coronary artery - origin, course, relations, branches, variability -- The excitoconductor system - localization, course, relations, internodal connections, dorso-sinusal space, cavo-tricuspidian istmus, variability -- The fibrous skeleton of the heart - components, localization, description, variability -- The vegetative innervation of the heart - description, nervous plexuses, intramural ganglions -- Anatomic-clinical considerations related to the cardiac pain -- Pericardium - description, projections.

---

### Sommario/riassunto

This book describes the cardiac development and anatomy of the heart, which is richly illustrated by full color images and examples obtained through the dissection and photography of over 200 hearts. Each embryonic, fetal and adult heart image is supplemented by concise explanations of the key concepts involved. The Atlas of Heart Anatomy and Development presents clearly the stages of the embryonic heart, thus providing a key reference for specialists in fetal medicine. The anatomy section presents each cardiac structure with an emphasis on each individual variability possible. Therefore this will be an important resource for trainees and practicing medical professionals in the discipline, including medical students, residents and specialists in cardiology and cardiac surgery.

---