



HUMAN
ANATOMY

Seventh Edition

MARTINI
TIMMONS
TALLITSCH

22

The Cardiovascular System: Vessels and Circulation (part 1)

Introduction

- There are two groups of blood vessels
 - Pulmonary circuit
 - Blood goes to and from the lungs
 - Systemic circuit
 - Blood goes to the rest of the body and back to the heart
- Blood goes to both circuits at the same time with each heartbeat

- The walls of the vessels consist of three layers

- **Intima** (innermost layer)
- **Media** (middle layer)
- **Adventitia** (outermost layer)
- The layered walls give the vessels tremendous strength

