

Objectifs d'histologie évalués lors de l'examen d'admission :

Caractéristiques histologiques de la paroi du cœur et du tissu cardionecteur

Référence bibliographique : Chapitre 13, pages 404-411

Structure histologique des artères élastiques et musculaires, des veines et des capillaires sanguins

Référence bibliographique : Chapitre 13, 411-431

Morphologie microscopique du pharynx, du larynx et de la trachée

Référence bibliographique : Chapitre 19, 668-673

Structure microscopique des bronches, bronchioles et des alvéoles pulmonaires

Référence bibliographique : Chapitre 19, 673-685

Classification des artères

■ ARTERIES

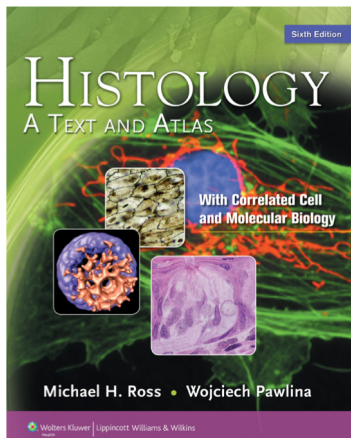
Traditionally, arteries are classified into three types on the basis of size and the **characteristics of the tunica media**.

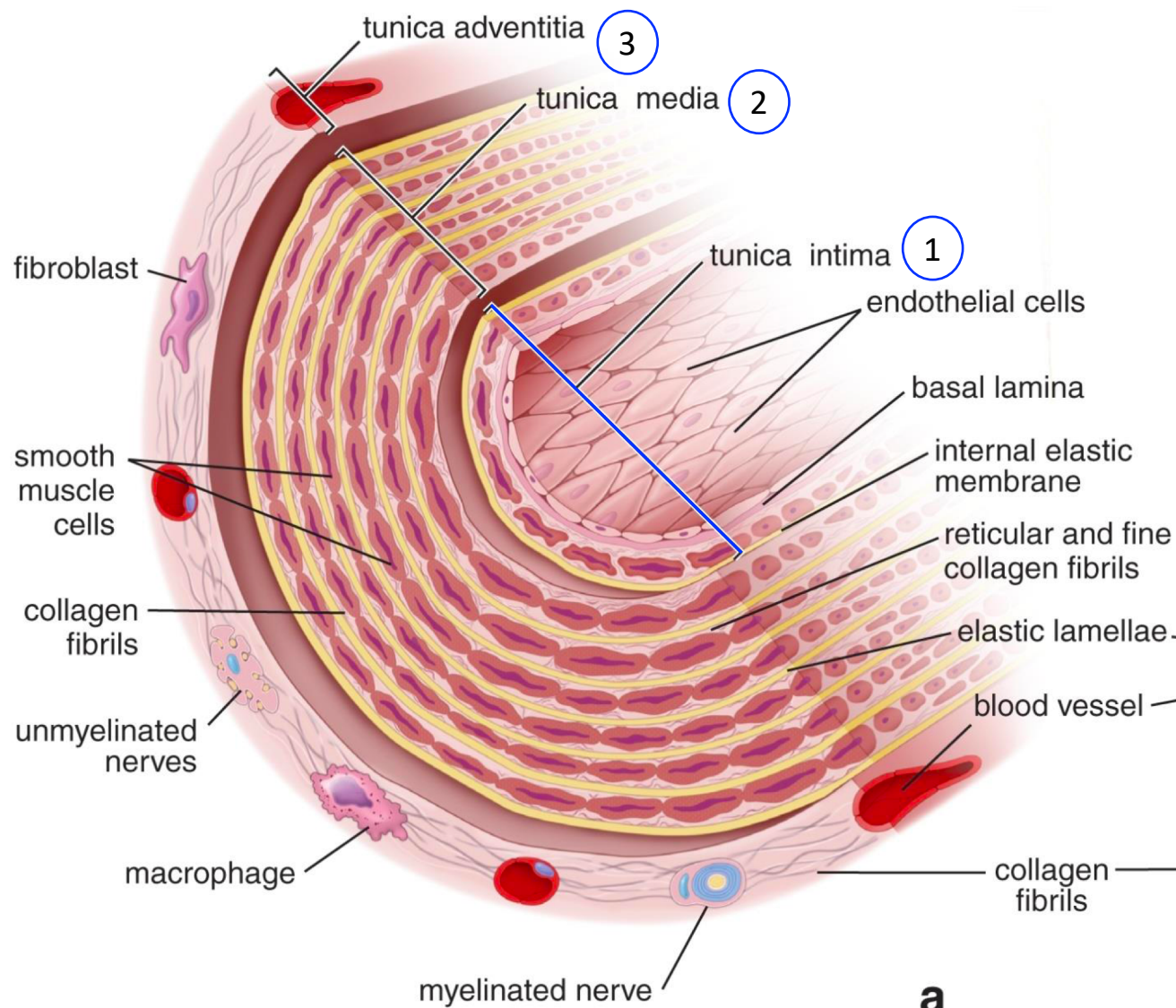
- **Large arteries** or **elastic arteries** such as the **aorta** and pulmonary arteries convey blood from the heart to the systemic and pulmonary circulations, respectively (see Fig. 13.2). Their main branches—the brachiocephalic trunk, common carotid, subclavian, and common iliac arteries—are also classified as elastic arteries.
- **Medium arteries** or **muscular arteries** (most of the “named” arteries of the body) cannot be sharply distinguished from elastic arteries. Some of these arteries are difficult to classify because they have features that are intermediate between the two types.
- **Small arteries** and **arterioles** are distinguished from one another by the number of smooth muscle layers in the tunica media. By definition, arterioles have only one or two layers, and small arteries may have as many as eight layers of smooth muscle in their tunica media.

Artères élastiques

Artères musculaires

Artères de
petite taille





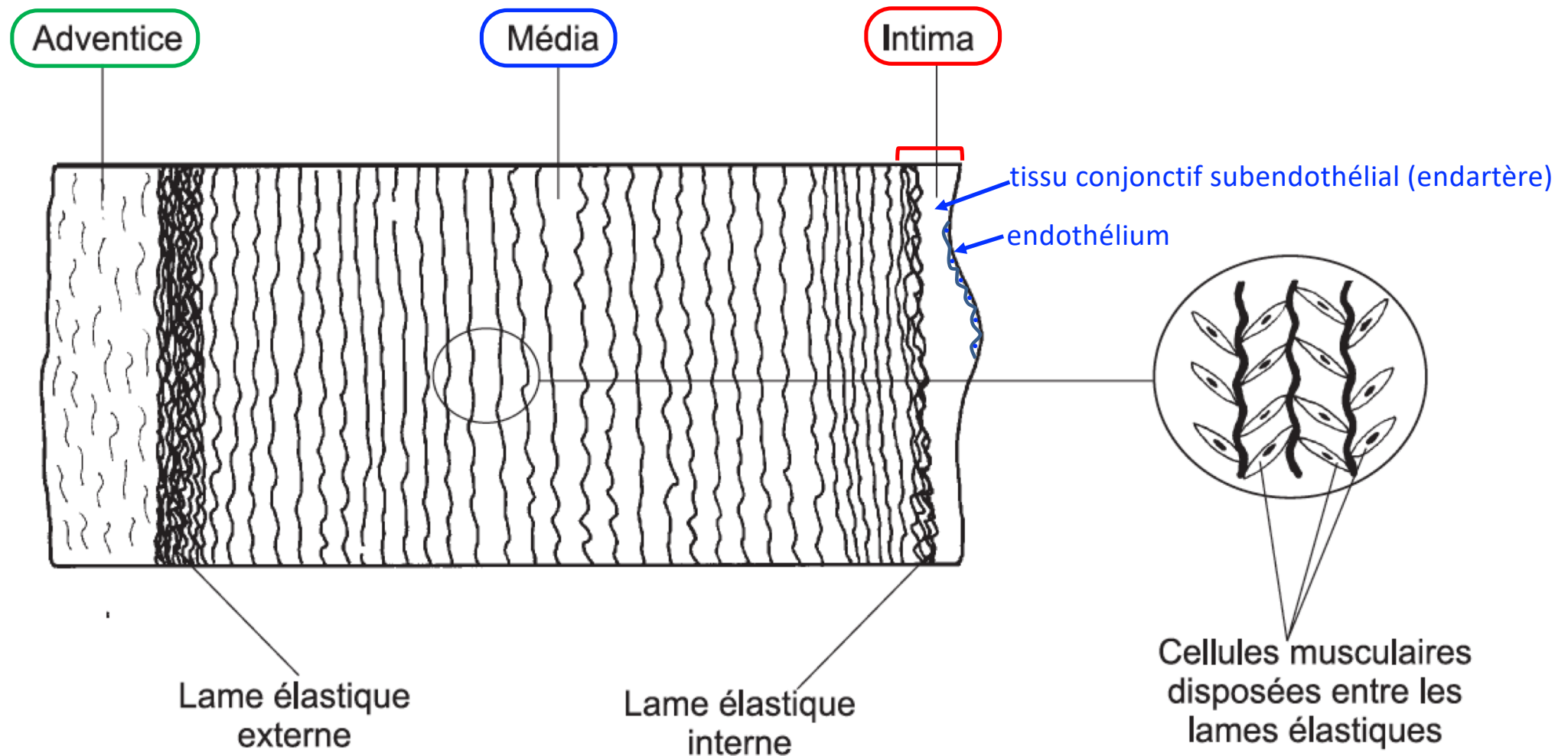
ELASTIC ARTERY



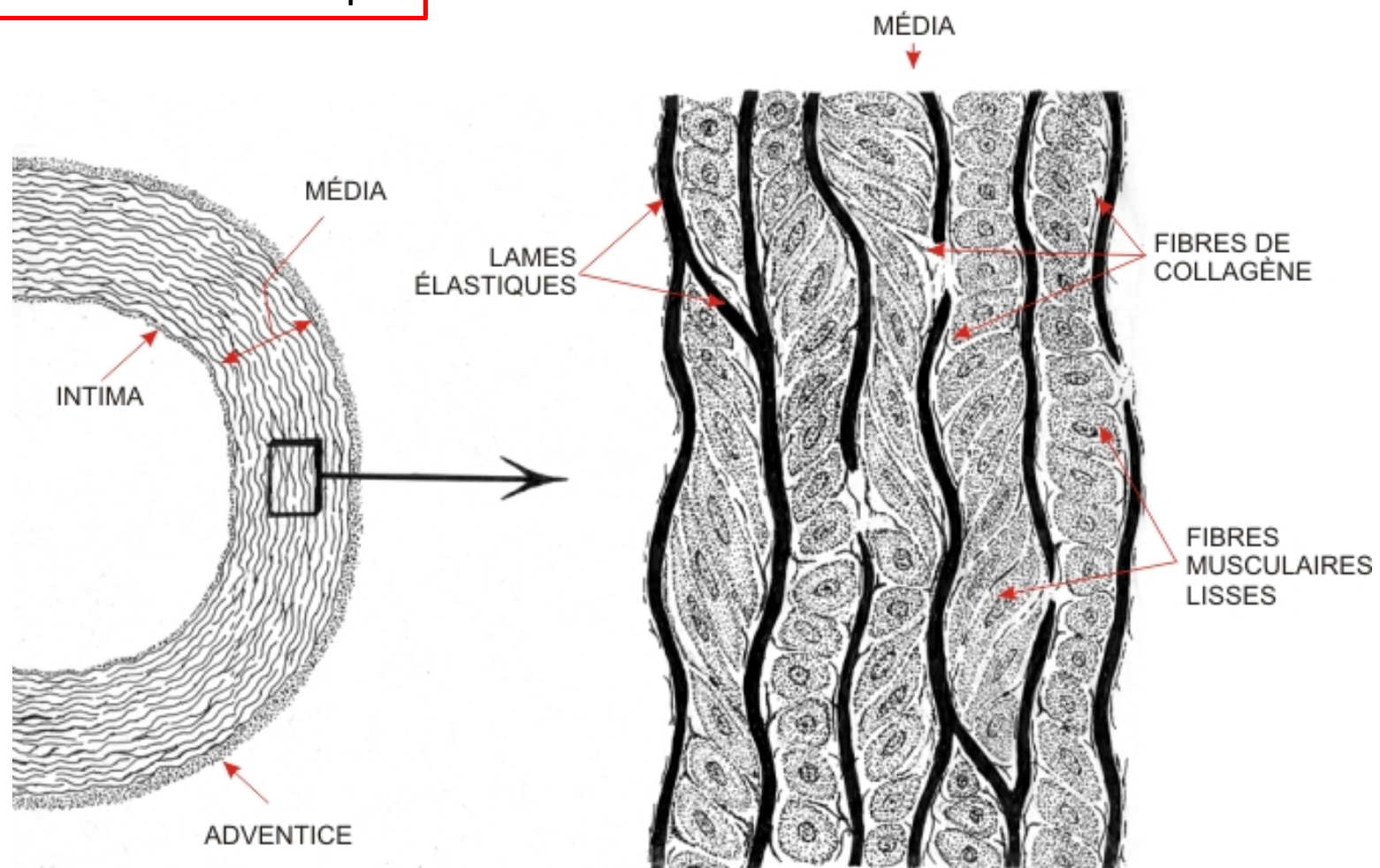
Aorte humaine

x 48

**Figure 2: Représentation schématique d'une artère élastique
(coupe longitudinale)**



Aorte : artère élastique



L'animation décrivant l'aorte est à voir absolument.

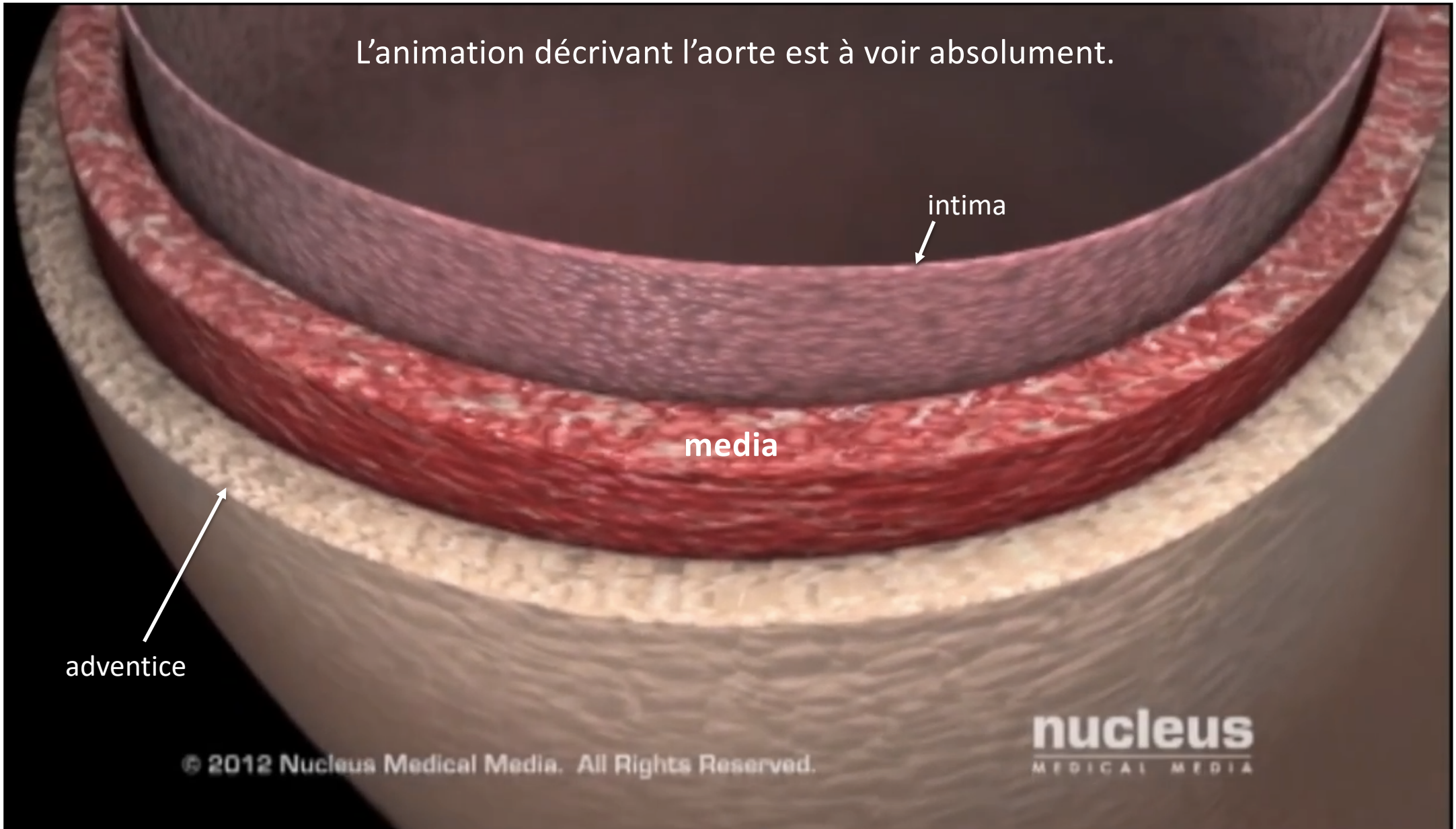
intima

media

adventice

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MEDICAL MEDIA

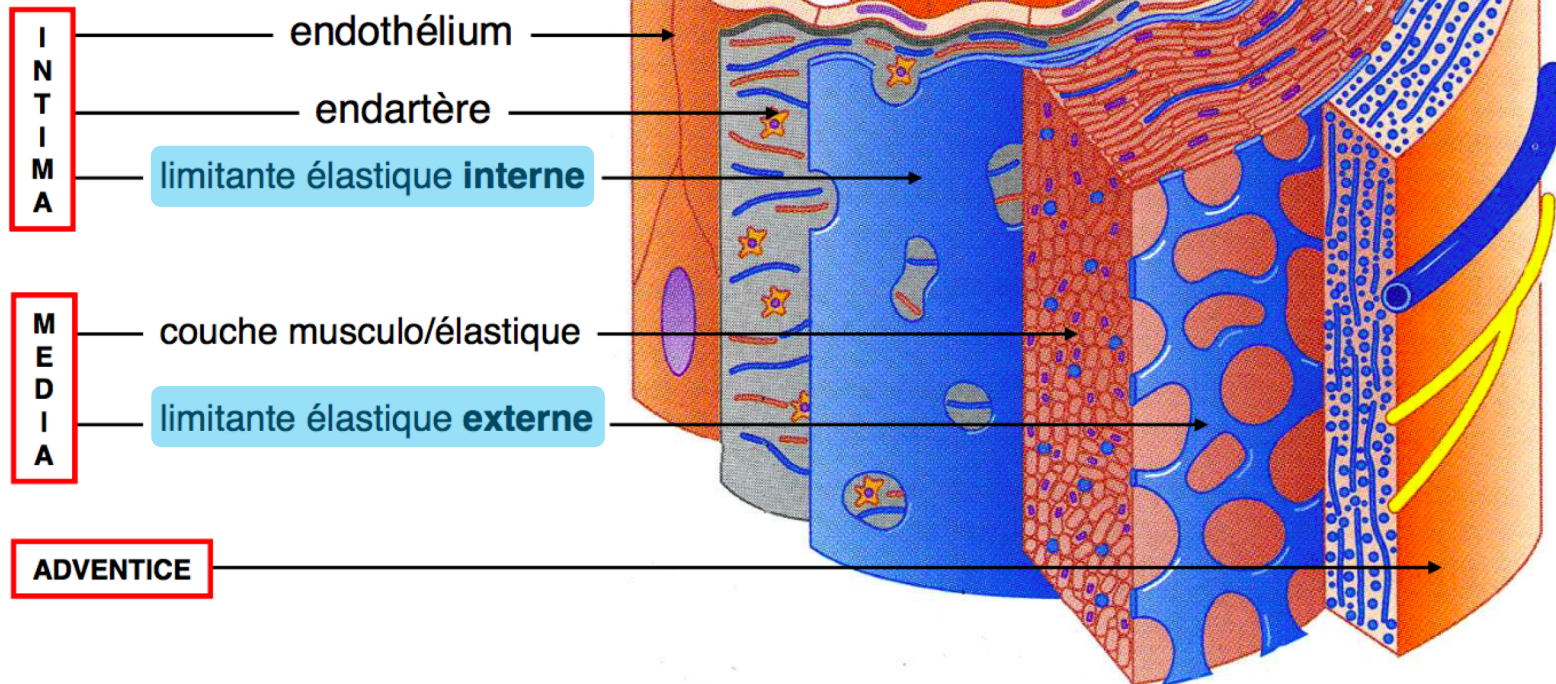


III. LES ARTERES

STRUCTURE GENERALE DE LA PAROI ARTERIELLE

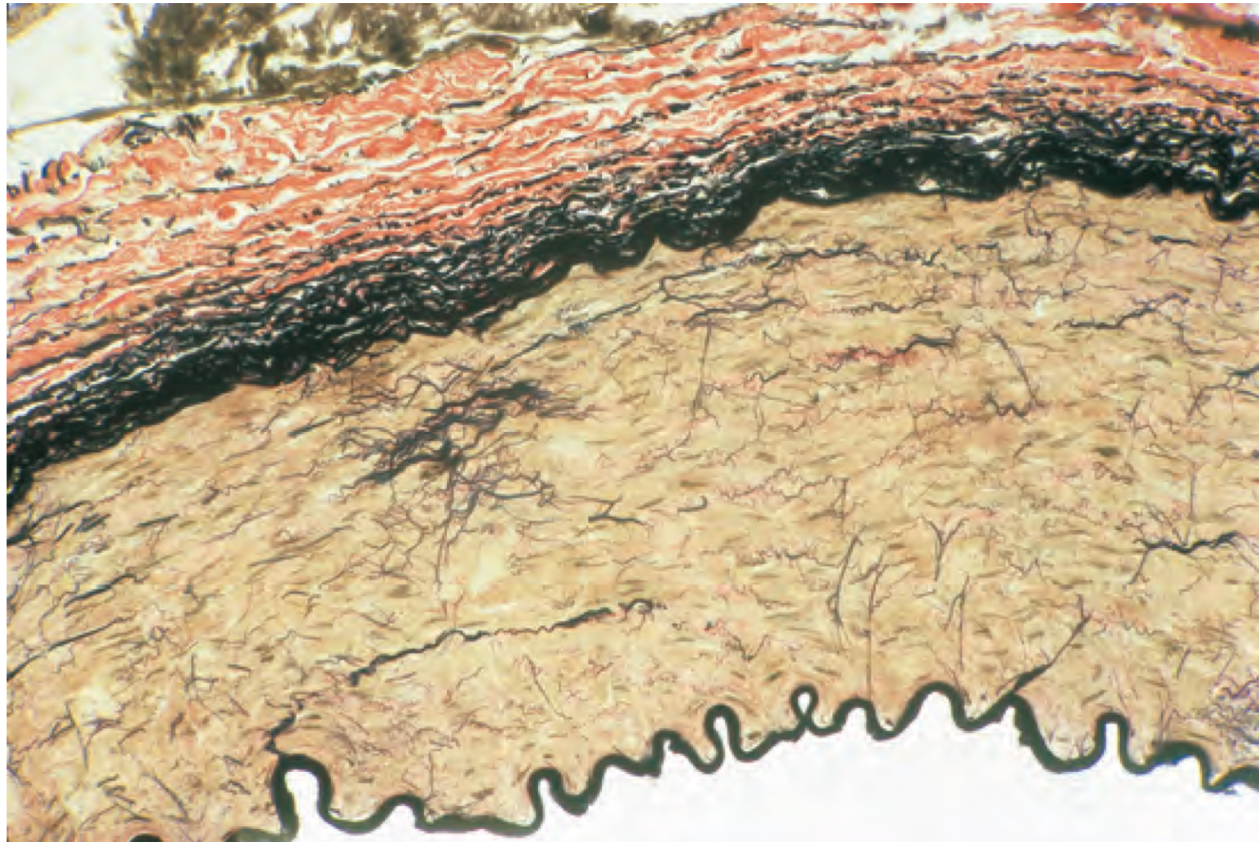


3 tuniques (couches) :



APPROCHE SYSTEMATIQUE

Artère musculaire



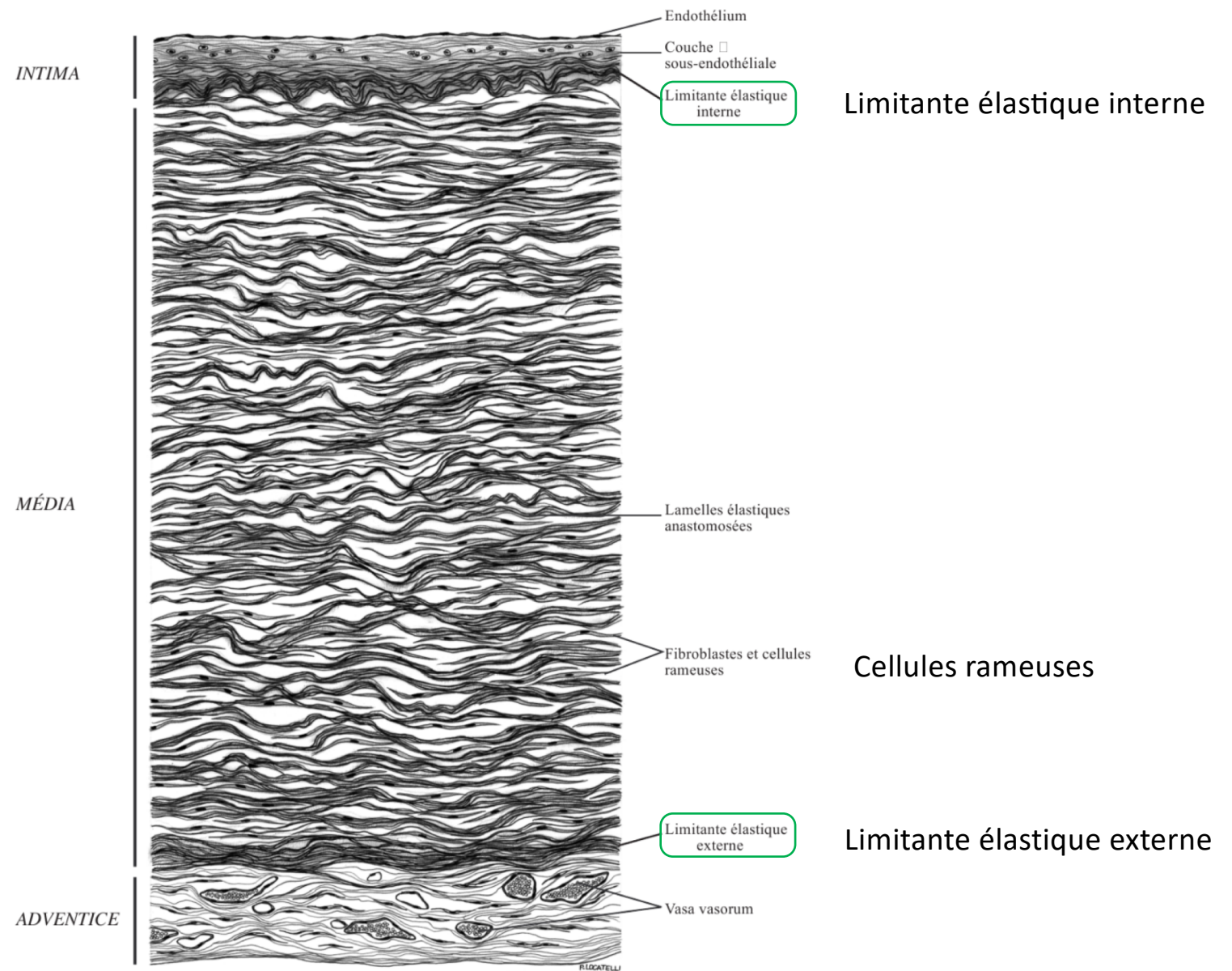
Lame élastique externe

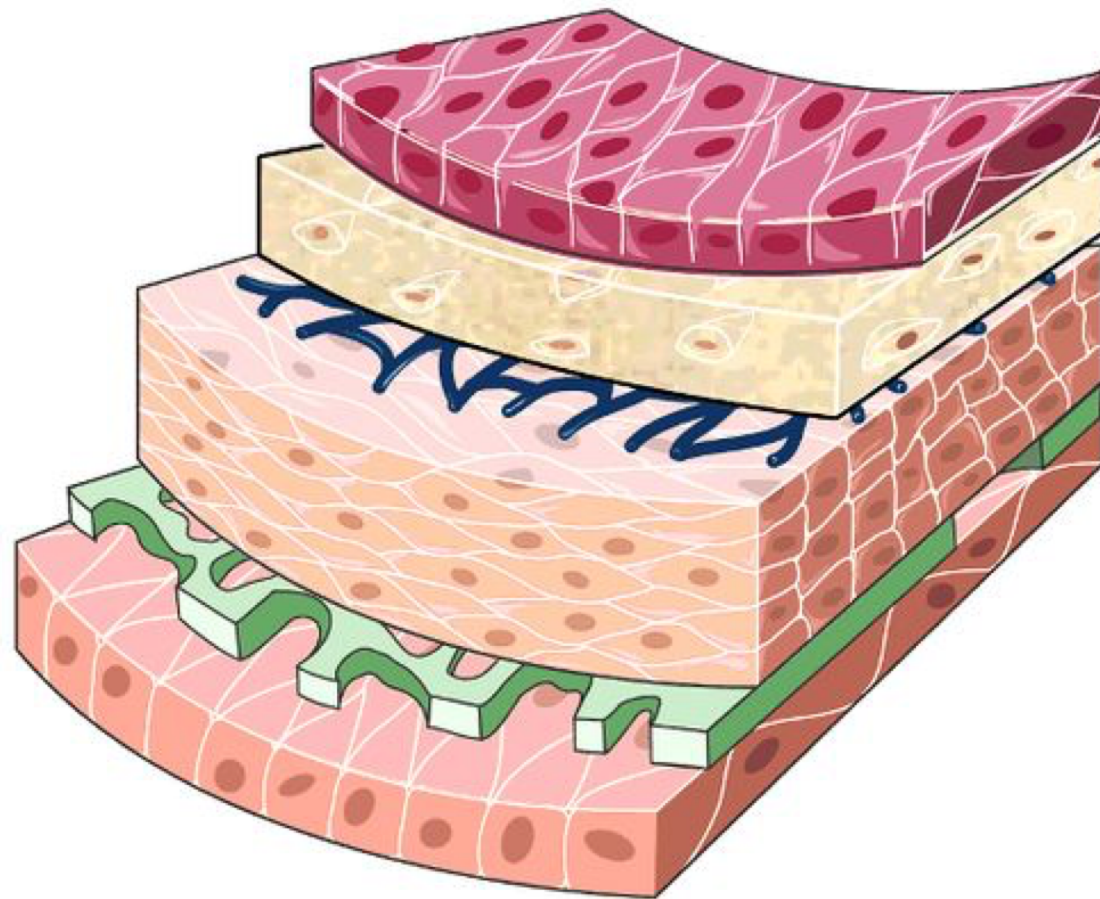
Muscle lisse

Lame élastique interne

Part of a cross-section of a muscular artery stained with the [Verhoeff-van Gieson stain](#).

Both the internal and external elastic laminae are very prominent, and very fine elastic fibers (black) can be seen in the yellow muscular tunica media. The collagen fibers of the tunica adventitia are stained red.



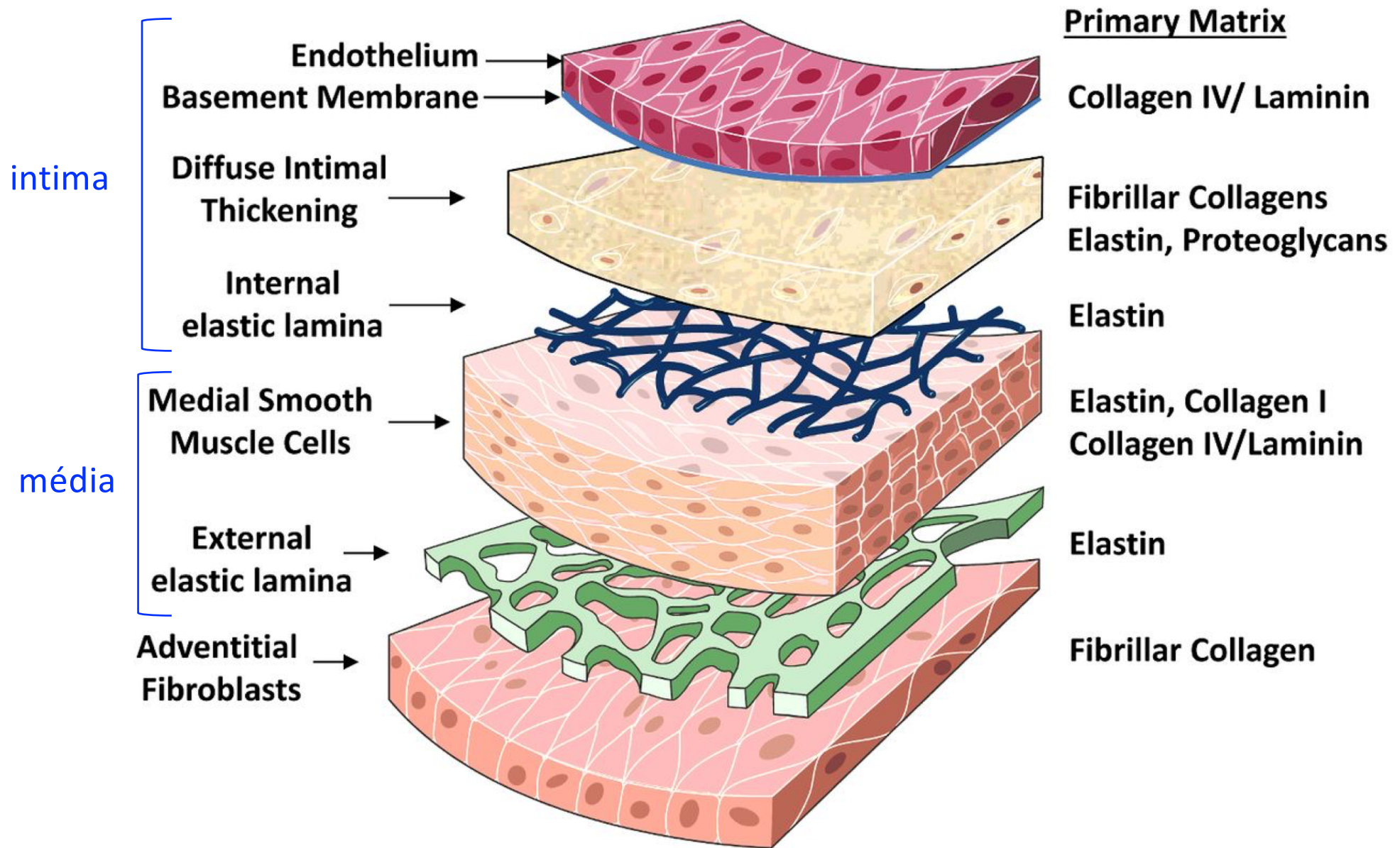


Intima

- endothélium
- membrane basale
- T.C. subendothélial
- lame élastique interne

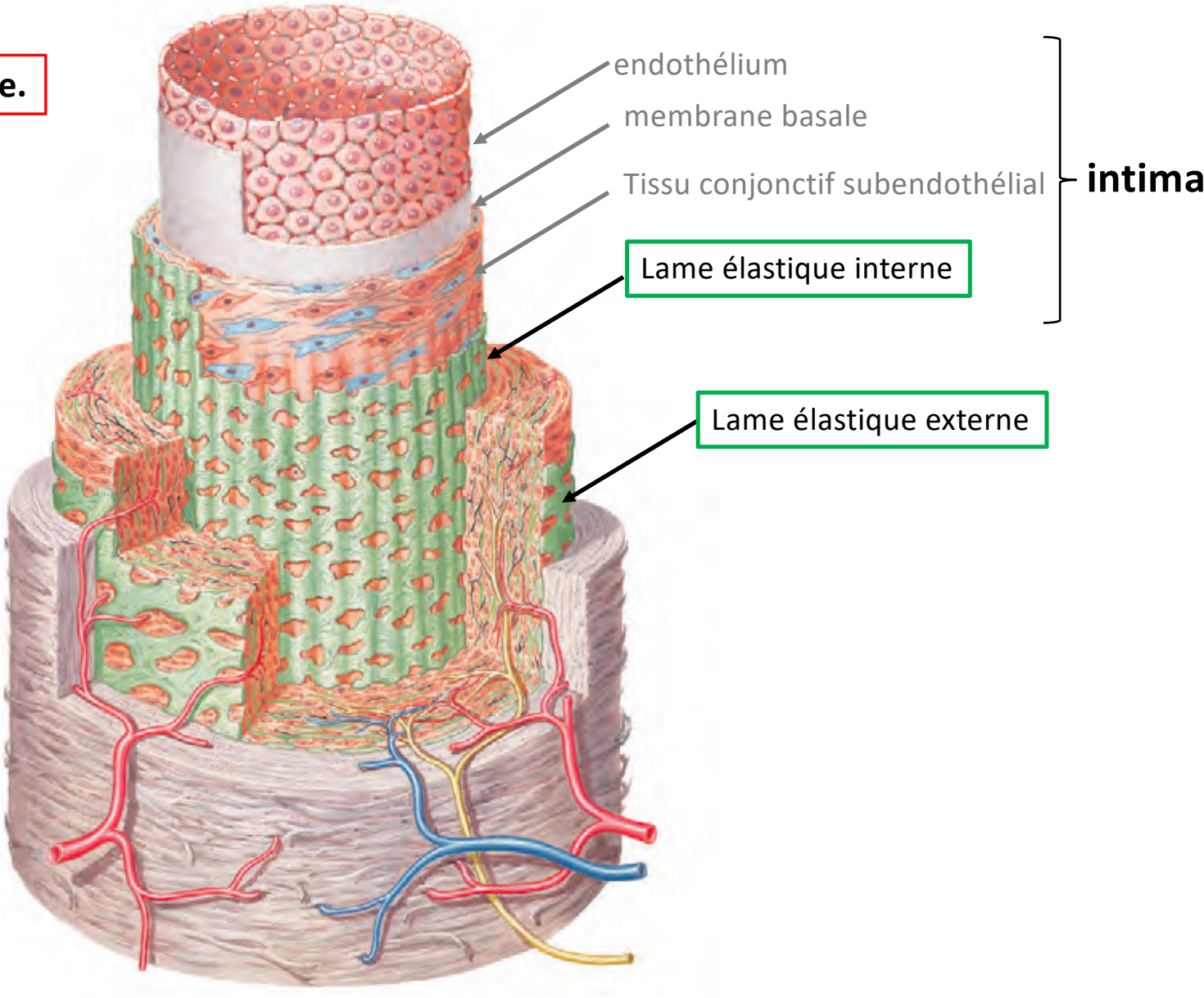
Media

Adventitia



Structure d'une artère coronaire.

Artère musculaire

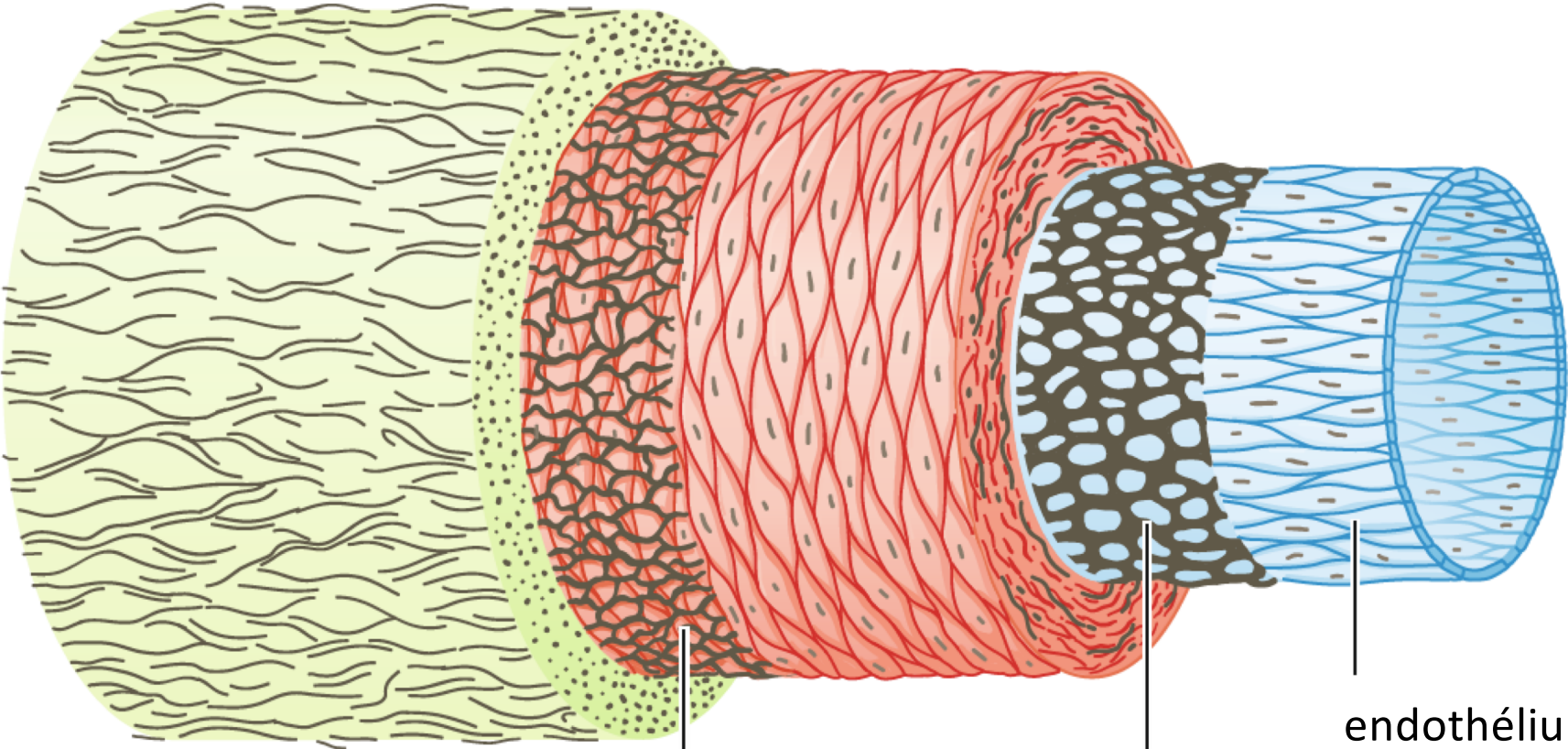


Artère musculaire

Adventitia

Media

Intima



Limitante élastique externe

Limitante élastique interne

endothélium