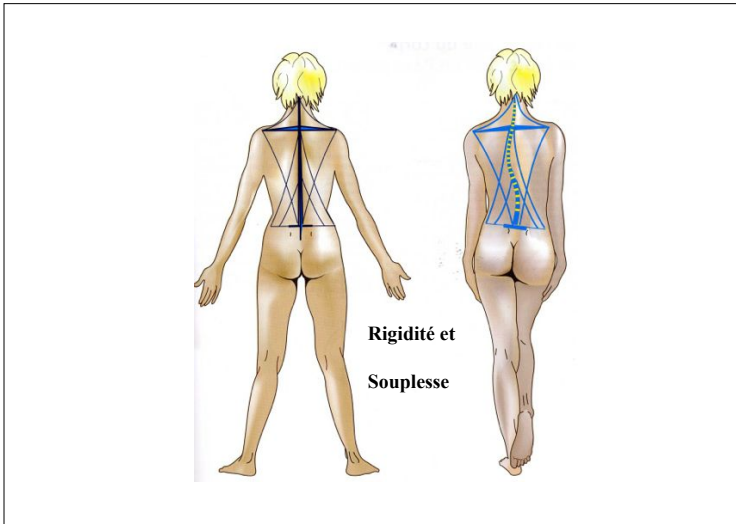
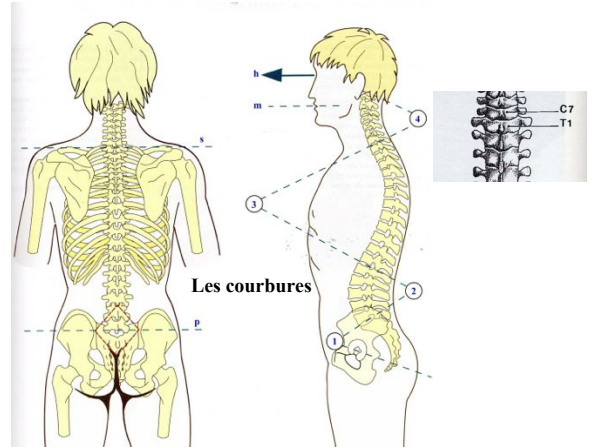
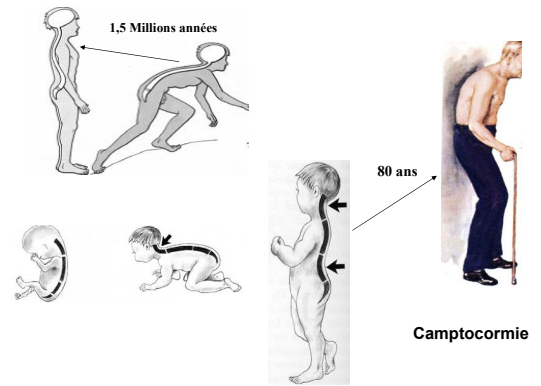


## Anatomie de la région cervico-thoracique

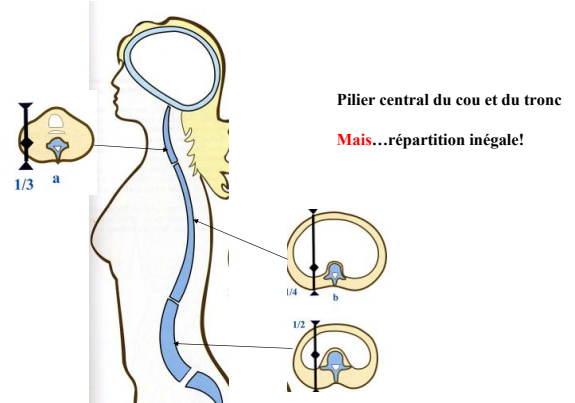
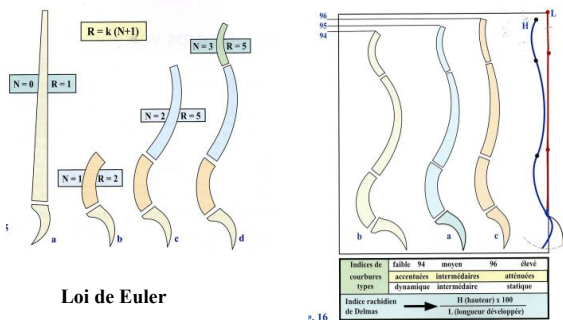
Pr Xavier MORANDI – CHU Rennes – Université Rennes 1



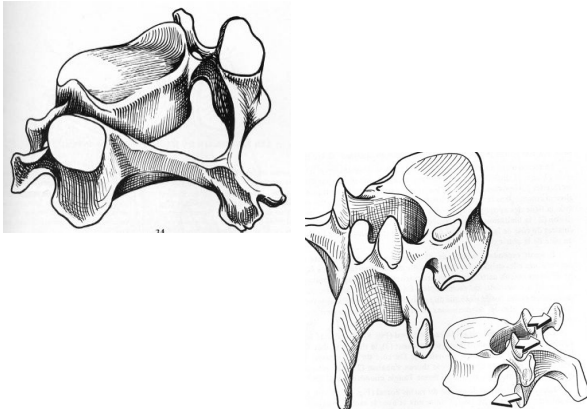
## Phylogénèse et ontogénèse – passage à la bipédie



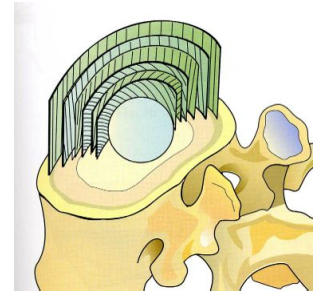
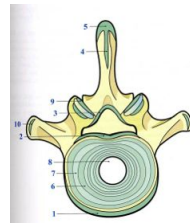
## Rôle et types de courbures



### Les vertèbres C7 et Th1

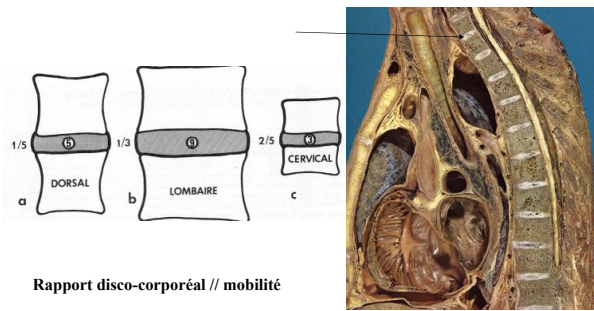


### Le disque intervertébral



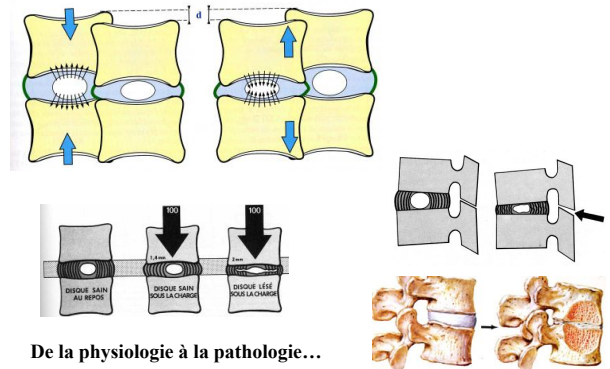
Nucleus pulposus

Annulus fibrosus



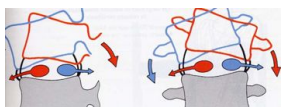
Rapport disco-corporel // mobilité

### La migration de l'eau

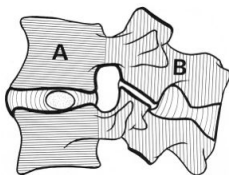


De la physiologie à la pathologie...

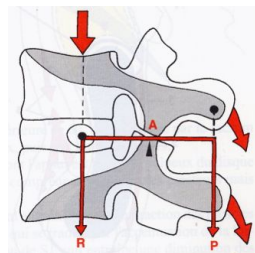
### Divisions fonctionnelles de la colonne vertébrale



Mouvements élémentaires du disque

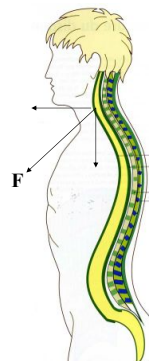


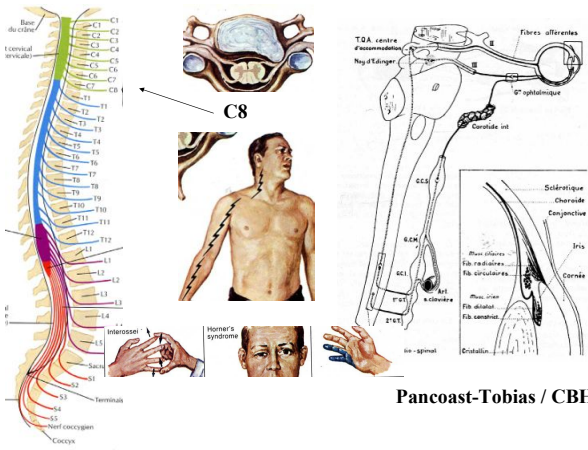
A- Pilier antérieur = rôle statique  
B- Pilier postérieur = rôle dynamique



Liaison fonctionnelle entre les 2 piliers-pédicules  
Amortissement direct et passif au niveau du disque  
Amortissement indirect et actif (muscles) au niveau de l'arc vertébral qui forme un levier.

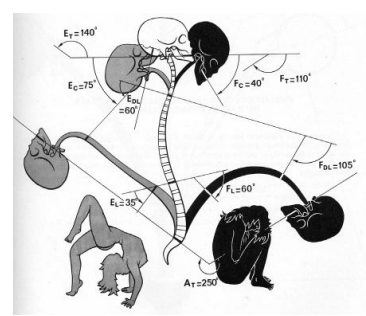
### Les éléments de liaison intervertébrale: ligaments passifs





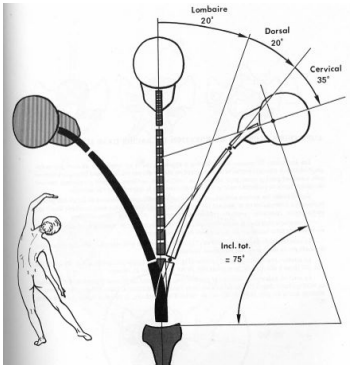
Pancoast-Tobias / CBH

**Amplitudes de la flexion-extension du rachis**

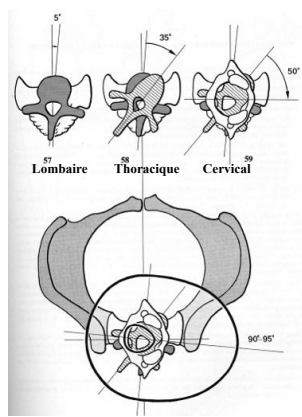


Flexion totale = 110°  
Extension totale = 140°

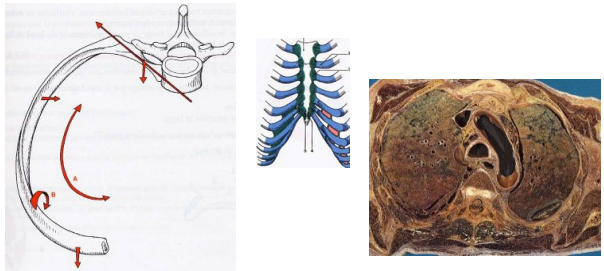
**Amplitudes d'inflexion latérale**



**Amplitudes de rotation**



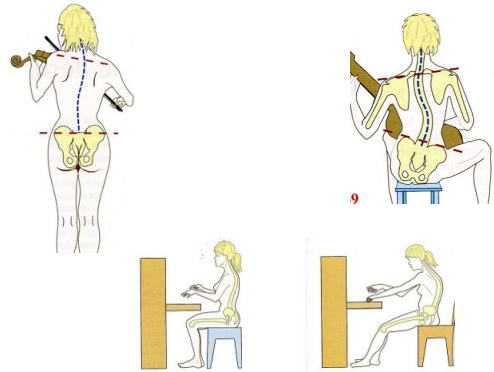
**Le rachis thoracique et le grill costal**



Coupe axiale en T3-T4

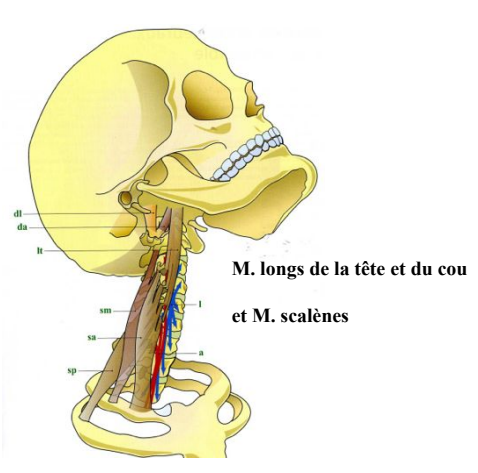
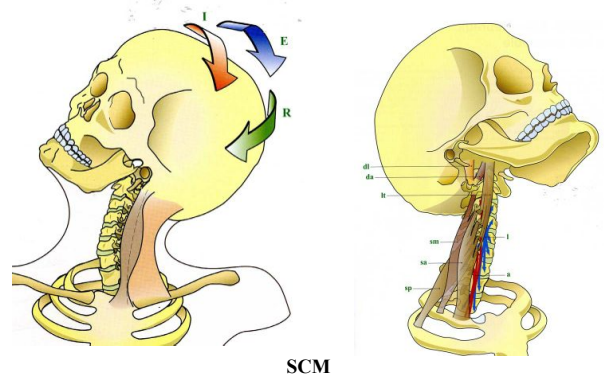
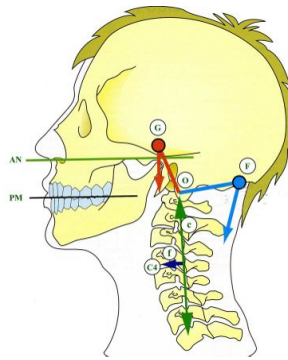
Articulations costo-vertébrales  
Fossettes costales supérieure et inférieure des CV  
Fossette costale transversaire

**Position assise et debout asymétrique des musiciens**

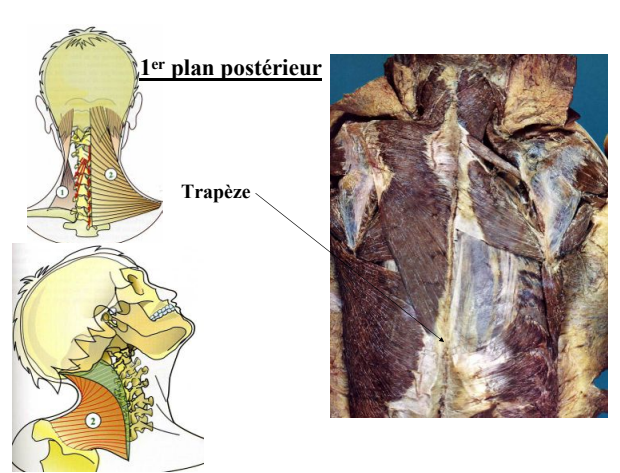




**Les muscles de la jonction cervico-thoracique**

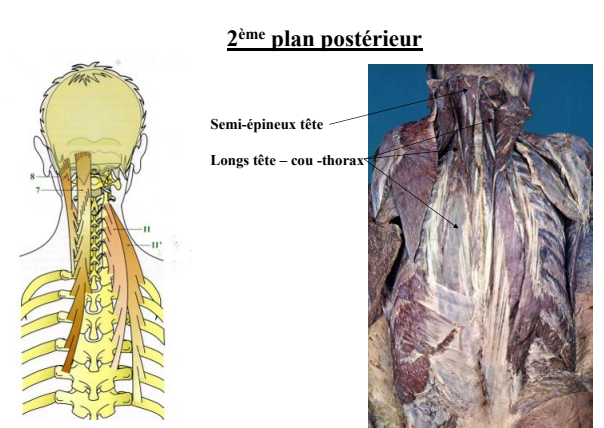


**M. longs de la tête et du cou  
et M. scalènes**



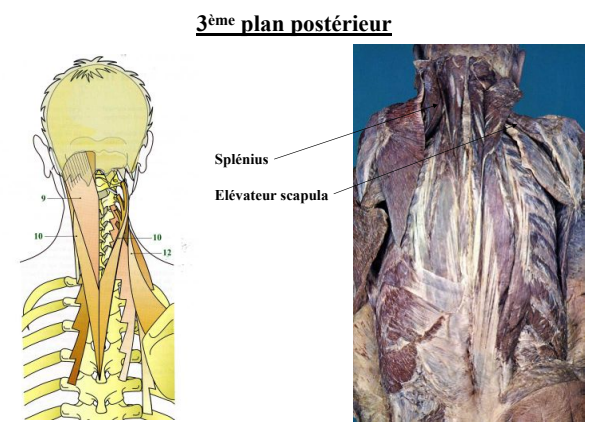
**1<sup>er</sup> plan postérieur**

**Trapèze**



**2<sup>ème</sup> plan postérieur**

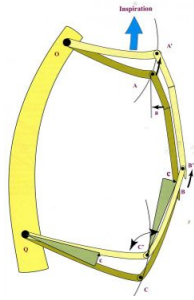
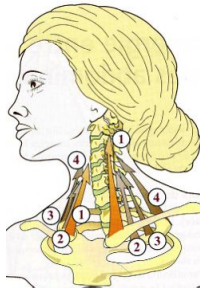
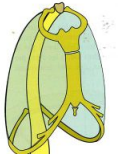
**Semi-épineux tête  
Longs tête - cou - thorax**



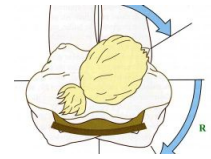
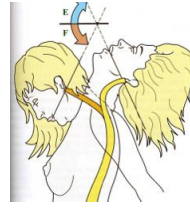
**3<sup>ème</sup> plan postérieur**

**Splénius  
Élévateur scapula**

**La JCT et les muscles respiratoires**



**Conclusions**



« Life is moving »

