

EVOLUTIONARY TRENDS IN PECTORAL GIRDLE

1) BASIC TRENDS

a. ANCESTRAL VERTEBRATES:

PECTORAL GIRDLE MOSTLY **DERMAL BONES**

b. DERIVED VERTEBRATES:

PECTORAL GIRDLE MOSTLY **REPLACEMENT BONES**

2) REASON FOR TRENDS

a. **DERMAL BONES** → WEAK SUPPORT
FOR APPENDAGE

1. SUPERFICIAL (OUTER BODY WALL) LOCATION
2. LOTS OF SPONGY BONE

b. **REPLACEMENT BONES** → STRONG SUPPORT
FOR APPENDAGE

1. DEEP IN BODY
2. LOTS OF COMPACT BONE