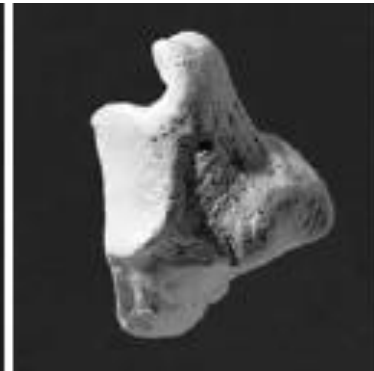
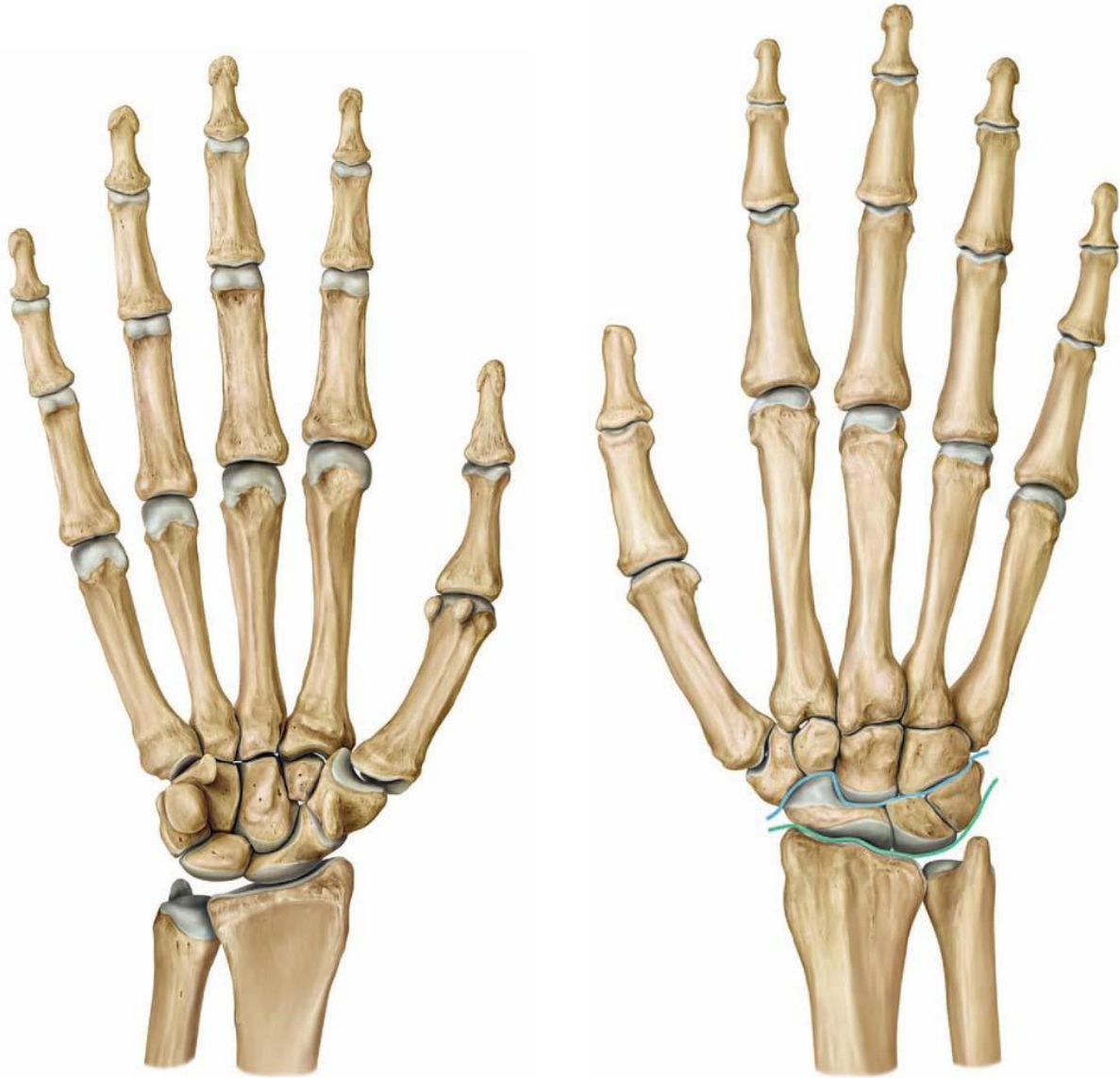


# Fine motor skills testing

Bi9100

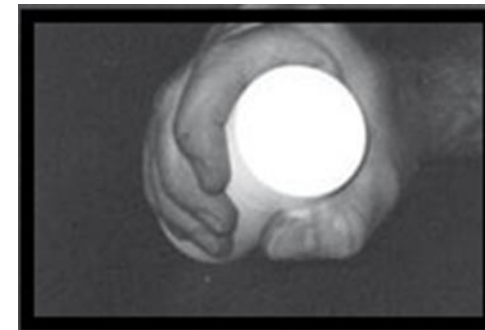
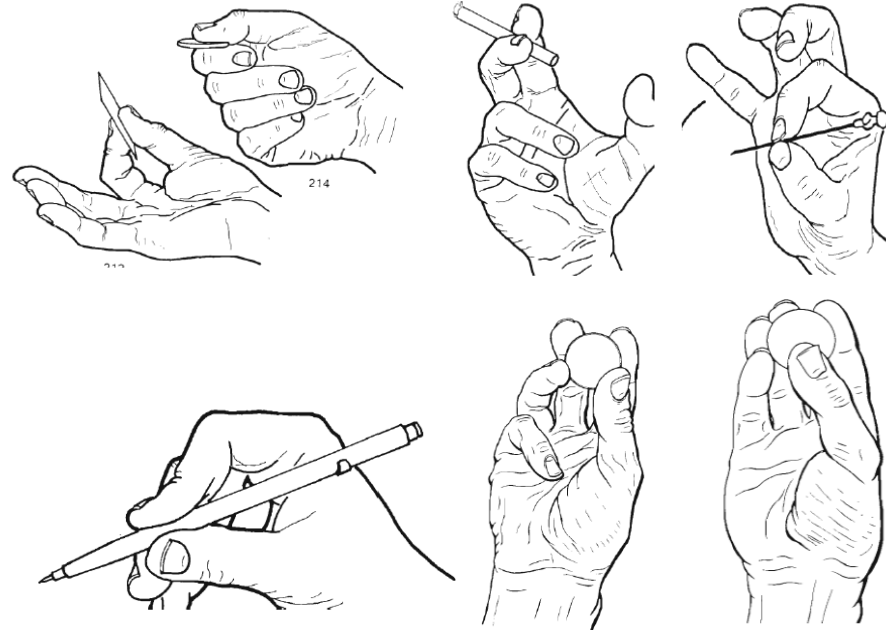
Ergonomics and Applied Anthropology

# The human hand – biological aspects



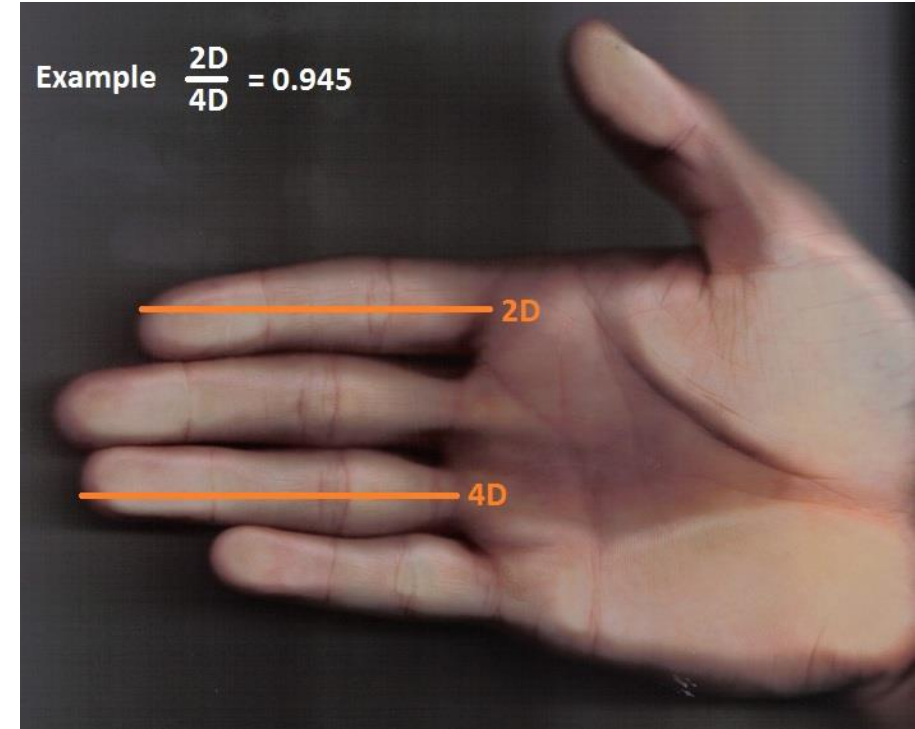
# The human hand – biological aspects

- Various types of grip
- Handgrip strength testing

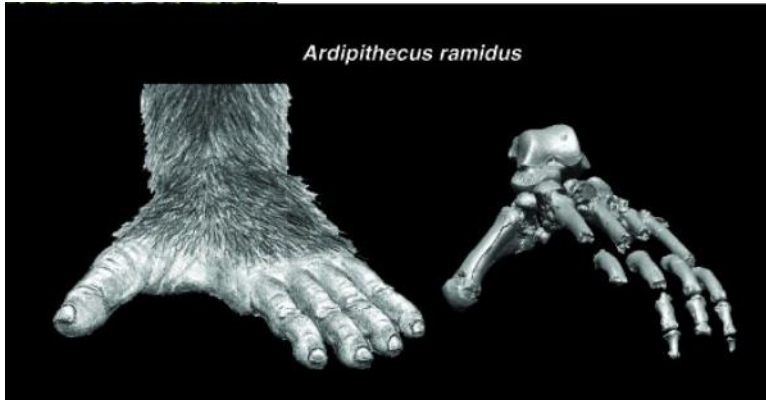


# The human hand – biological aspects

- Prenatal testosterone level markers
  - 2D:4D ratio
  - MPH
- Dermatoglyphs
- Correlation with body height
- Sexual dimorphism
- Hand-foot coevolution
- Manipulation or pleiotrophy?



# The human hand – evolutionary aspects



- Hand-eye coordination
- Tool-utilizing, manipulation, fabrication behavior
- Cognitive characteristics



# The human hand – cultural aspects

- Universally spread – handshake
- Showing the empty palm – defenselessness (in the majority of cultures)
- Various hand-gestures – specific meanings in different cultures
- Folklore – washing one's hands over a subject...
- The matter is out of his hands...



# The human hand – philosophical aspects

- Kant: „The hand is the window to the mind“
- Variety of motions, gripping, sense of touch – all affect the way we think
- Wilson



# The human hand – fine motor skills

- Complex/fine assembly jobs
- Typing
- Handcrafts...





# Tests

- O'Connor finger dexterity test



- Purdue Pegboard test

