

# History of Head Injury Treatment

# Chirurgia 1180

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# Roger of Salerno 13 C

1535 Berengario da Carpri

14 C Roger of Salerno

Composite view of Different Head Wounds

Compound skull Fracture

# *Vesalius* 1514-1560

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**De fabrica pub 1543 663 folio  
pages age 28**

**Master anatomist**

**Believed all previous  
descriptions of the body  
were incorrect**

**Debunks rete mirabile**

**Reversed ventricular fluid  
theory**

**Masterful promotion of his  
work**

**Publishes in Basel**

# Middle Ages 1543

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# Autopsy 1580

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**Mystery and Communalism of Barbers and Surgeons of London**

# Craniotomy at Home

16 Century



# Deathbed of Henri II July 10 1559

Subdural Haematoma from a penetrating wound sustained during a joust

AmbrosePare Vesalius

Catherinede Medici Diane de Poitiers

# First Hand Trephine 1639

Woodall's *The Surgeons Mate*-designed for one handed use

# Astley Paton Cooper 1768-1842

First description of dilatation of the  
pupil in brain compression

# Ancient Egyptians 2500BC

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# Intracranial Pressure

- causes decreased alertness
- decreased eye opening
- focal motor deficits
- elevated BP
- slowing of pulse
- altered respiration
- respiratory arrest

# Astute Clinicians

- 1745 Company of Surgeons est by Henry VIII
- Jean Louis Petit 1674-1750
  - Defined the lucid interval
  - Drowsiness some time after the injury was a sign of brain compression
- Percivall Pott 1713-1788 St Barts
  - Advocated a surgical approach

Burr hole

# ...from external violence

- *Head injuries...*

*are accompanied with more uncertainty, creates more anxiety and more hazard to the patient, than almost any other ill, to which the human frame is liable from external violence*

*Percival Pott 1760*



## Benjamin Bell 1749-1806

- 1785 *A System of Surgery*
- Indication for surgery should be based on the neurological examination of the patient
- awareness of this important neurosurgical principle

## Johnathan Hutchinson 1828-1913

- 1867 in the same year as Lister wrote on antiseptis he noted
- Lucid interval often present
- The dilated pupil is on the side of the clot

# Paul Broca

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- Born 1824 near Bordeaux
- Brilliant student and appointed surgeon to Bicetre Hospital
- April 12 1861  
Leborgne admitted under his care with gangrene

# Sir William Macewen

- Born 22 June 1848 Isle of Bute
- Youngest of 12 children
- Attributed his dexterity to time spent using tools in the shipyard
- Performed first planned brain operation on a dead boy
  - ♦ Operation consent
  - ♦ Autopsy granted

# Macewen's "Egg" 1876

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# Function of the Frontal Lobe

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1848 Phineas Gage  
No autopsy

# 3D CT of Paankenamun

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# Cushing 1900 Op Art

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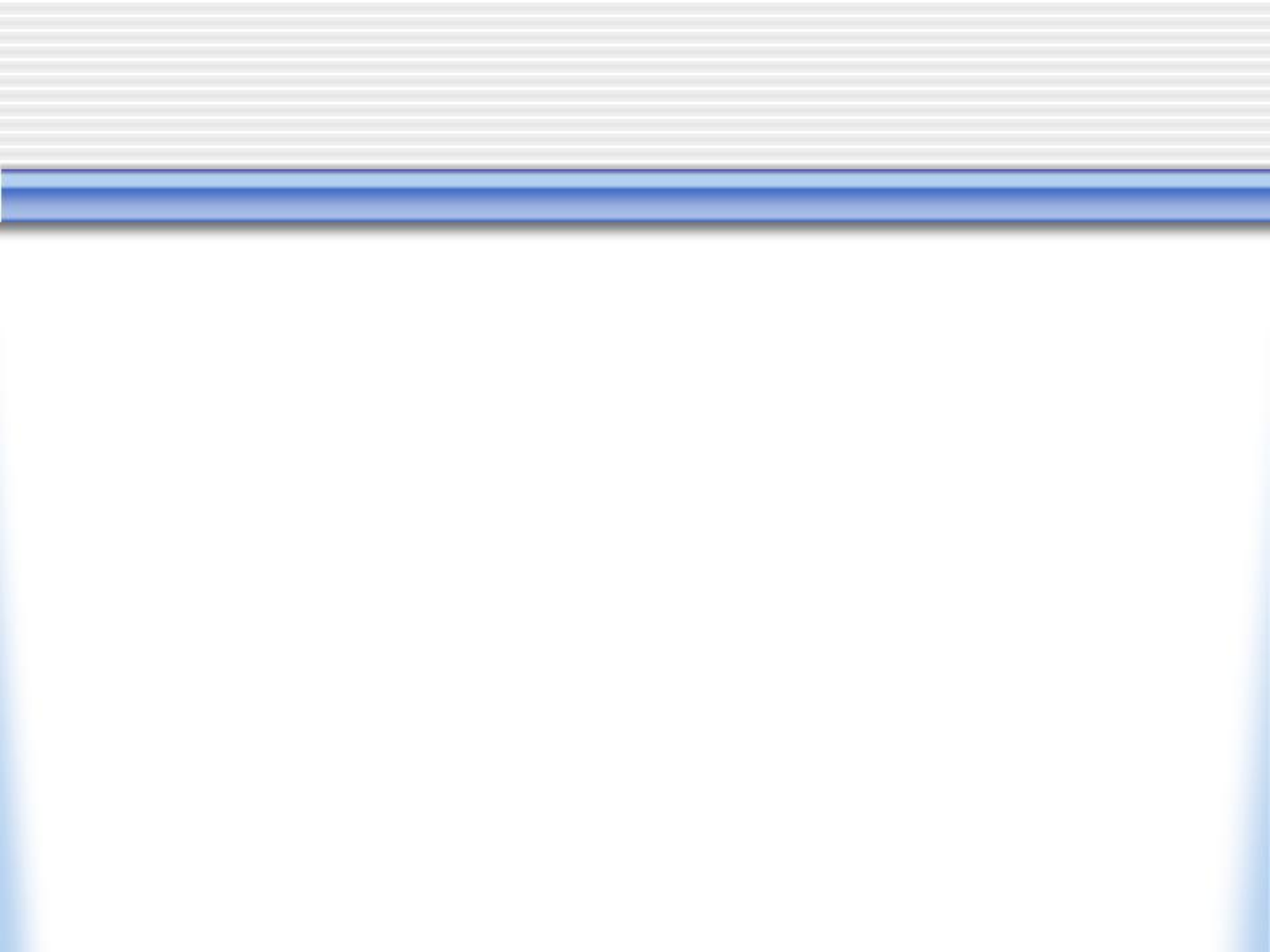






# 3-D CT Angiogram

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# Herophilus and Erasistratus 300BC

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**First to dissect beasts and humans**

**Located intelligence in the ventricles of the brain**

**Vivisections of condemned criminals**

**Alexandria was the centre of learning**

The new Library of Alexandria

# Egyptian and Babylonian Medicine

Edwin Smith papyrus

**Oldest surgical text 1700BC**

A papyrus scroll 15 feet long, 1 foot wide  
48 cases

# Incan Era

536 trepanned skulls found in Peru 400BC-200AD

# Greek Medicine Hippocrates 460-370

Describes use of the trephine  
Avoid the midline  
Cool the tip with water  
Convulsions occur if the brain is cut



# Luke the Evangelist

First Icon Painter

Patron of doctors

# Galen 129-210

Cervical injury can affect the arm  
Hemi cord syndrome  
Elevation of fractures  
Removal of bone from brain  
Use of trephine-do not violate the dura