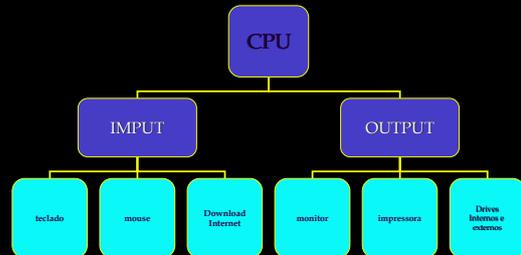


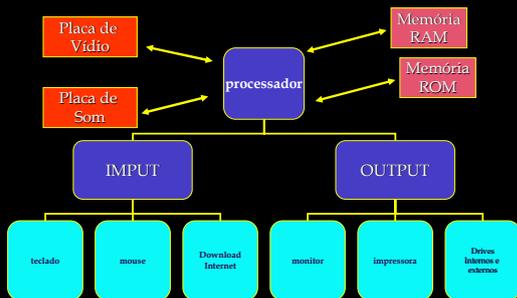
Organização e Divisão do Sistema Nervoso

Prof. A. Carlos
Centro de Imagens
e Física Médica - FMRP

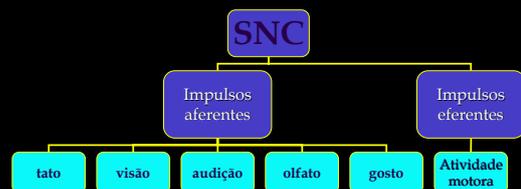
Analogia SN x computador



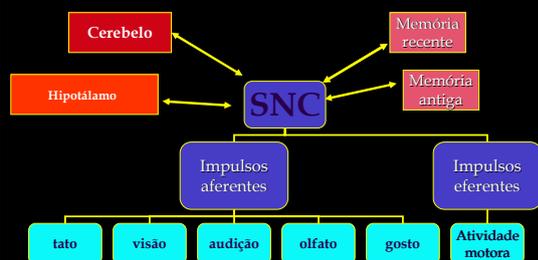
Analogia SN x computador



Analogia SN x computador



Analogia SN x computador

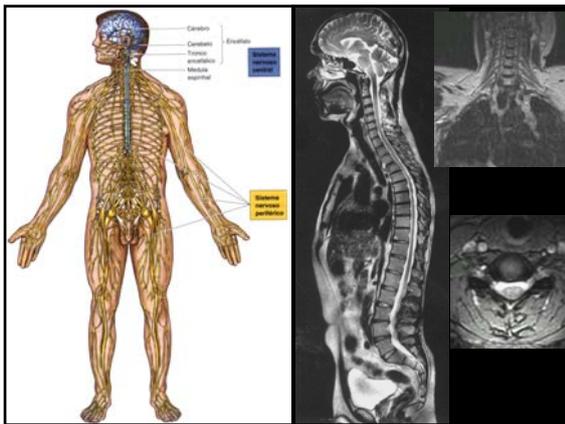
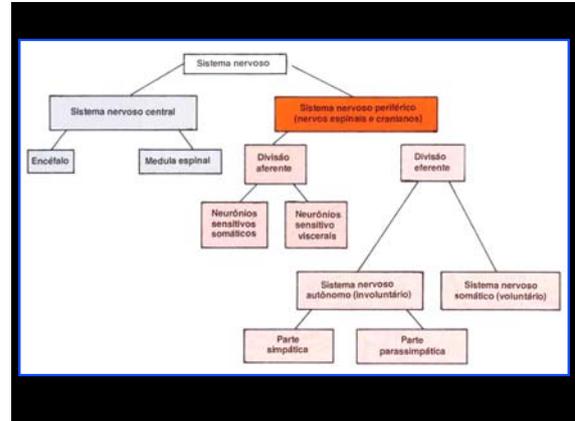


Organização básica do SN

- Sistema nervoso central (SNC)
- Sistema nervoso periférico (SNP)

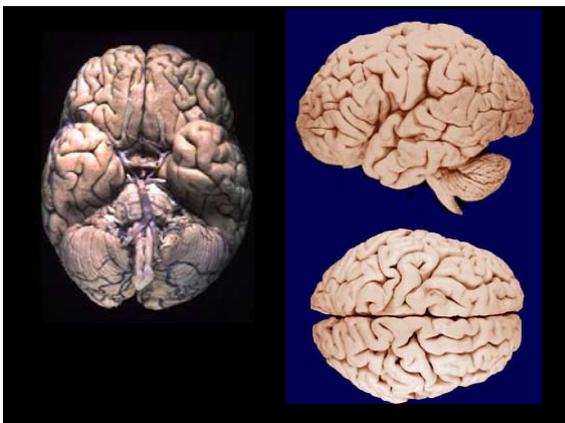
Organização básica do SN

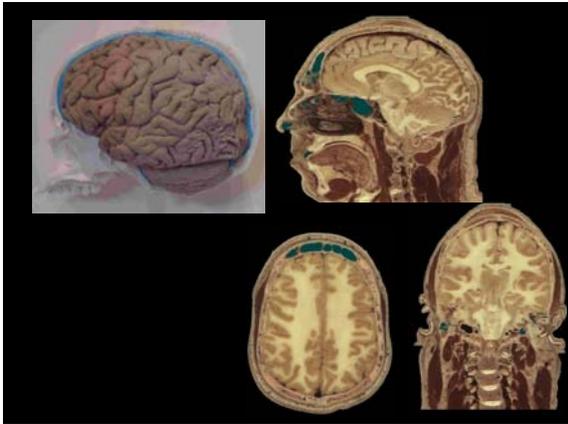
- Sistema nervoso central (SNC)
 - ✓ Encéfalo
 - ✓ Medula Espinal
(centros integradores e controladores + transmissão)
- Sistema nervoso periférico (SNP) - *transmissão*
 - ✓ Componente aferente (sensitivo) e eferente (motor)
 - ✓ **Divisão somática:** relacionada ao ambiente externo
 - ✓ **Divisão autonômica:** relacionada ao ambiente interno do corpo



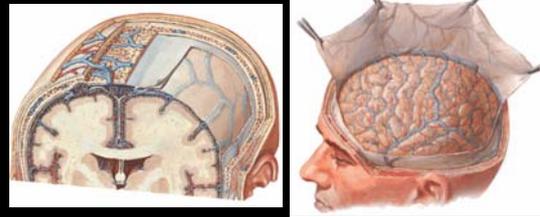
SNC

- Encéfalo
 - ✓ Cérebro (telencéfalo e diencéfalo)
 - ✓ Tronco cerebral
 - ✓ Cerebelo
- Medula espinal



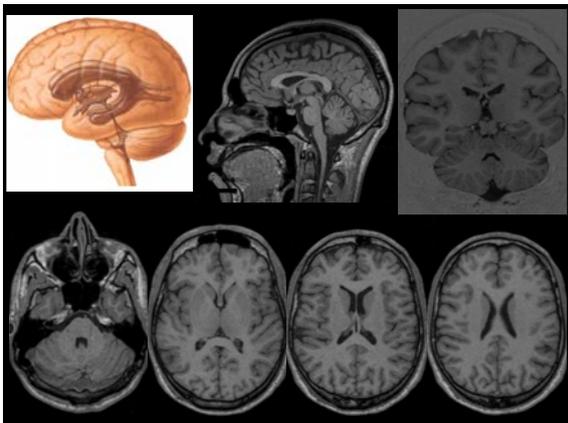
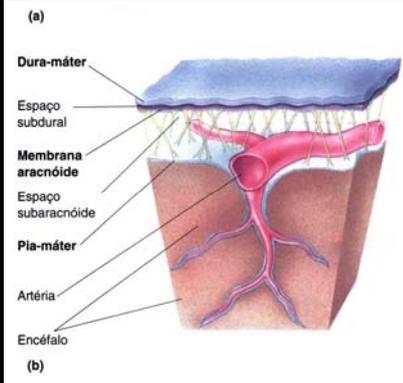


Meninges

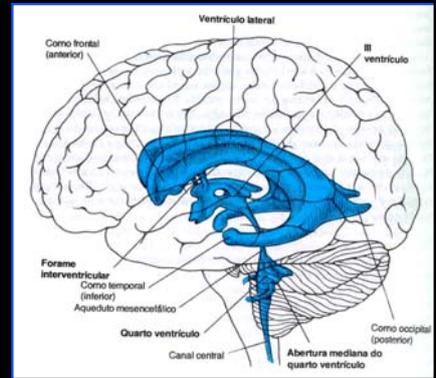


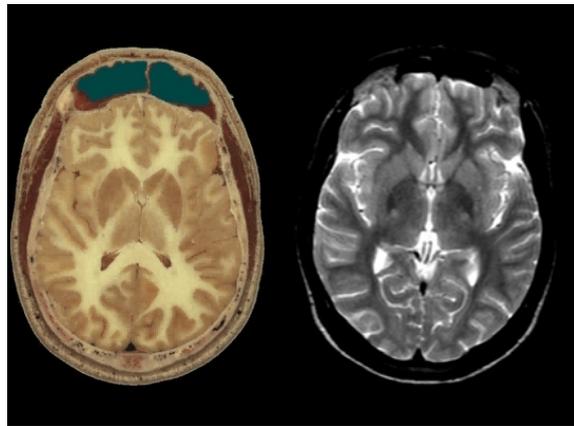
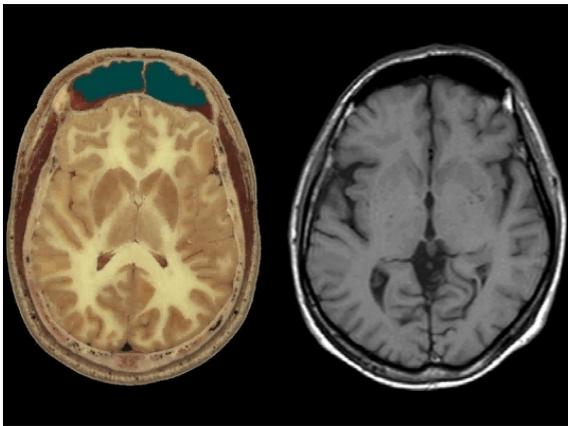
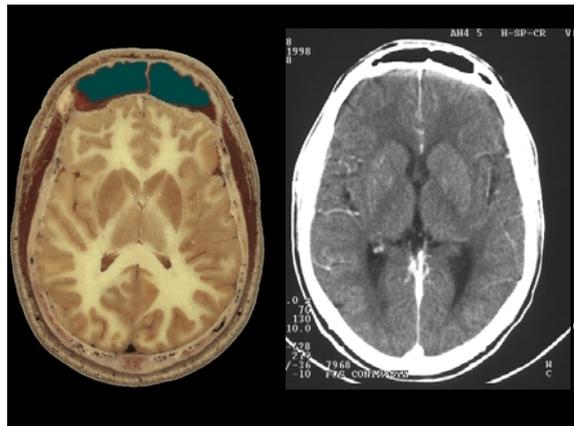
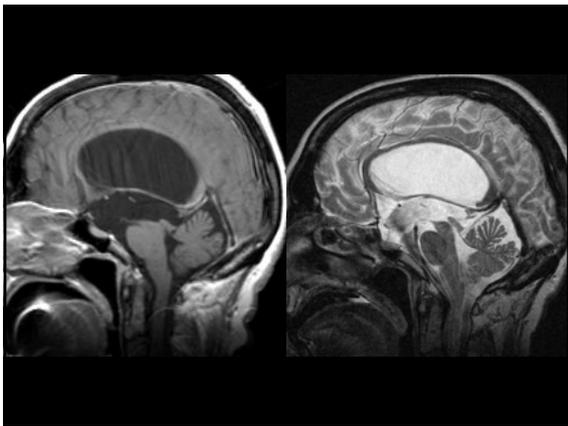
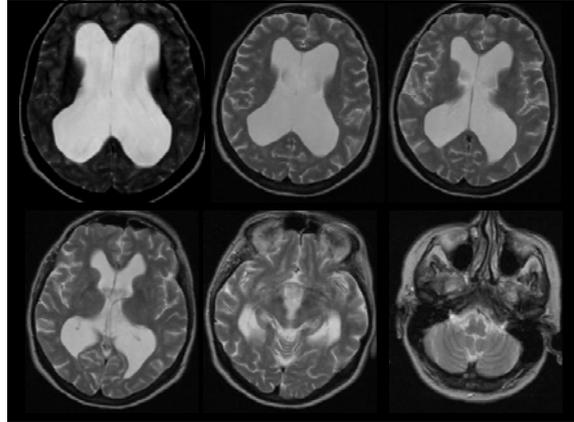
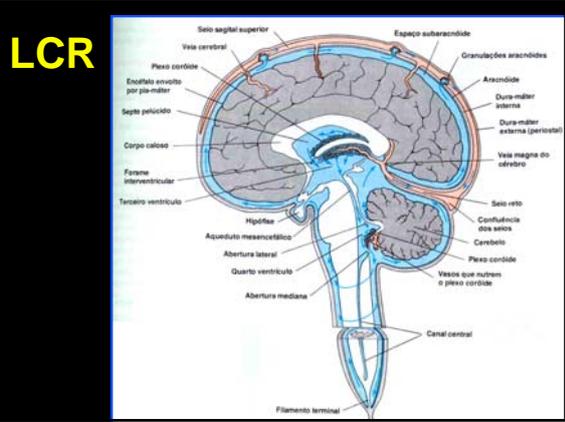
- 3 camadas de tecido conjuntivo que envolvem o SNC
 - ✓ Dura-máter
 - ✓ Aracnóide
 - ✓ Pia-máter

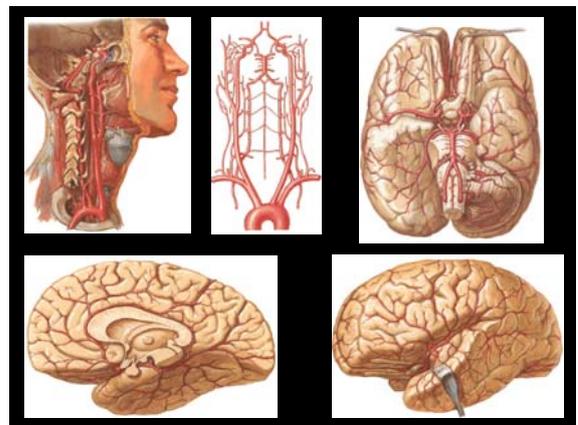
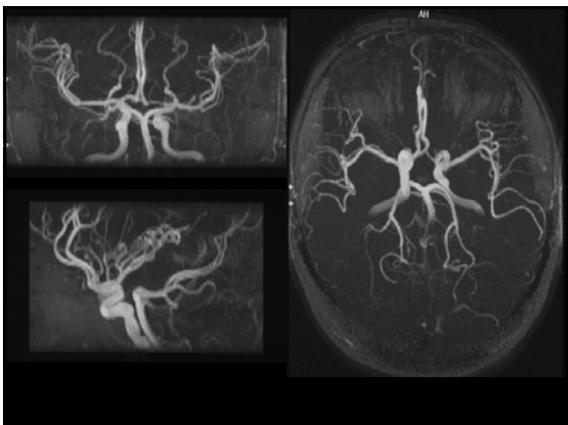
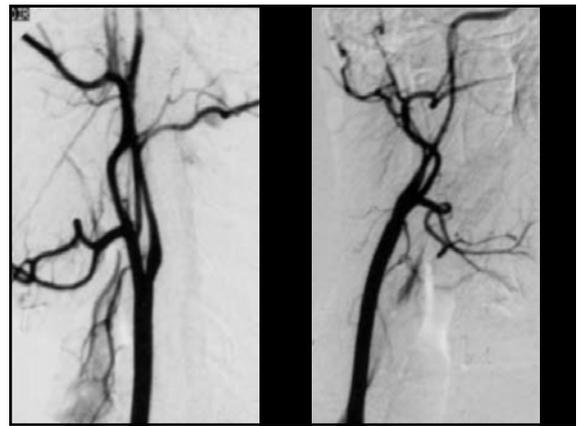
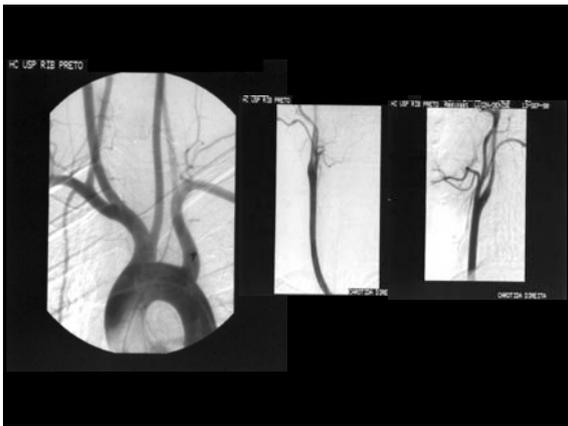
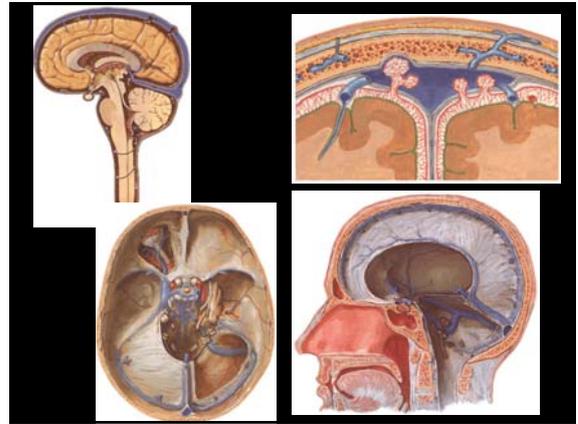
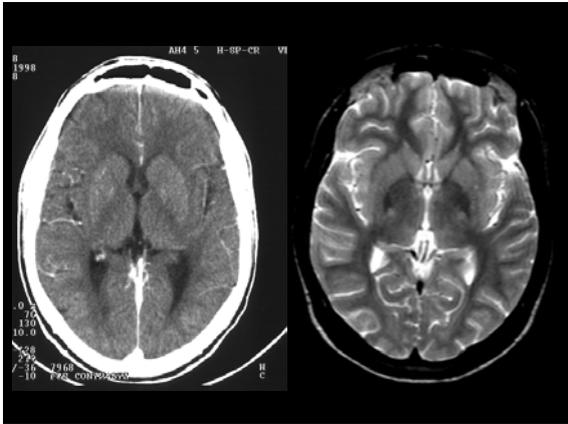
Meninges

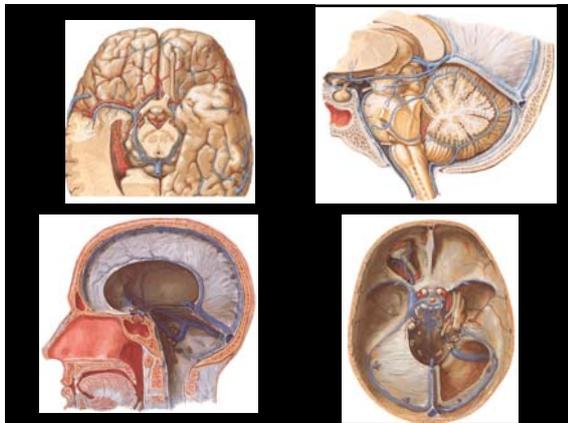


Ventrículos encefálicos









Organização básica do SN

- Sistema nervoso central (SNC)
 - ✓ Encéfalo
 - Tronco cerebral: substância reticular ascendente, centros controladores de nervos cranianos: respiração, coração, movimentos faciais, oculares, sensibilidade facial, audição, equilíbrio...



Organização básica do SN

- Sistema nervoso central (SNC)
 - ✓ Encéfalo
 - Tronco cerebral
 - Cerebelo: equilíbrio e coordenação da movimentação de braços e corpo, tônus...



Organização básica do SN

- Sistema nervoso central (SNC)
 - ✓ Encéfalo
 - Tronco cerebral
 - Cerebelo
 - Diencefalo
 - Hipotálamo: controle de funções vegetativas (metabolismo hormonal, eletrolítico, cardio-respiratório...)
 - Tálamo: primeira integração da sensibilidade



Organização básica do SN

- Sistema nervoso central (SNC)
 - ✓ Encéfalo
 - Tronco cerebral
 - Cerebelo
 - Hipotálamo
 - Diencefalo
 - Telencefalo: vida social, planejamento, integração e coordenação, memória...

