Lecture: Autoregulation of CBF (Numbers)		
blood flow through the	Normal CBF:	50 to 65 ml /100 grams of brain tissue / minute.
	ZBF	= 750 to 900 ml/min for entire brain
od fl Jgh	0) (= 15% of the resting cardiac output.
	Ischemia	below 18 to 20 ml / 100 g / minute
a ÷	Tissue death	below 8 to 10 ml / 100 g / minute.
Normal CPP		= 70 - 90 mmHg
		• CPP = MAP - ICP
70 % increase in arterial PCO2		doubles the cerebral blood flow
		 dilate blood vessels up to 3.5
The rate of utilization of oxygen by the		3.5 (± 0.2) ml of oxygen / 100 grams of brain tissue/minute
brain tissue		
~ !	normal value PO2	= 35 to 40 mm Hg
P02	increase cerebral blood flow	below about 30 mmHg
_	Brain function becomes deranged	below 20 mmHg
Cerebral blood flow is auto regulated		between arterial pressure limits of 60 and 140 (or 150) mm
		Hg.
cerebral perfusion is determined by blood		Outside the range of 60 to 150 mmHg
pressure alone without autoregulation.		
Normal ICP		ranges from 1 to 15 mm Hg '
		(but other sources give ranges like 8 to 18 mm Hg).
Cushing reflex		ICP > 33 mmHg
Number of capillaries and rate of blood		four times
flow are about greater in the gray		
matter than the white matter.		
	CSF Volume	150 ml
	Rate of production	500 ml/d
CSF		
	Lumbar CSF pressure	70-180 mm hg
	205 -1	= 112 mm (normal average)
	CSF absorption stops	When CSF pressure below 68 mm
	Osmotio prossuro	actual to that of places
	Osmotic pressure Sodium ion concentration	equal to that of plasma.
	Chloride ion	equal to that of plasma. about 15 percent greater than in plasma.
	Potassium ion	approximately 40 percent less than in plasma.
	Glucose	about 30 percent less than in plasma.
	brain weight	In air =1400 gm,
	Drain Weight	In CSF =50gm
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