

A yellow banner with a 3D effect, featuring a central rectangular panel and two triangular flaps on the left and right sides.

基底节

A yellow banner with a 3D effect, featuring a central rectangular panel and two vertical flaps on the left and right sides.

Basal Ganglia

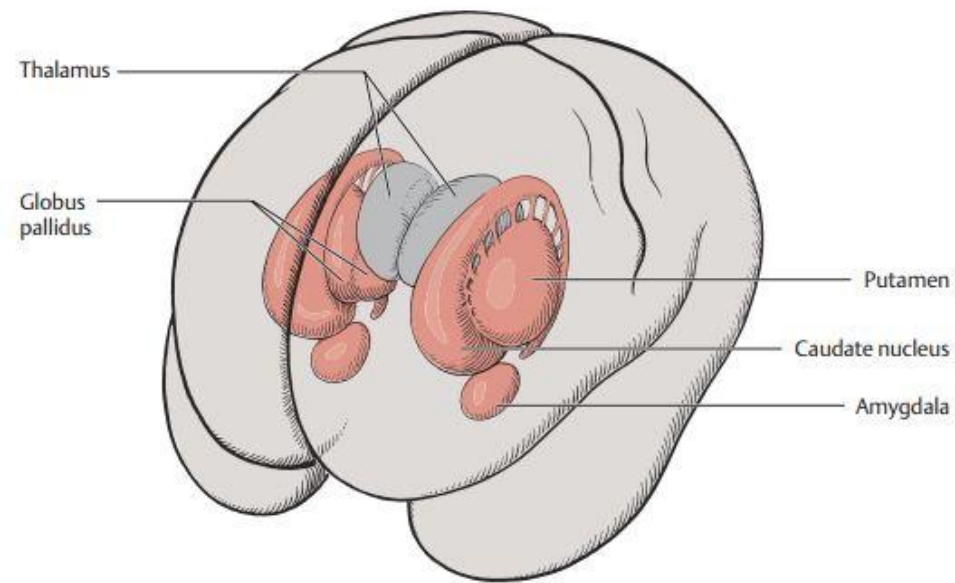
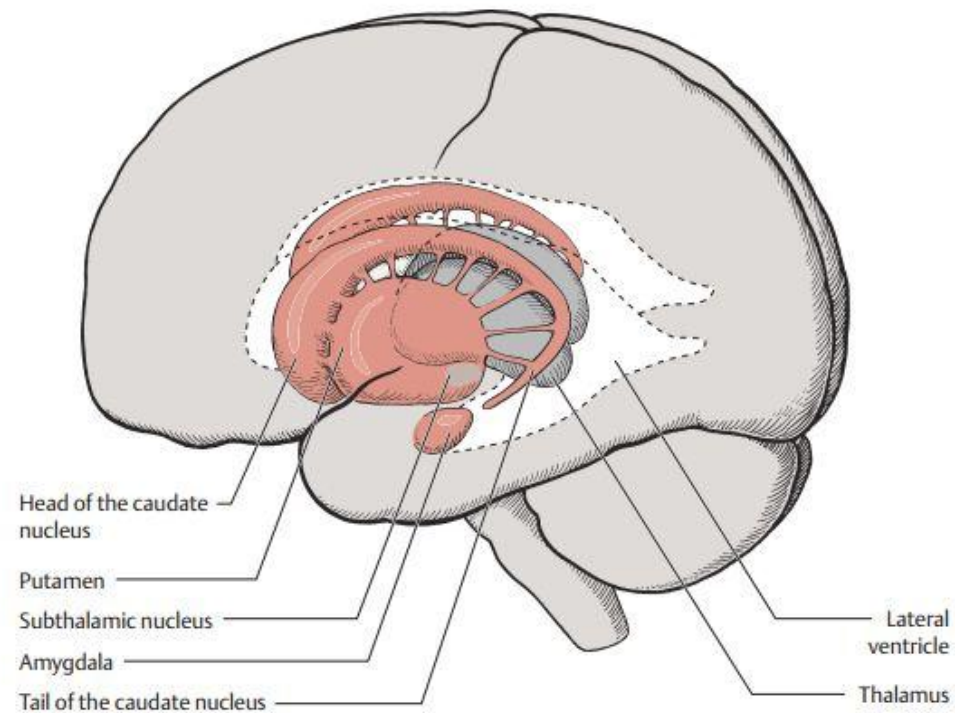


Fig. 8.1 Topographical relationships of the basal ganglia (in red)



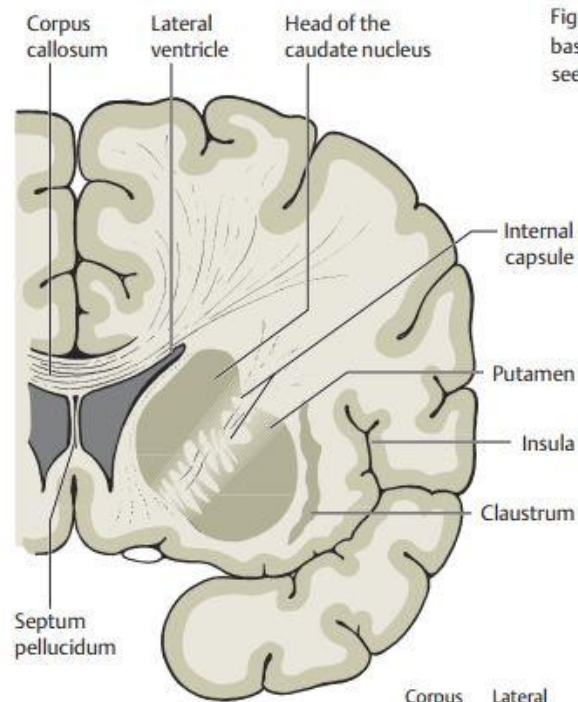


Fig. 8.5 **Coronal section 1** through the basal ganglia (for planes of section, see Figs. 8.3 and 8.4)

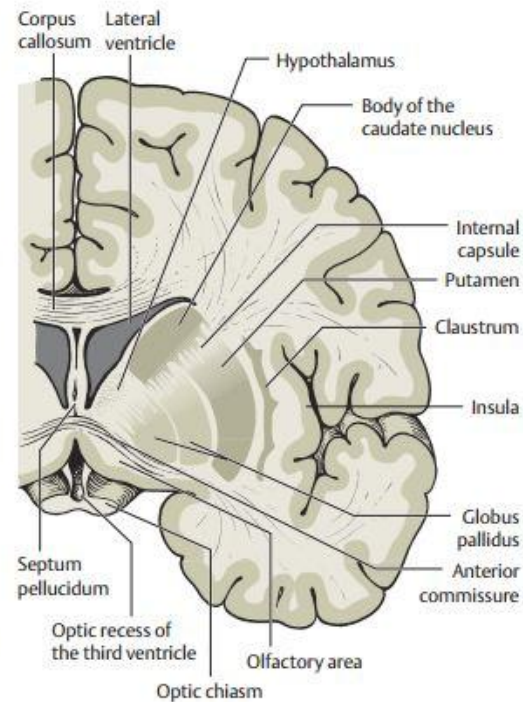


Fig. 8.6 **Coronal section 2** through the basal ganglia (for planes of section, see Figs. 8.3 and 8.4)

# 基底核 basal nuclei

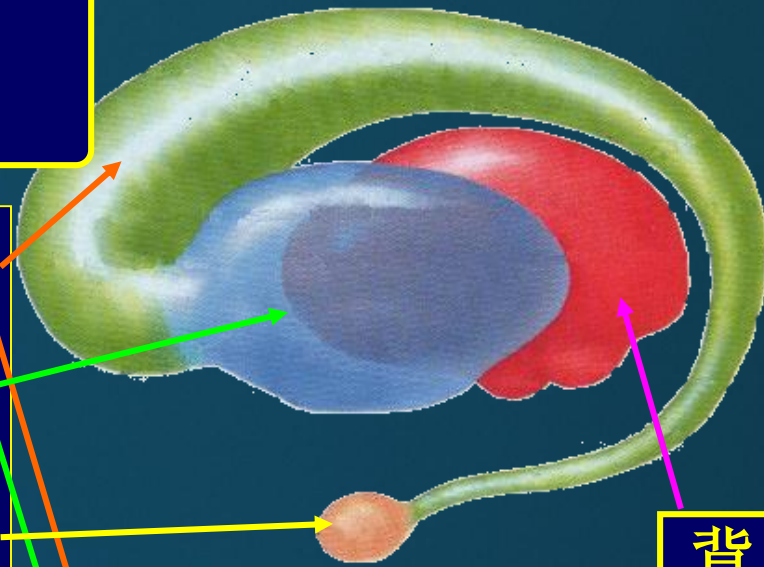
尾状核 caudate nucleus

豆状核 lentiform nucleus

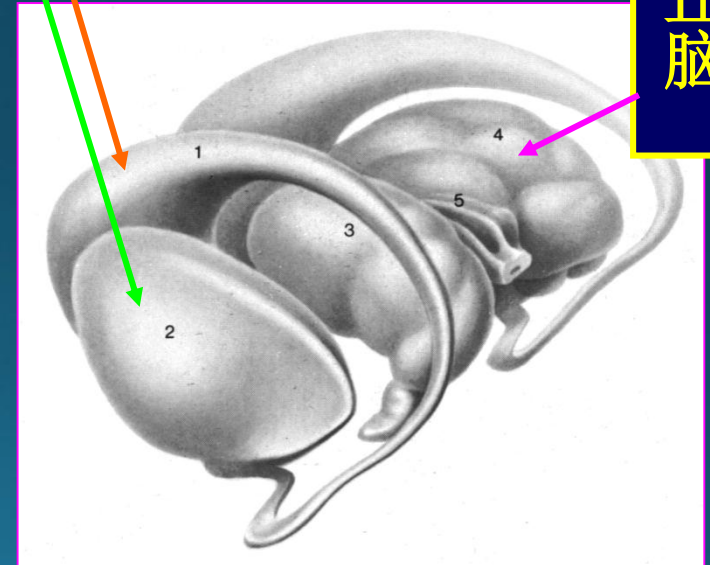
(苍白球+壳)

杏仁体 amygdaloid body

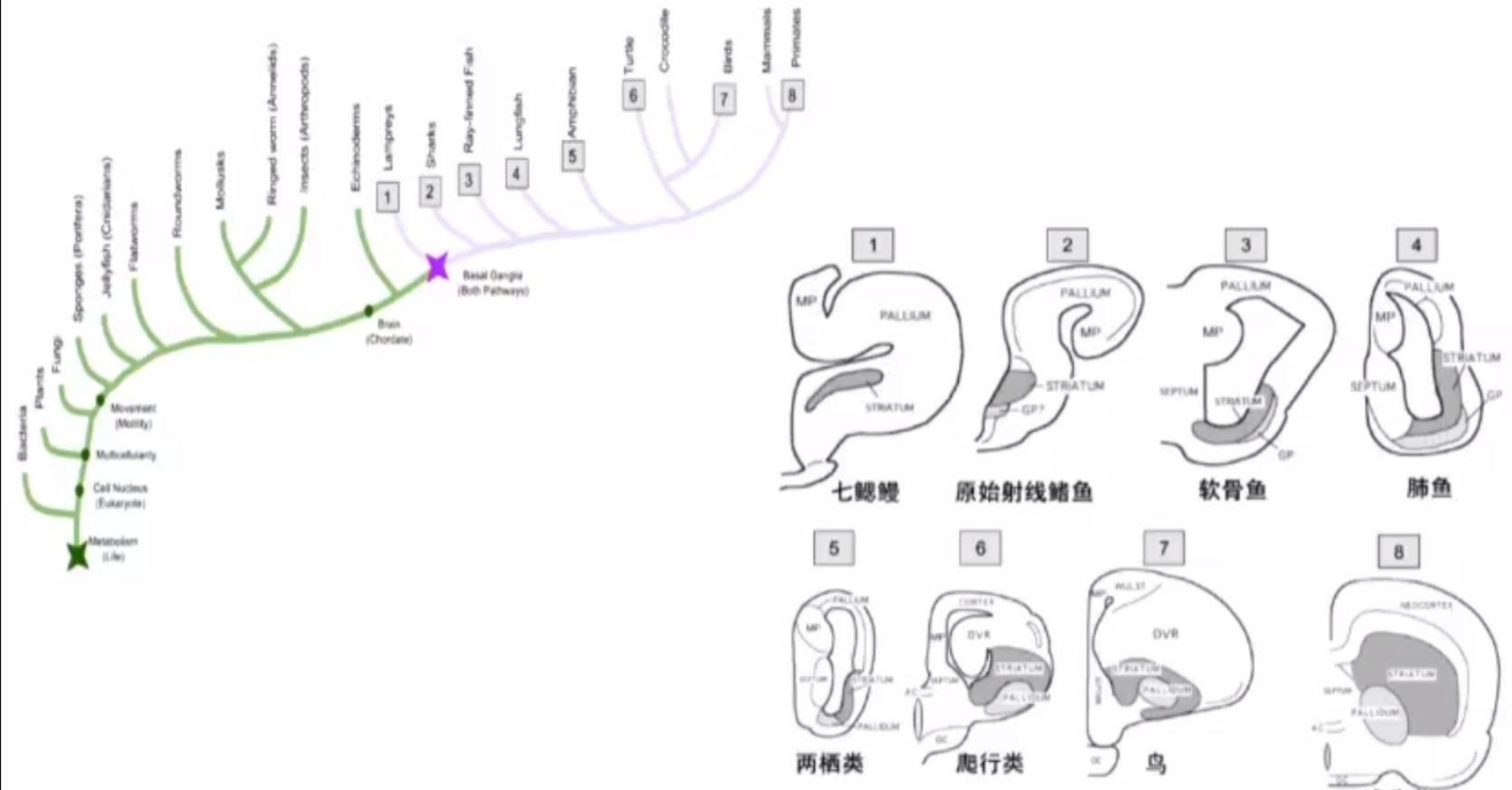
纹状体=尾状核+豆状核;  
新纹状体=尾状核+壳;  
旧纹状体=苍白球。



背侧丘脑



# 进化



# 运动控制区域的演变

脊髓&网状结构



苍白球（旧纹状体）



尾状核和壳核（新纹状体）



锥体束

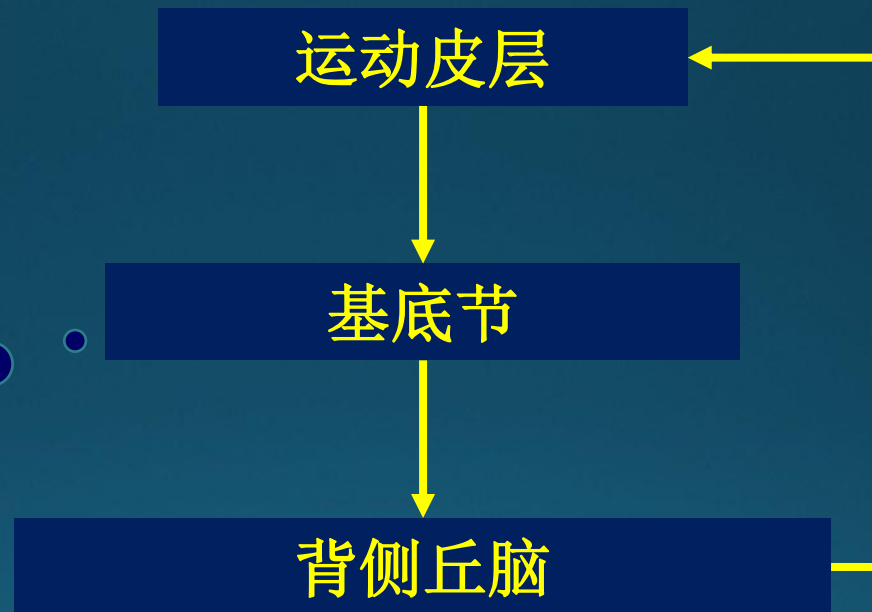
底丘脑  
红核  
黑质

端脑

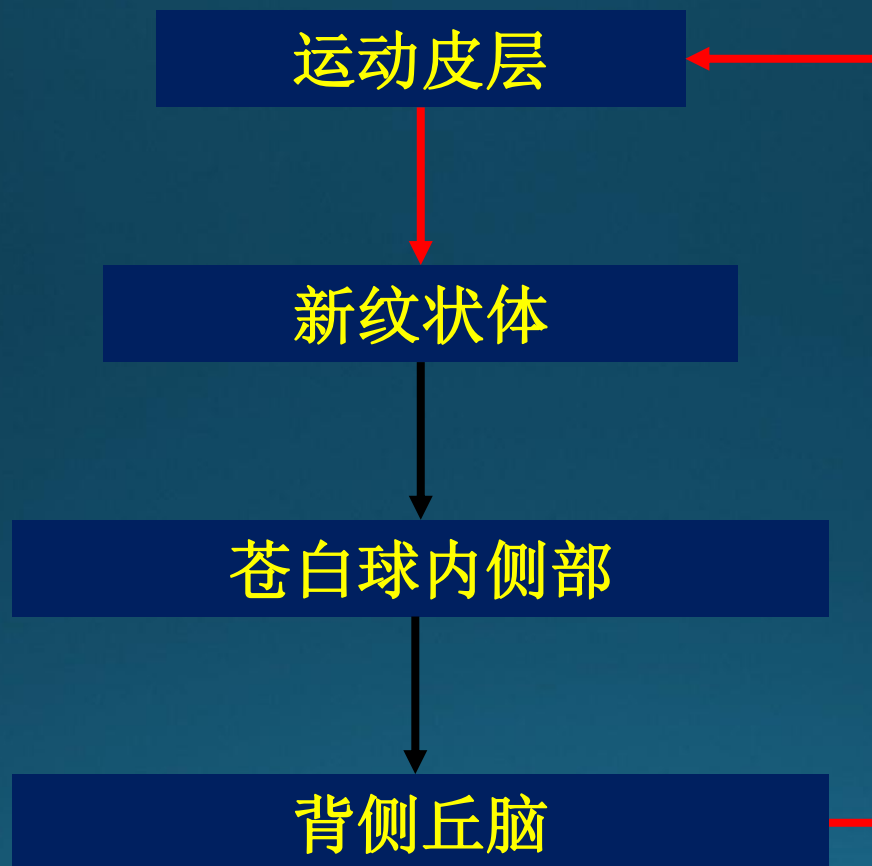


# 基底节对运动的控制

直接通路  
间接通路  
超直接通路



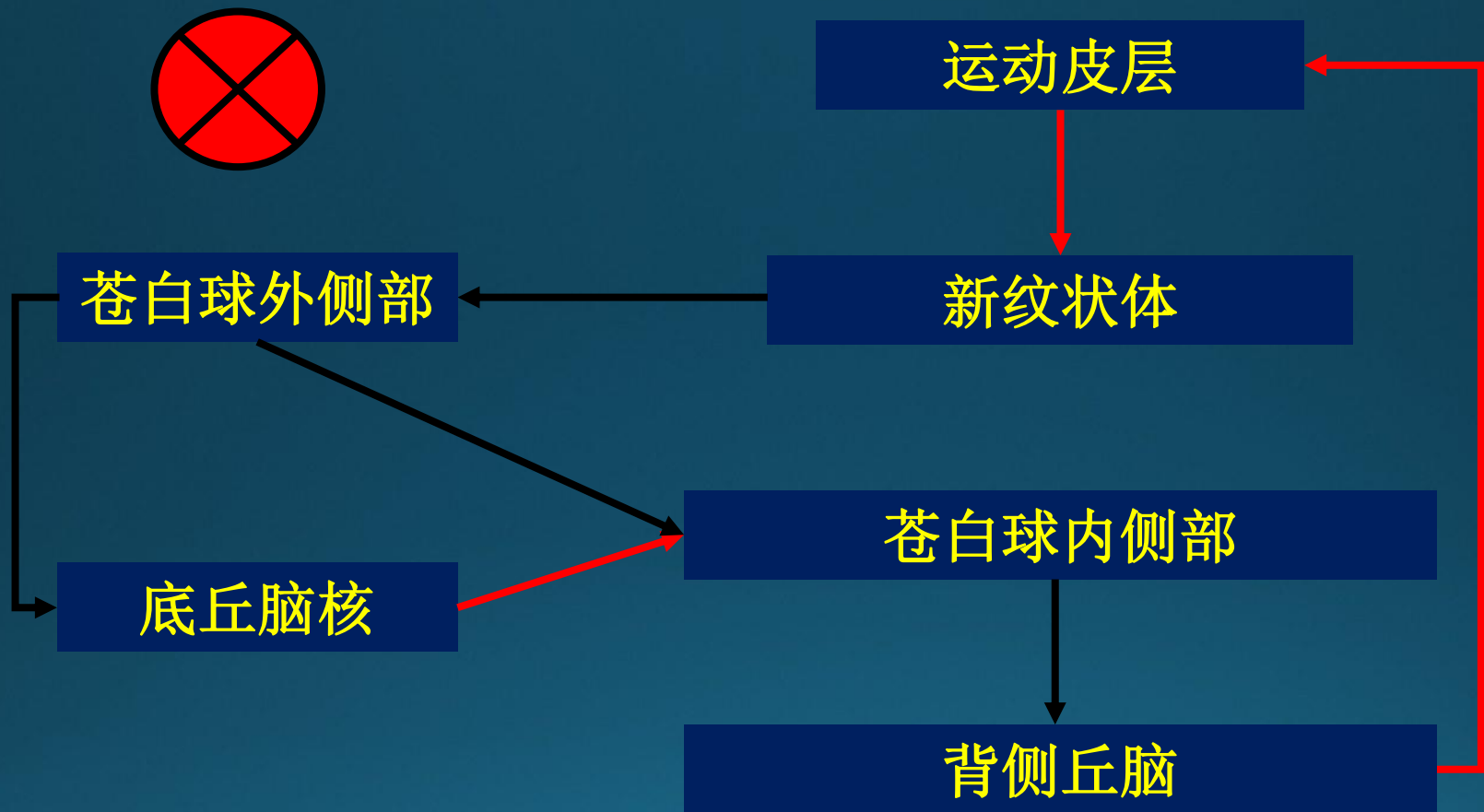
# 直接通路



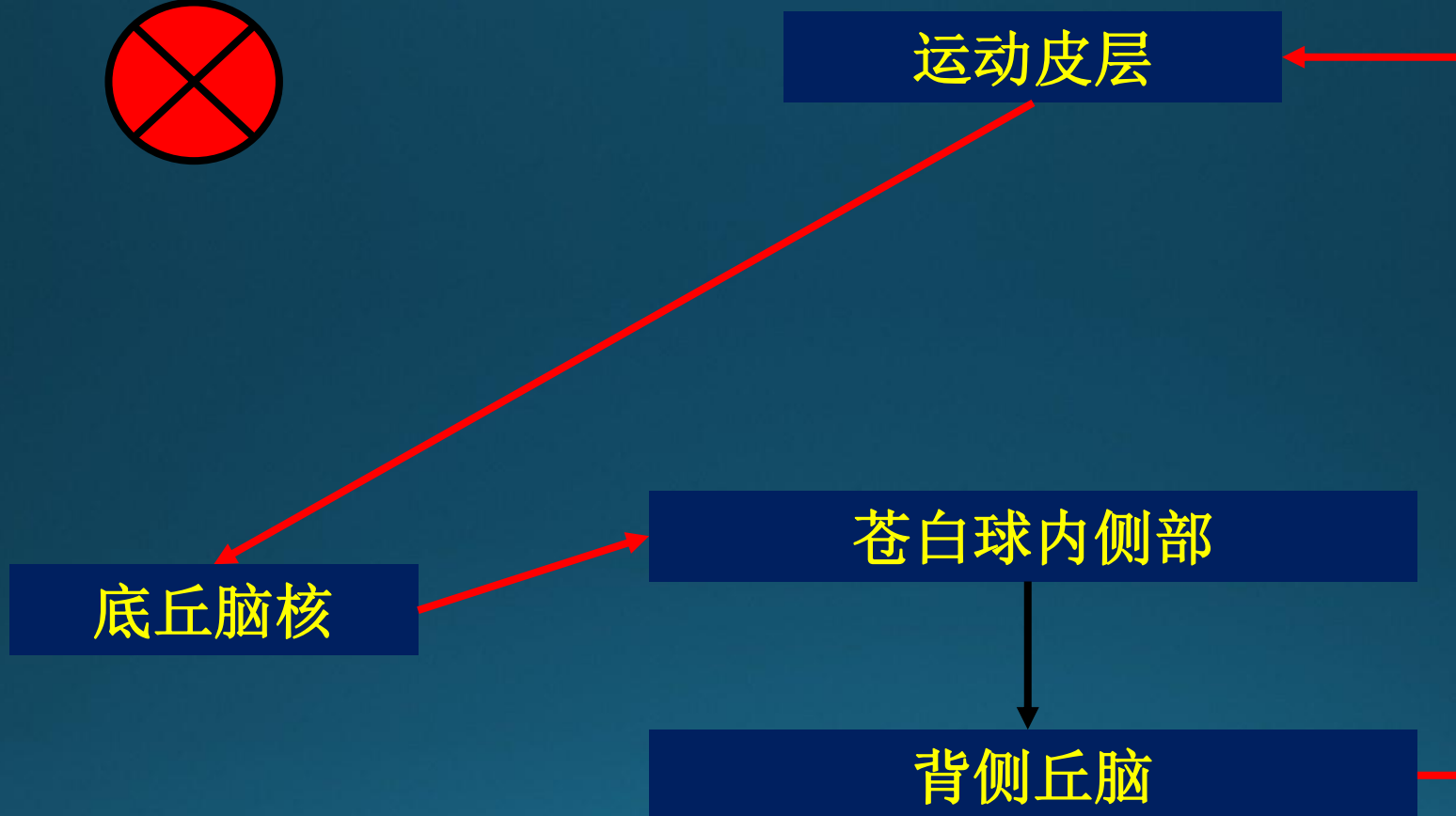
黑色：抑制  
红色：兴奋



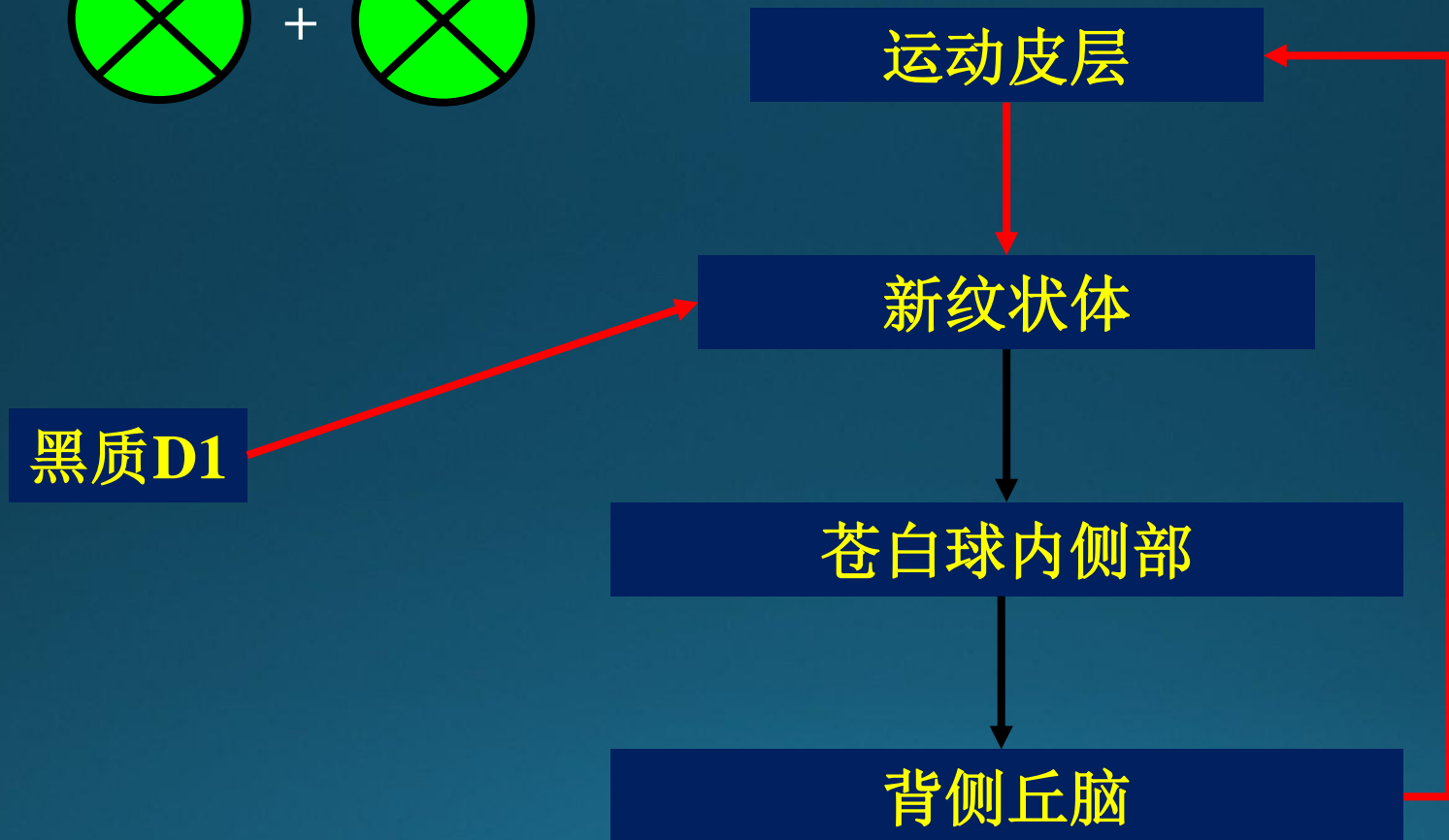
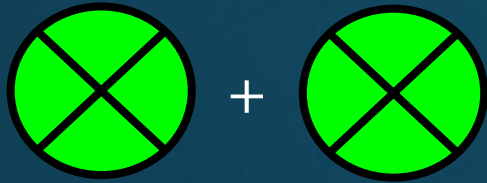
# 间接通路



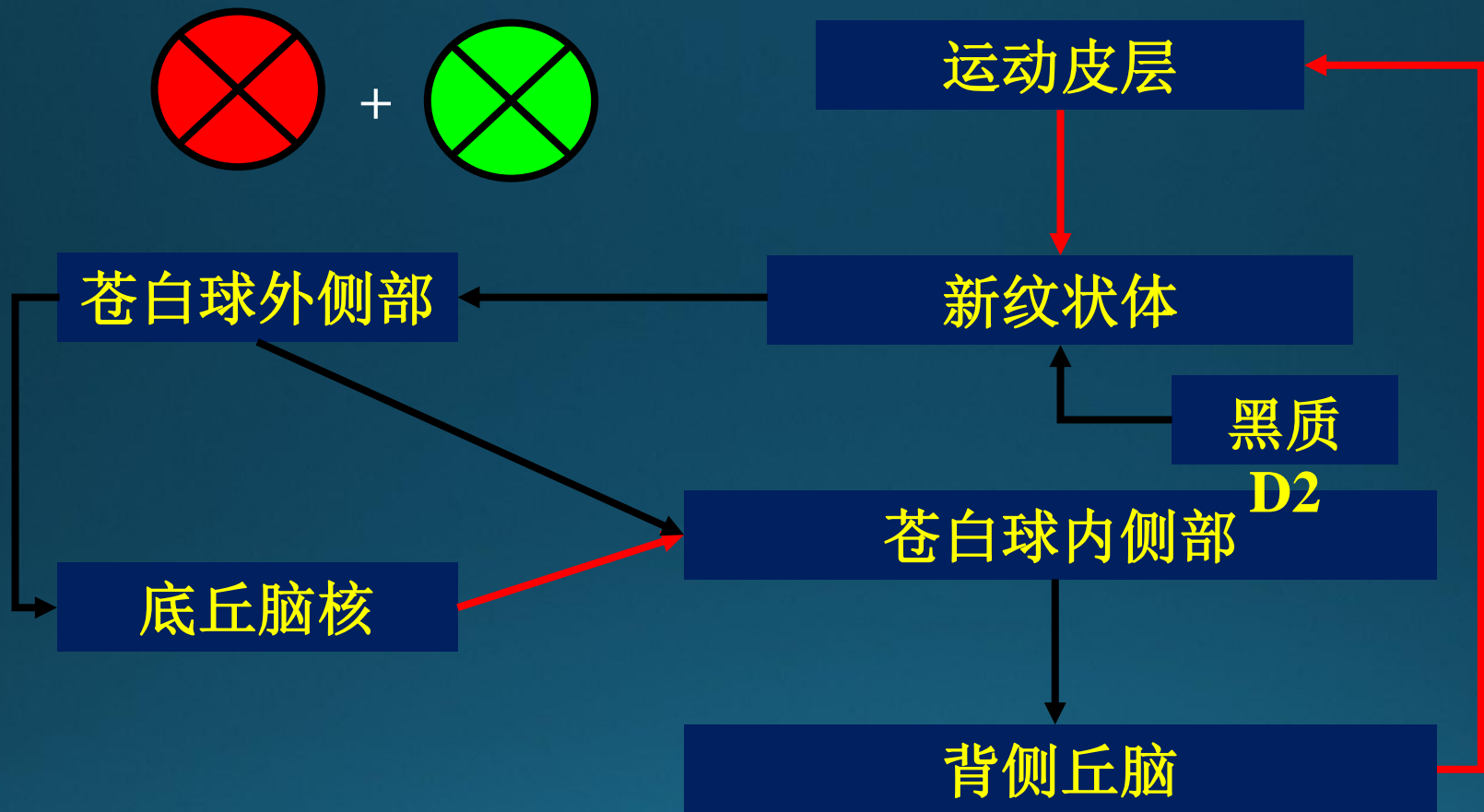
# 超直接通路



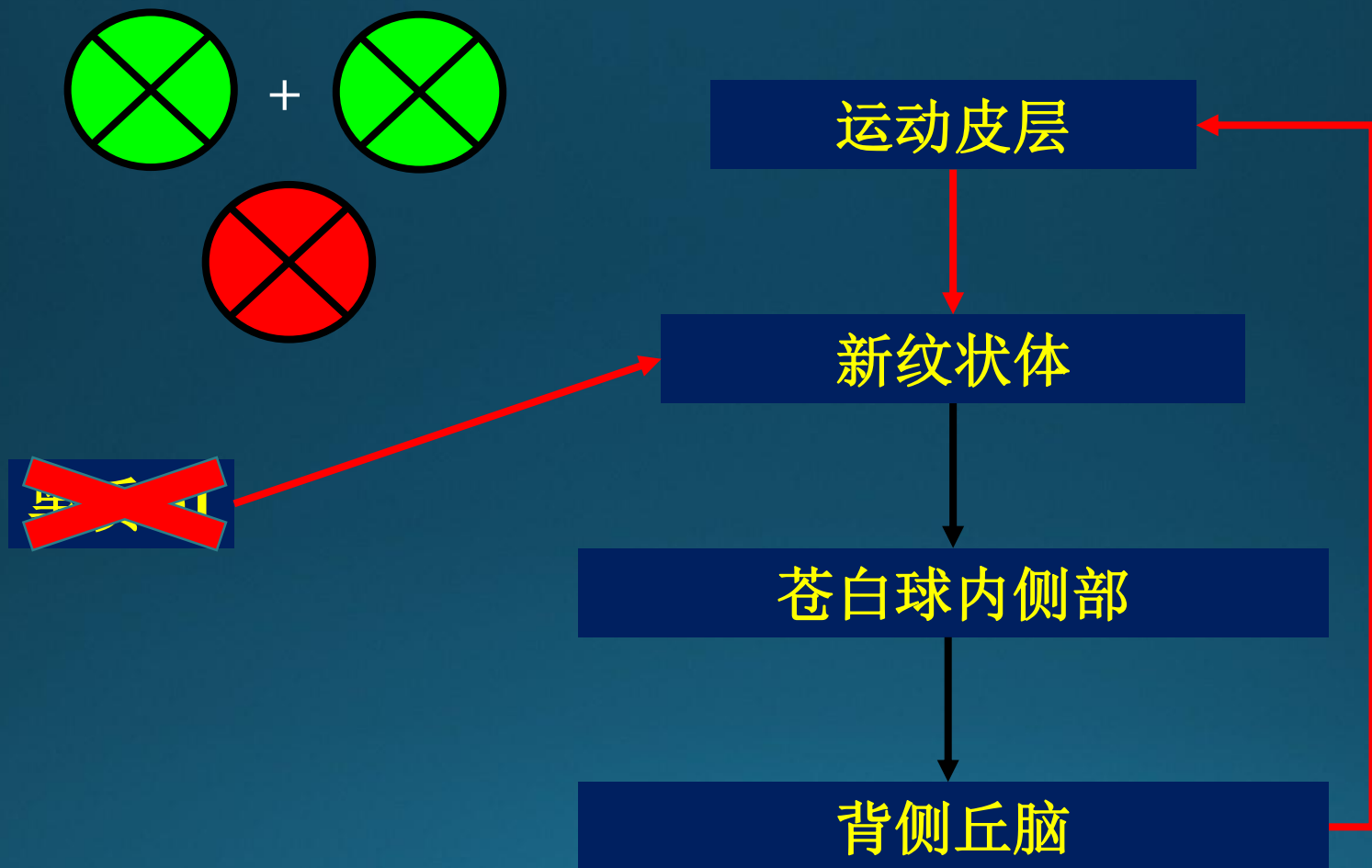
# 黑质对直接通路的影响



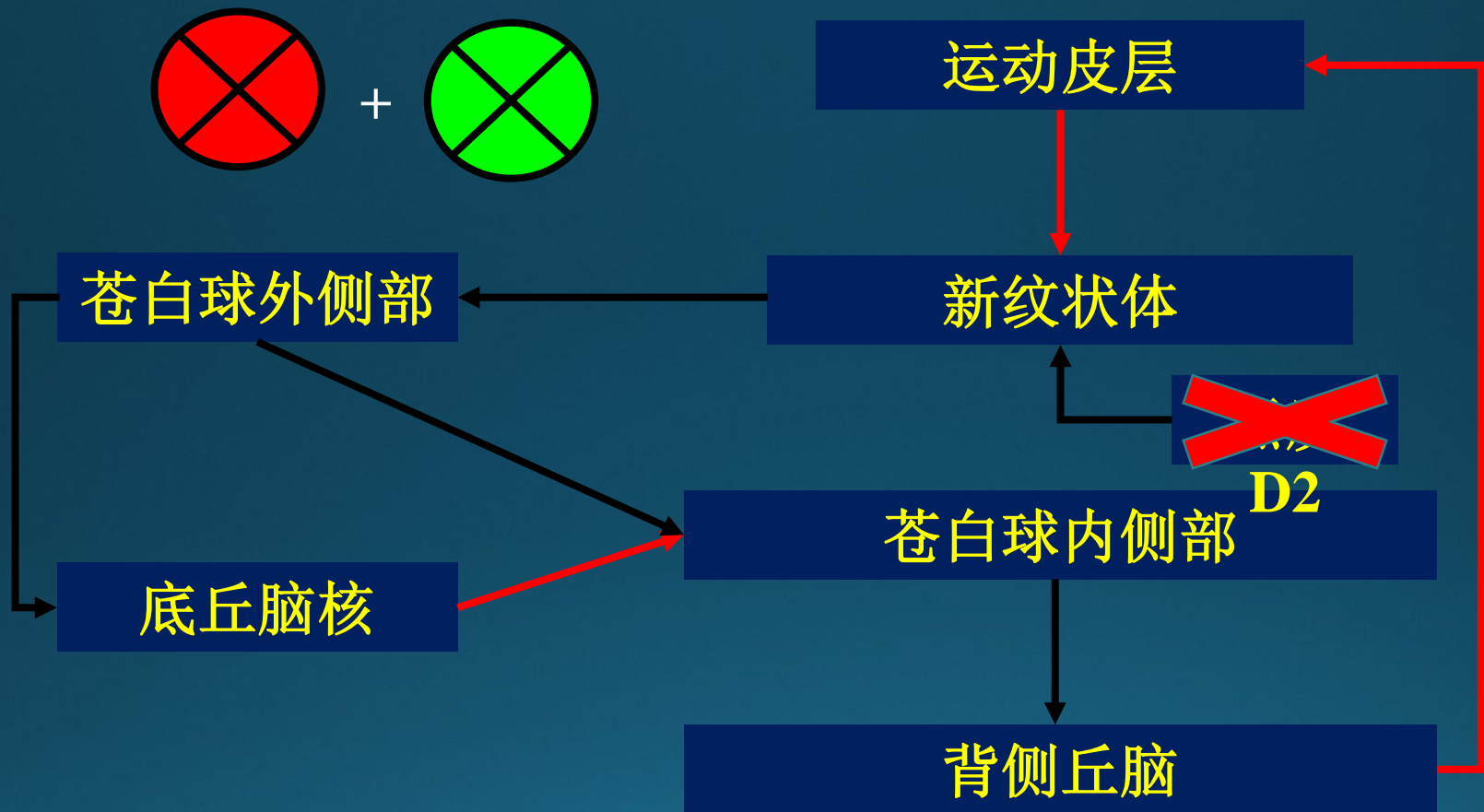
# 黑质对间接通路的影响



# 黑质病变

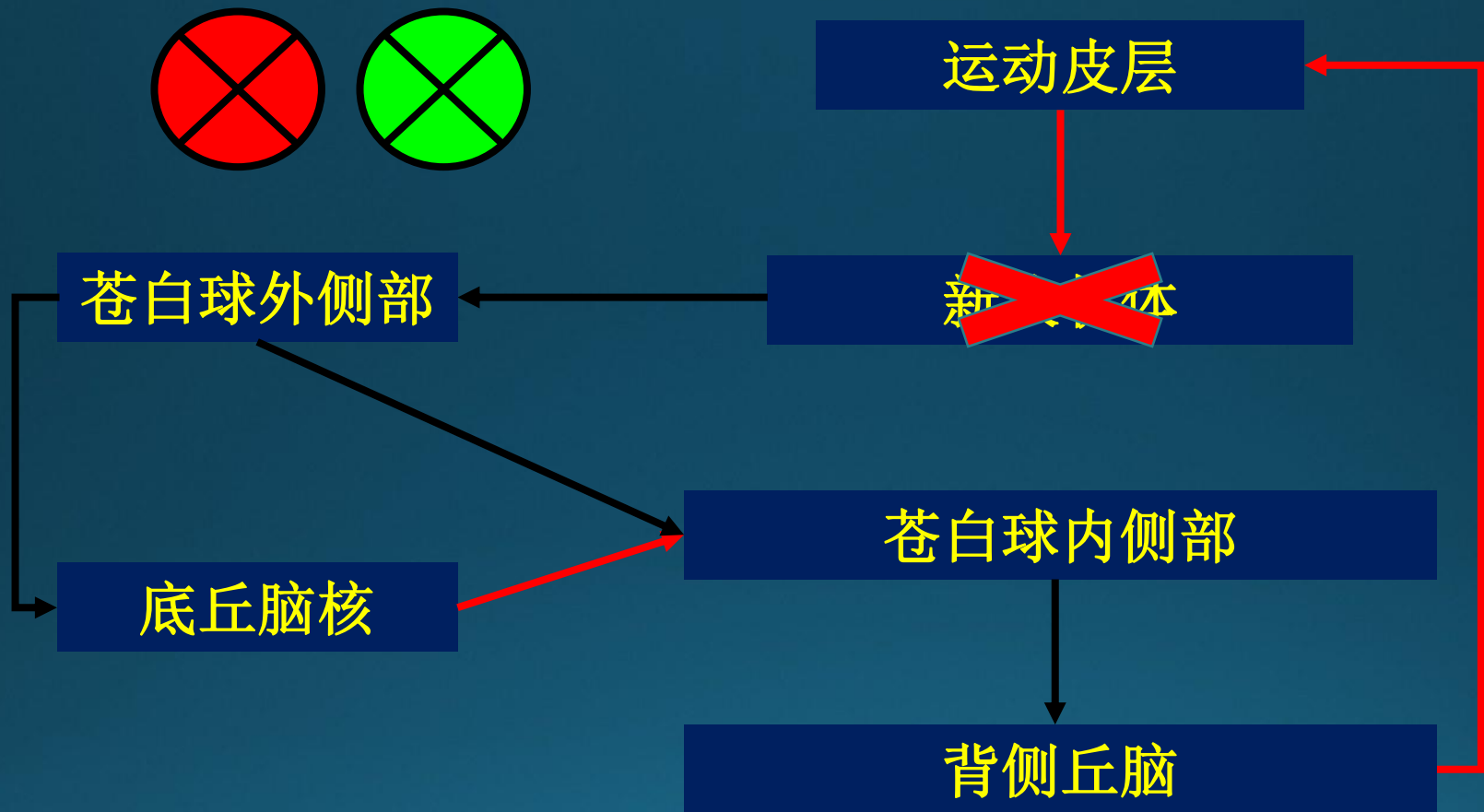


# 黑质病变



黑质病变会出现什么表现？

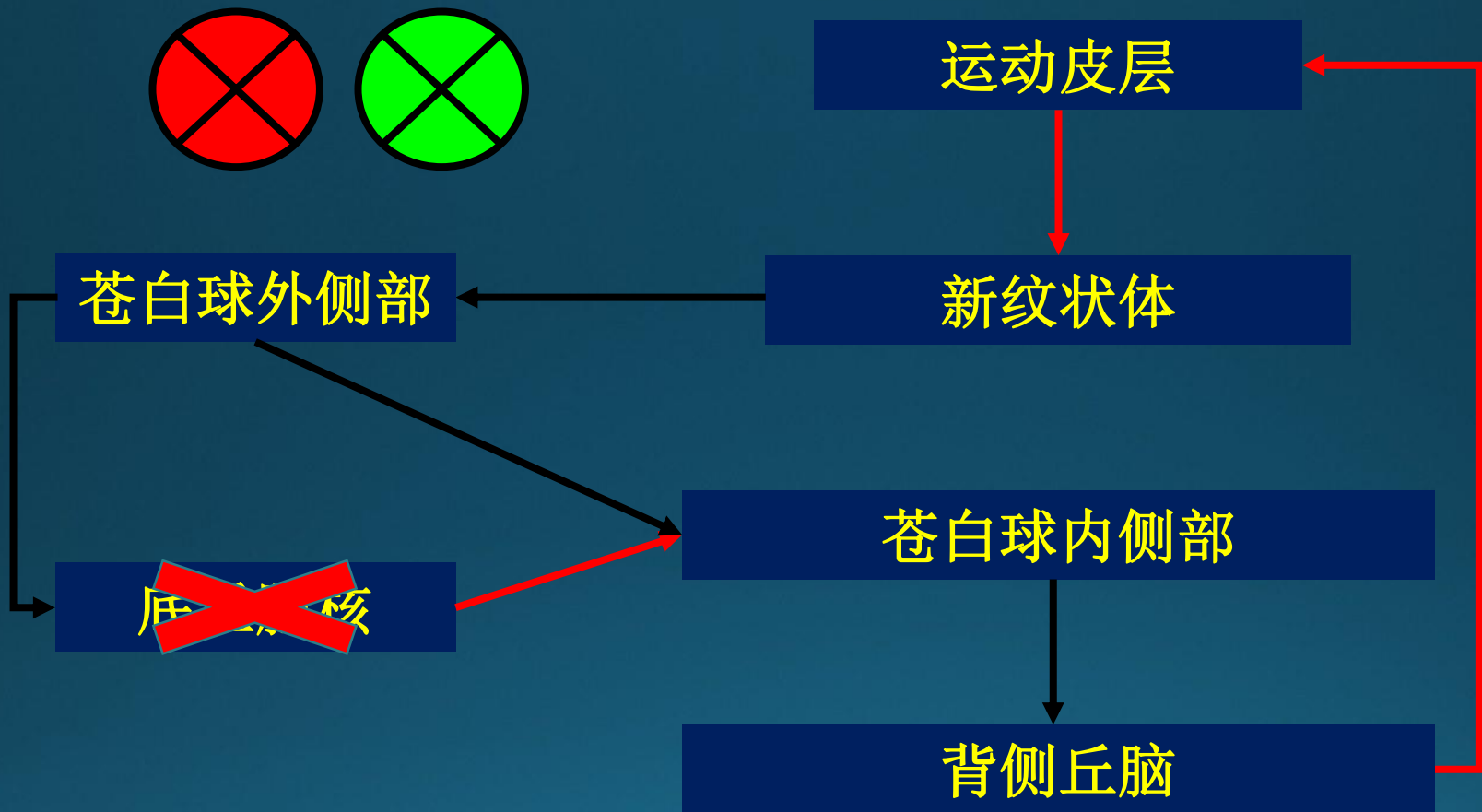
# 新纹状体病变



新纹状体病变会出现什么表现?



# 底丘脑核病变



底丘脑核病变会出现什么表现？

# 基底节病变症候

运动减少-肌张力升高

黑质

帕金森病

运动增多-肌张力降低

投掷

底丘脑核

新纹状体

舞蹈病

# 基底节通路

