



巴金森症治療之展望

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巴金森症的治療目標





一般疾病如何治療呢



目前巴金森的治療





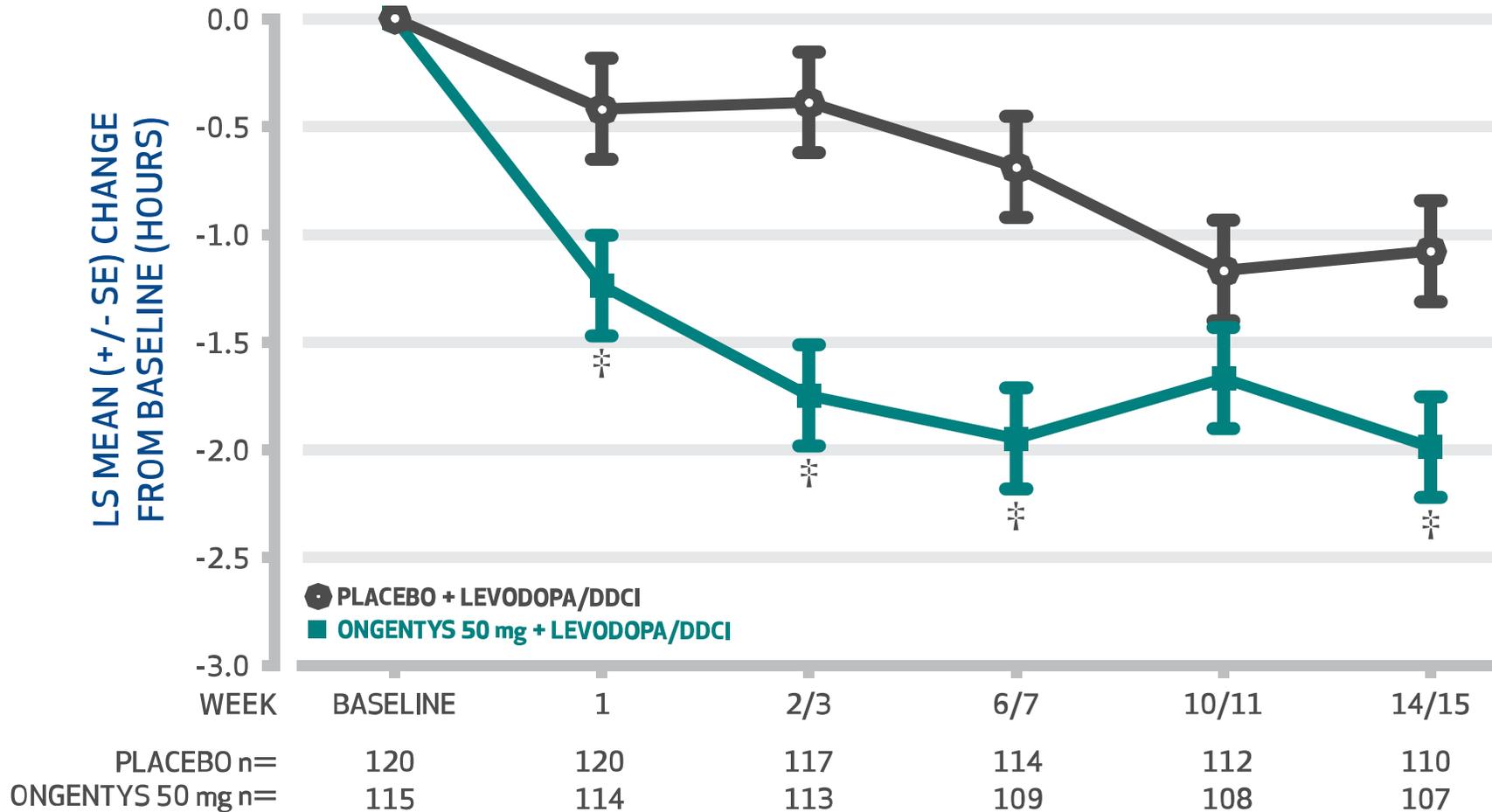
國際上新藥物治療：吸入型多巴胺



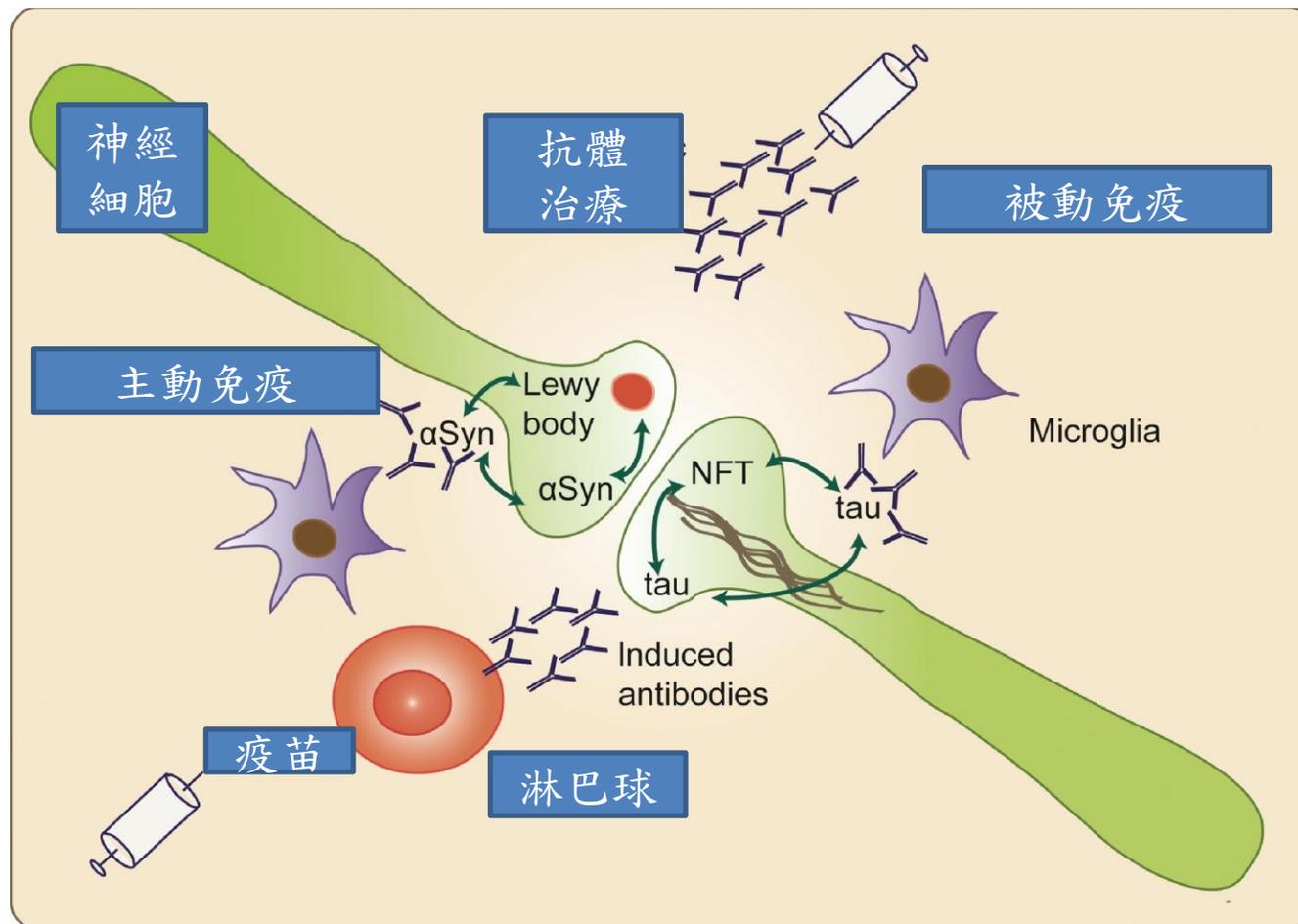
國際上新藥物治療：舌下多巴胺促效劑

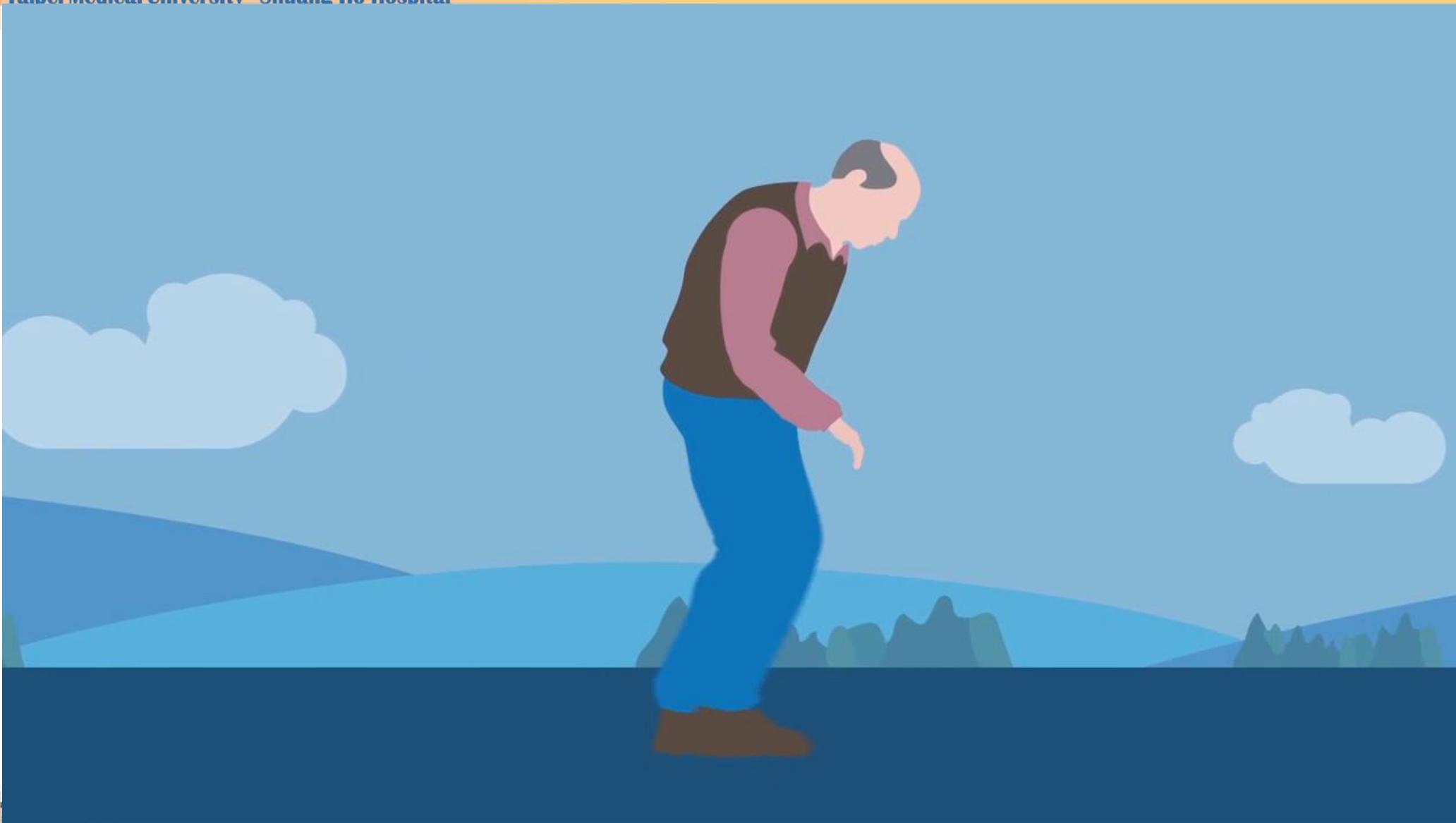


國際上新藥物治療：第三代長效型COMT抑制劑



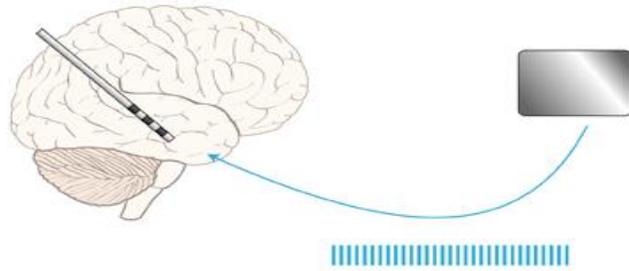
疫苗也可以治療巴金森?



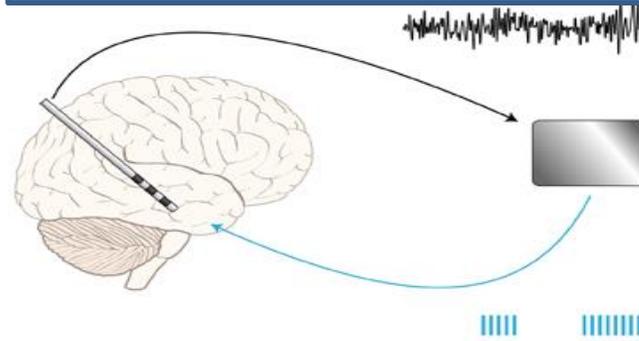


深腦刺激術：封閉迴路

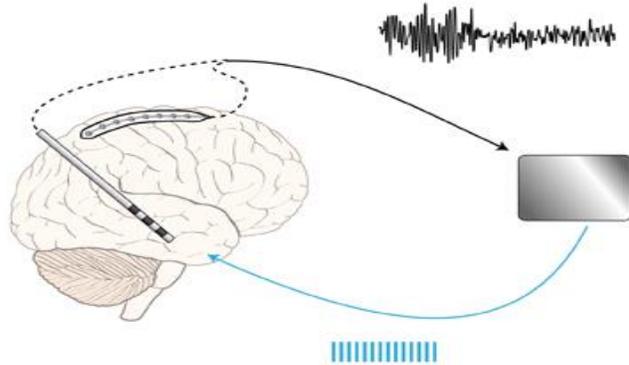
a 傳統開放迴路



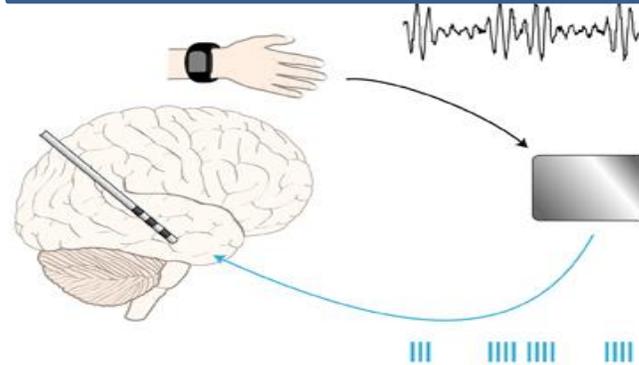
b 封閉迴路：感應基底核神經活性加以調控



c 封閉迴路：感應
大腦皮質神經活性加以調控



d 封閉迴路：感應手部動作加以調控





Sites of implantation: Right Motor and Premotor Cortex,
Right Ventral Intermediate Nucleus

Dominant Hand: Left

Stimulation Mode: Closed Loop

Stimulation Settings: 0-2V, 130 Hz, 120 μ s

Ramping Up/Down: 2V/s

Update Rate: 200ms

Features: 15 ± 2.5 Hz, 25 ± 2.5 Hz from Cortical Contacts





磁振導引聚焦超音波





* Actors were used to portray the medical professionals and patient.
FDA labeling: The Exablate Neuro is intended for use in the unilateral Thalamotomy treatment of idiopathic Essential Tremor patients with medication-refractory tremor. Patients must be at least age 22.





聚焦超音波治療巴金森症

- 顫抖：視丘燒灼
- 異動：蒼白核燒灼
- 僵硬/緩慢/顫抖：蒼白核-視丘路徑





Before MRgFUS



After MRgFUS



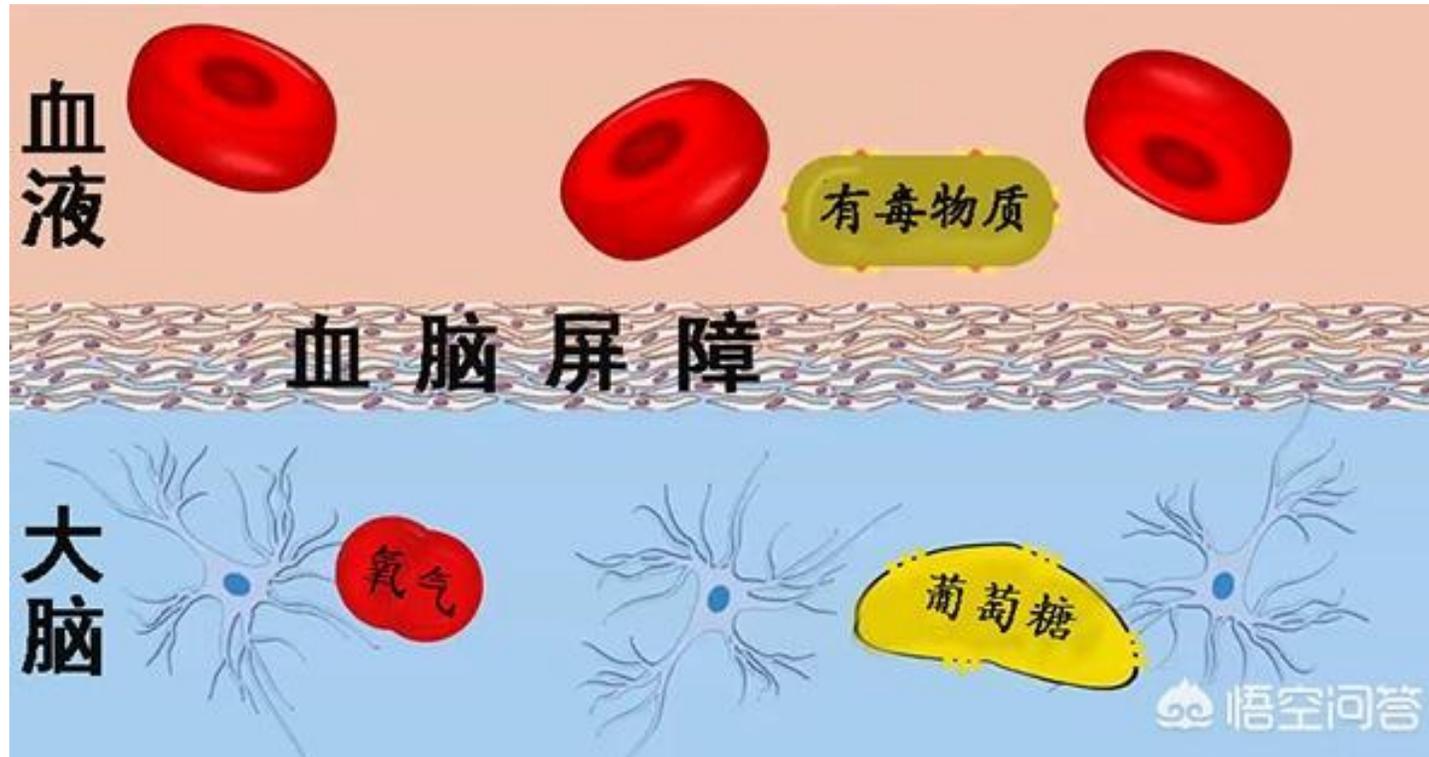


- 感謝彰濱秀傳醫院張維傑醫師提供治療影片

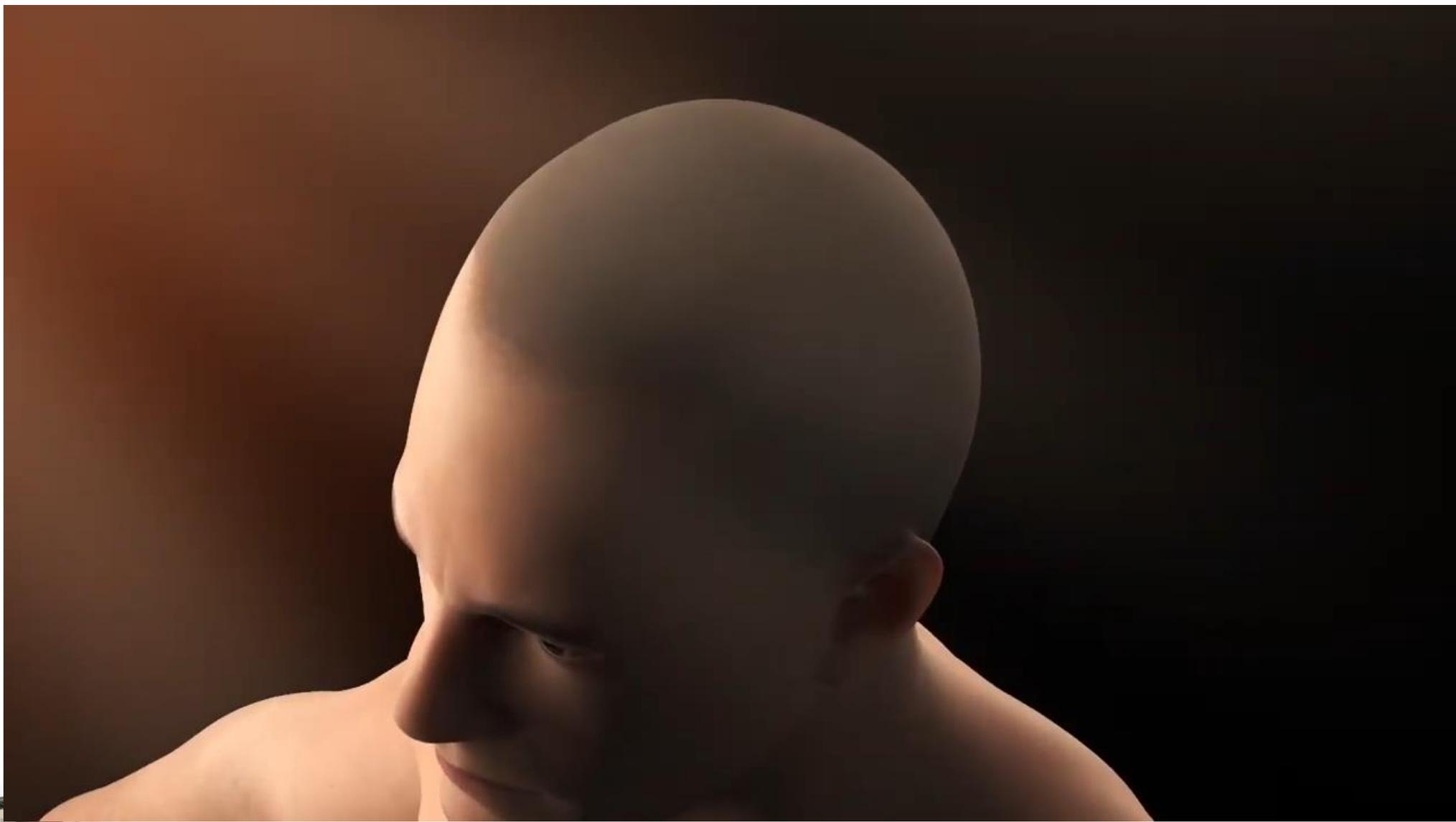




聚焦超音波其他應用









穿顱磁刺激





穿戴裝置與App









結語

- 有許多先進的資源投入治療巴金森症，包含藥物發展，腦刺激，穿戴裝置等等
- 所有的治療目標是為了一個更好的生活品質

