Deep brain stimulation in Parkinson’s disease

Review the direct and indirect pathways of the basal ganglia in healthy subjects and Parkinson patients below. The subthalamic nucleus (STN) is a major target for DBS. DBS Stimulation of the STN reduces activity of this nucleus and thus promotes movement. (a) Are there any other structures in the basal ganglia (or outside) that might be candidates DBS to alleviate Parkinson’s disease. (b) Can you think of a method to induce increased activity in a given nucleus using a medical device? Which brain structures might be target regions for alleviating Parkinson’s disease using such a device?