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brainStim. ## 2.3 List of Electrodes Used in Brain Stimulation Electrodes are the most critical tool for brain stimulation. There are a wide range of electrode types and sizes for stimulating specific brain regions. It is also necessary to use more than one type of electrode to target several brain regions. Electrodes can be grouped into the following categories: * Electrodes for superficial brain stimulation, including the _coils_ and _tape electrodes_ used for deep brain stimulation (see Figure 2.2). * Electrodes for deep brain stimulation (see Figure 2.3). * Electrodes for accessing and guiding a guide tube to various brain structures, including the _stereotactic frame_ used in neurosurgery (see Figure 2.4). * Electrodes for recording brain electrical activity (see Figure 2.5). * Electrodes for performing DC or AC electrical stimulation to the surface of the brain. * Electrodes for recording electroencephalograms (EEGs) and electromyography (EMGs). **Figure 2.2** Superficial brain electrodes. (a) Coils_ can be used to stimulate many different regions of the brain. These coils can be attached to the skull, fixed on the scalp, or implanted. They are one of the oldest neurostimulation techniques. In the operating room, _tape electrodes_ are put under the scalp to provide a reference for the current flow and to prevent skin breakdown. **Figure 2.3** Electrodes for deep brain stimulation. (a) For _deep brain stimulation_, electrodes are placed into the skull and secured with a device called a _pedicle screw_. (b) Such electrodes can be used to target specific nuclei of the thalamus, the basal ganglia, and the brainstem. **Figure 2.4** Stereotactic frame. (a) A magnetic stereotactic frame is used to align the _guide tube_ with the target area in the brain. (b) The frame also guides the movement of the electrode and the guide tube by measuring the position of a _marker_ in the frame that is attached to the guide tube. (c) In cases where a number of structures are to be targeted, the procedure is started by placing the frame directly on the skull at the desired 82157476af

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