# Probabilistic efficacy mapping

Probabilistic efficacy mapping is a method used in neuroscience, particularly in studies of deep brain stimulation (DBS) or other neuromodulation techniques, to identify and visualize the relationship between the location of stimulation (e.g., in the brain) and clinical outcomes (e.g., symptom reduction, medication reduction).

The result of this mapping is a visual representation that highlights the most effective areas for stimulation, allowing researchers and clinicians to better understand where to target DBS for the most beneficial outcomes. It provides a probabilistic (not deterministic) approach, meaning that while certain areas are more likely to yield positive results, there's still variability depending on individual patients' characteristics.

This method is especially useful in refining DBS treatments, as it helps personalize therapy by identifying which anatomical regions are most likely to benefit individual patients.