

CHILDREN'S HOSPITAL LOS ANGELES COMPREHENSIVE EPILEPSY PROGRAM

Virendra R Desai

Director of Surgical Epilepsy and Functional



CHLA COMPREHENSIVE EPILEPSY PROGRAM



Epileptology



Neurosurgery



Neuroradiology



Neuropsychology





10.5 million

0



472,000

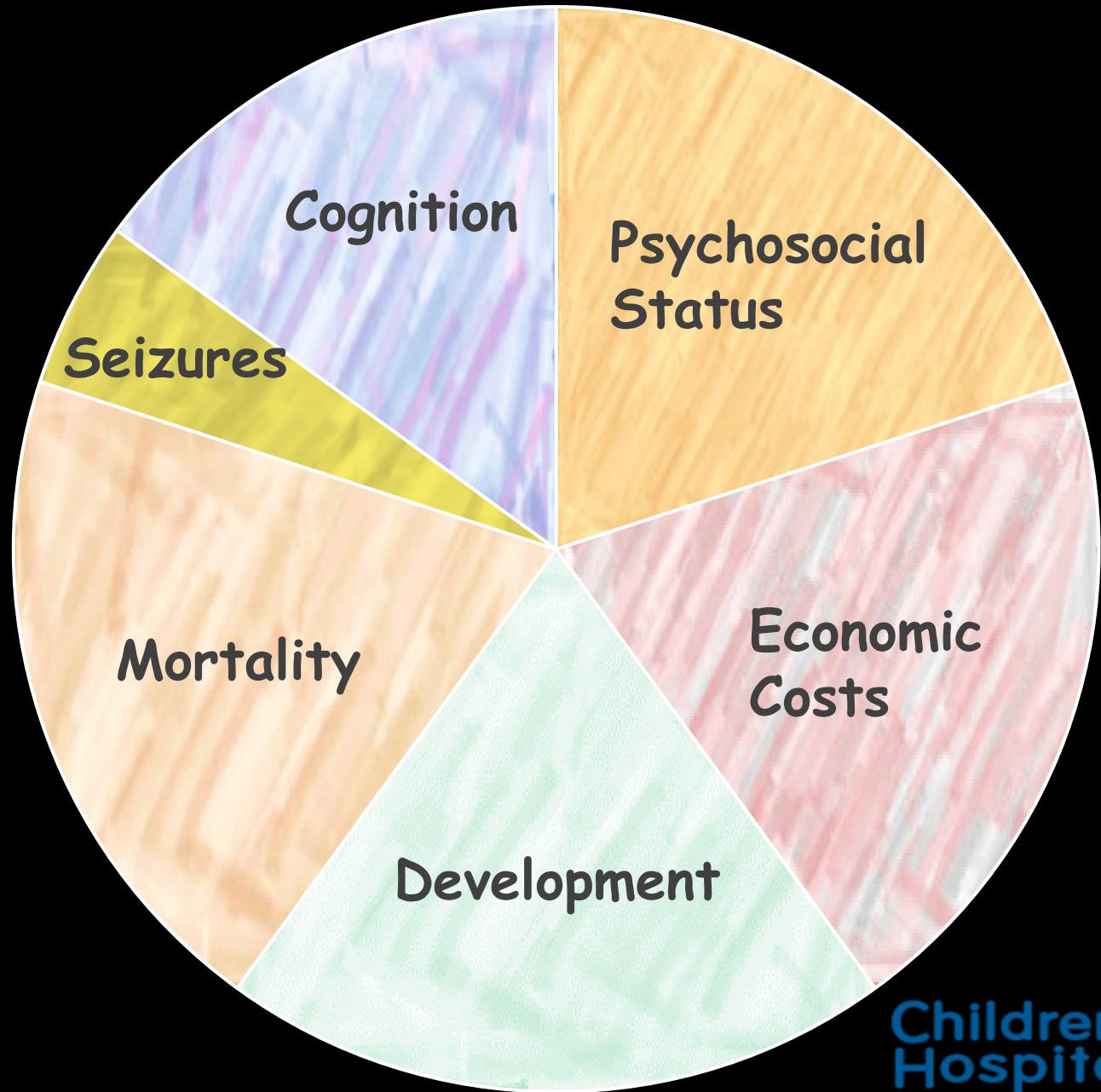


60,000

- ~1/3 medically refractory (Kwon and Brodie article: 47% seizure free after first AED; if one AED doesn't work, only 11% seizure free after second AED and **3% after third** – due to inefficacy and not intolerance/side effects)

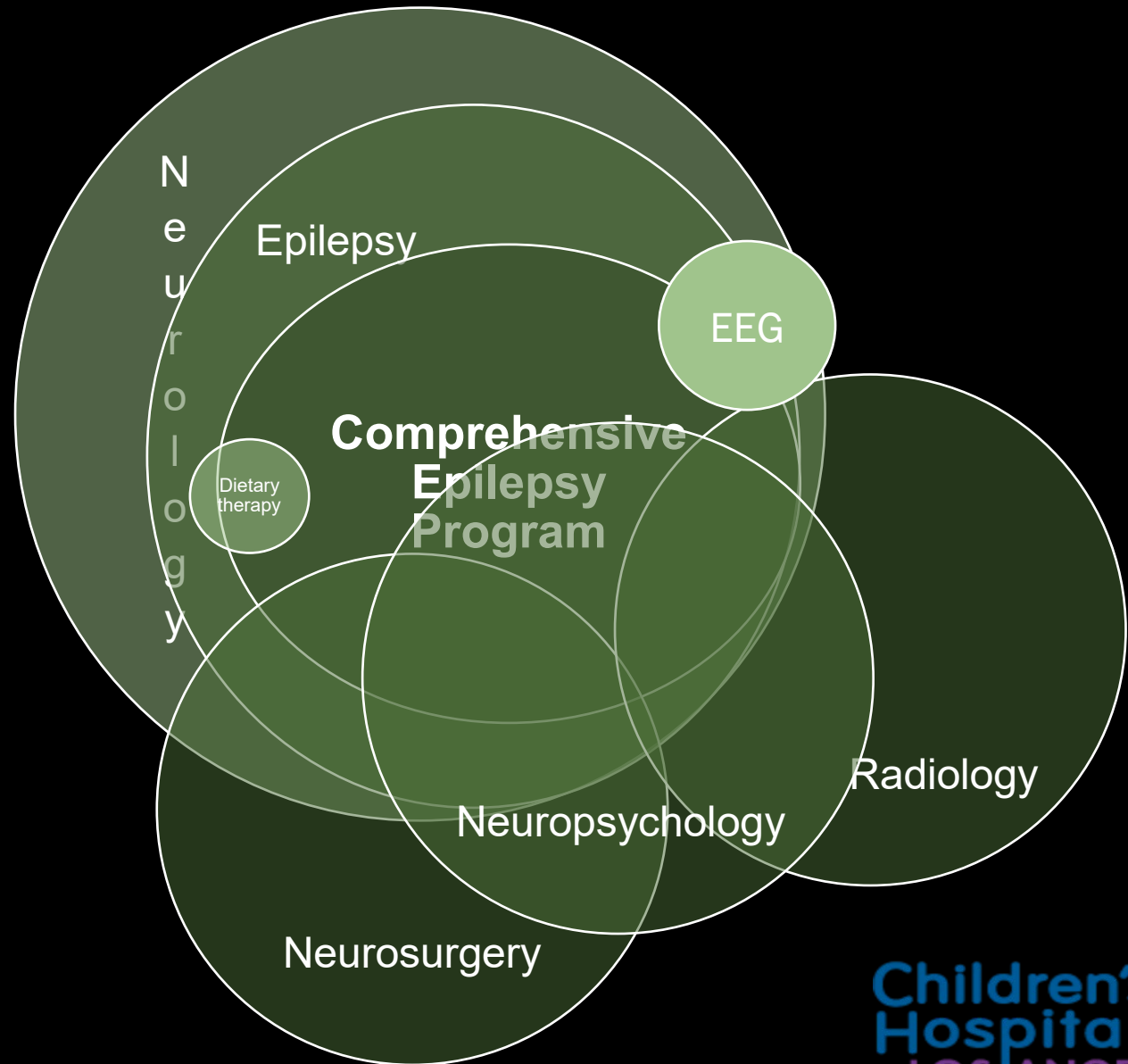


IMPACT OF EPILEPSY



"WHAT CAN WE DO FOR DRUG-RESISTANT EPILEPSY"

- Early referral provides best chance of preventing irreversible psychological and social problems, a lifetime of disability and death



EPIDEMIOLOGY



SURGICAL EVALUATION

1

H & P and
Semiology
vEEG
Structural Imaging
Functional Imaging
Neuropsychological
evaluation

2

iEEG

3

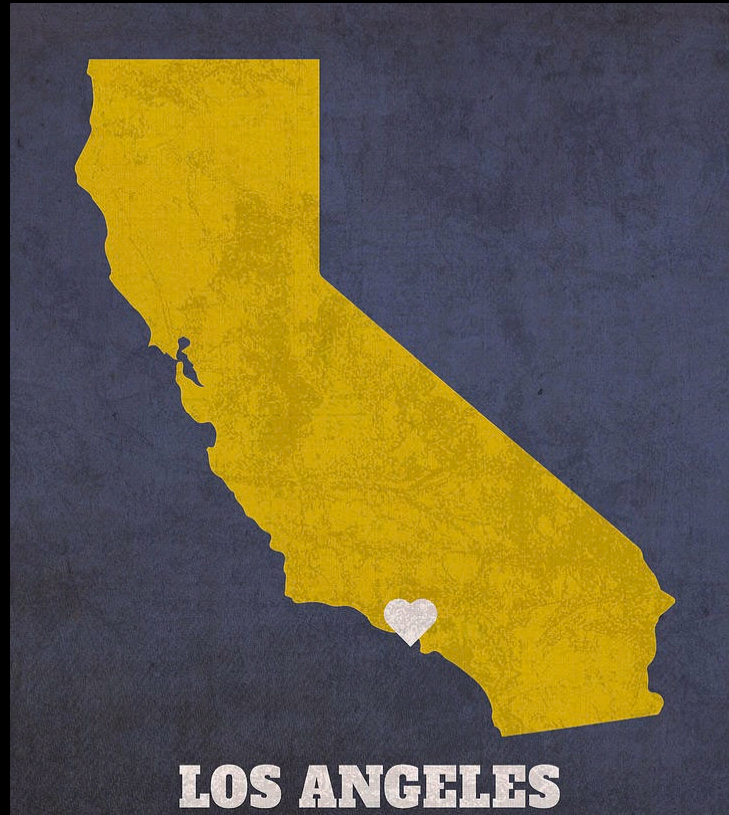
Bedside Mapping

4

Surgery



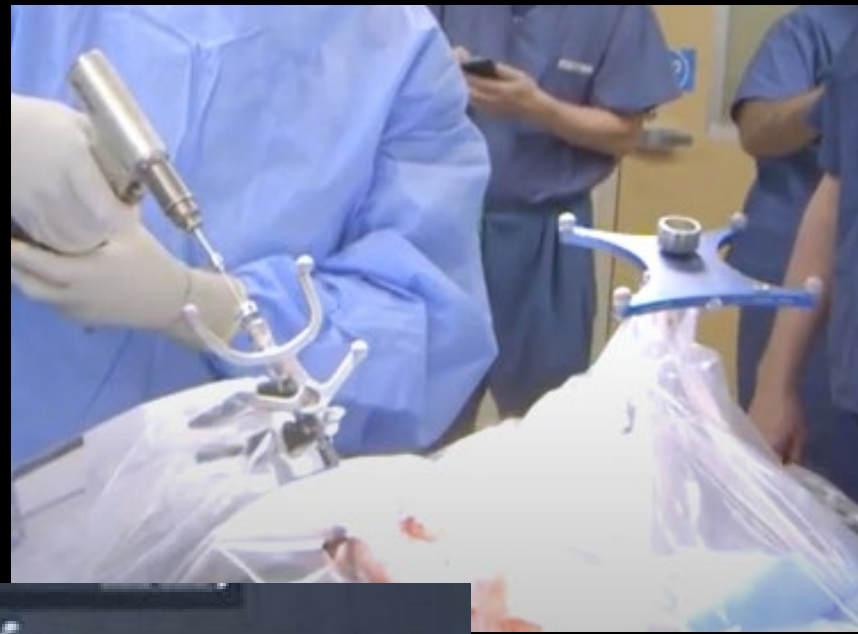
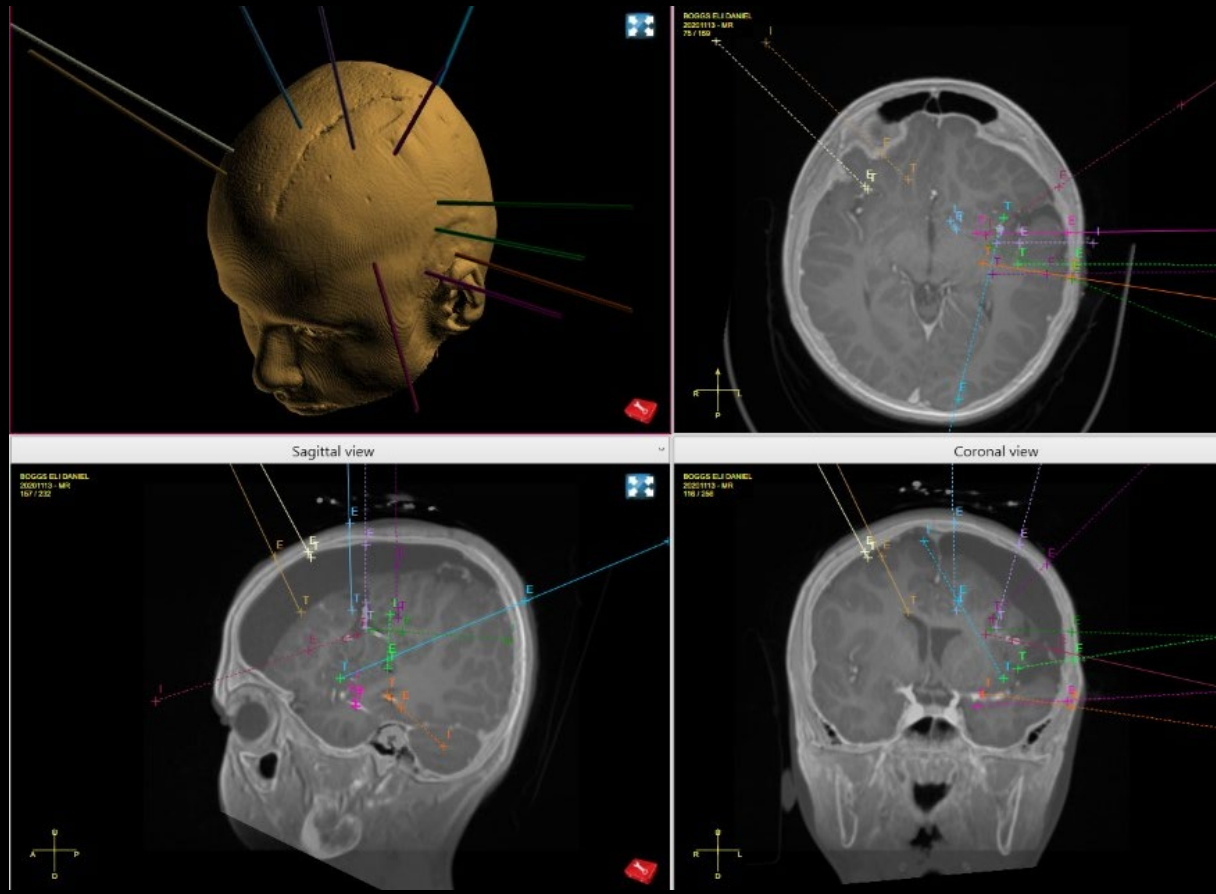
Standard EEG

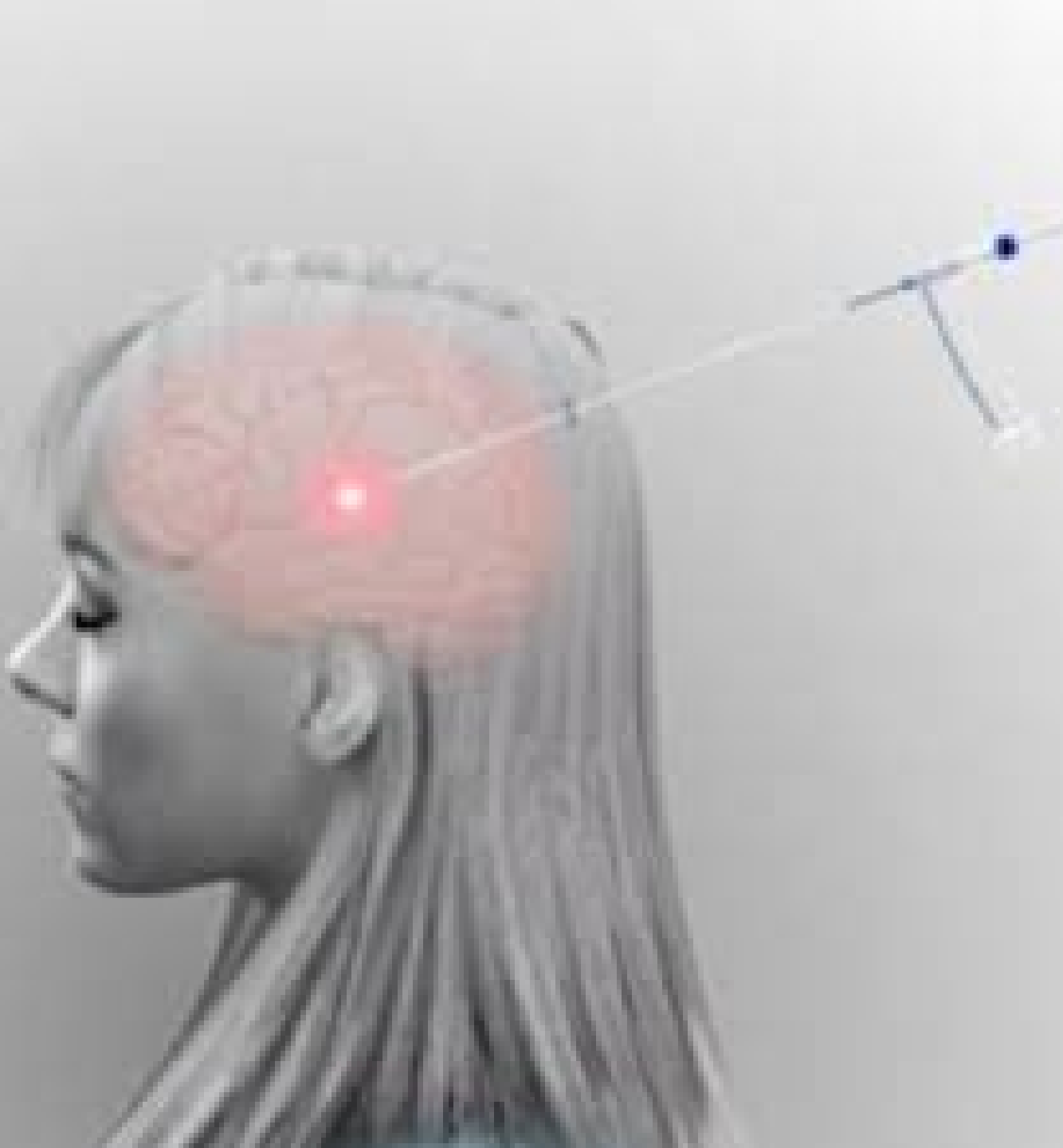


Invasive EEG



ROBOTIC SEEG





Stereotactic Laser Ablation

- Laser into tissue.
- Light energy is absorbed, creating heat.
- The heat destroys the target tissue while sparing critical structures.
- This is also known as Laser Interstitial Thermal Therapy (LITT).



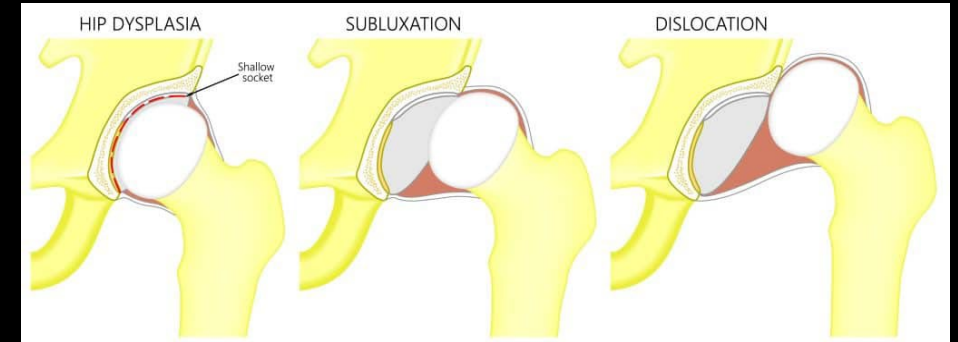
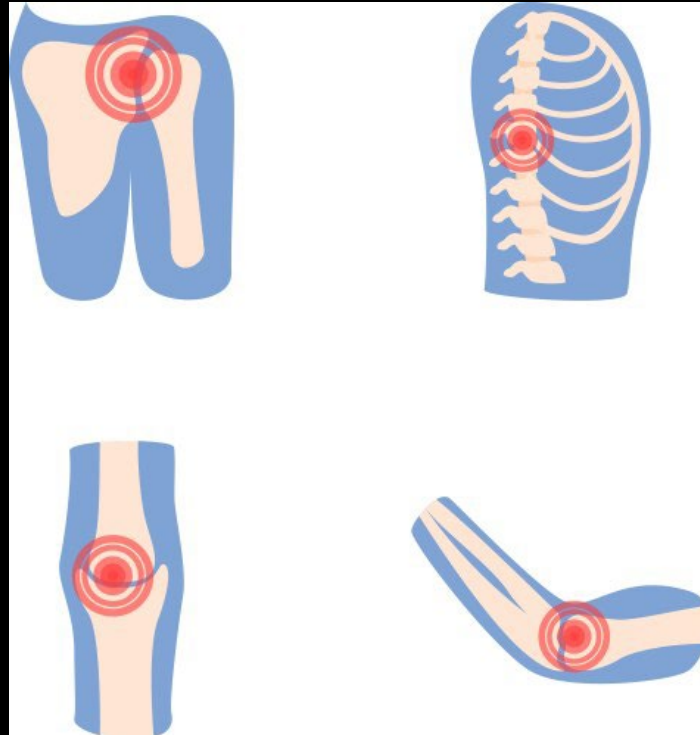
MOVEMENT DISORDERS

- Spasticity
- Dystonia
- Rigidity
- Choreoathetosis
- Tics

WHY TREAT HIGH TONE?



MUSCLE ACHES



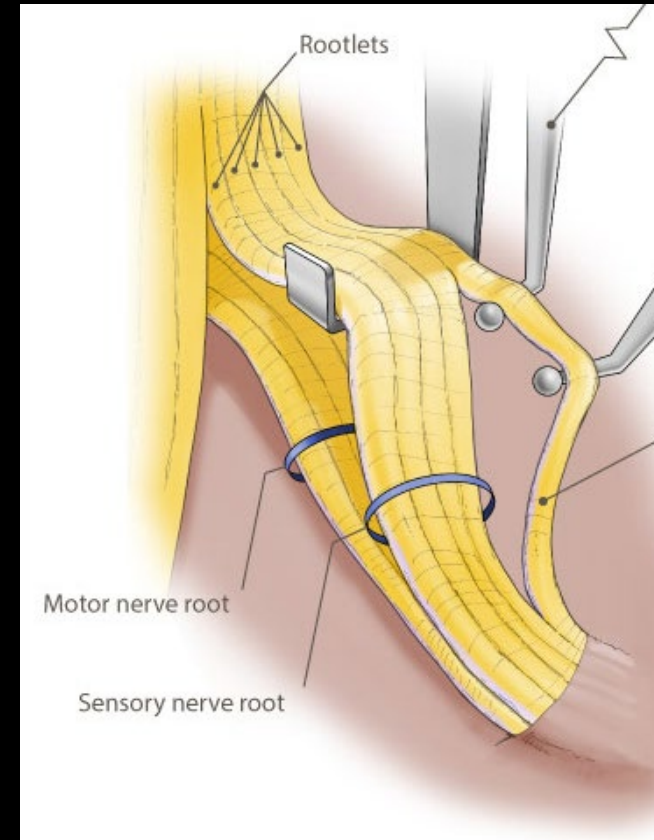
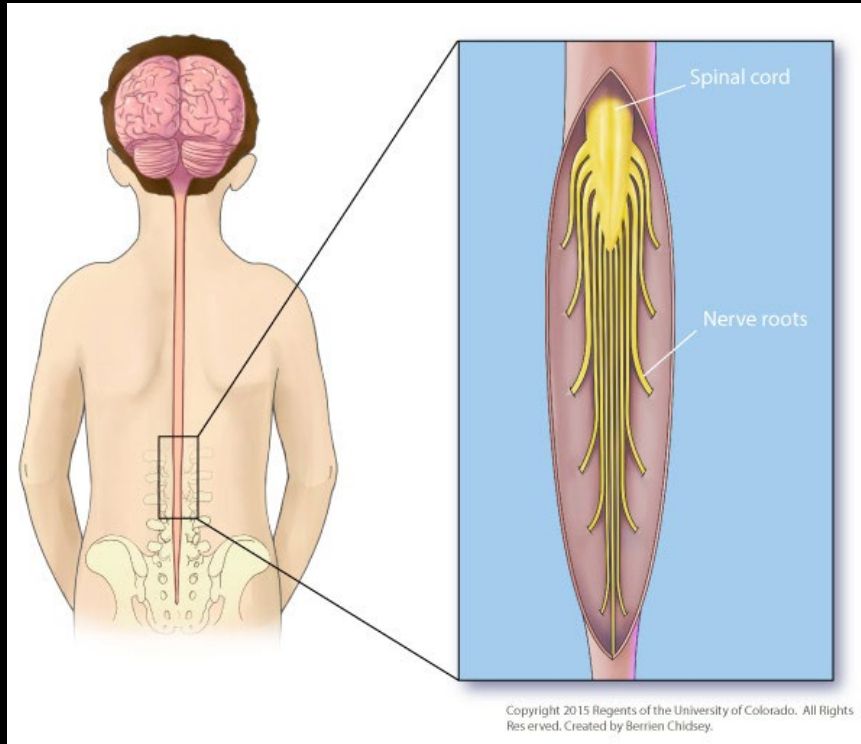
NEUROSURGICAL PROCEDURES

Spasticity	Dystonia
Intrathecal Baclofen Pump	Intrathecal Baclofen Pump
Selective Dorsal Rhizotomy	Deep Brain Stimulation

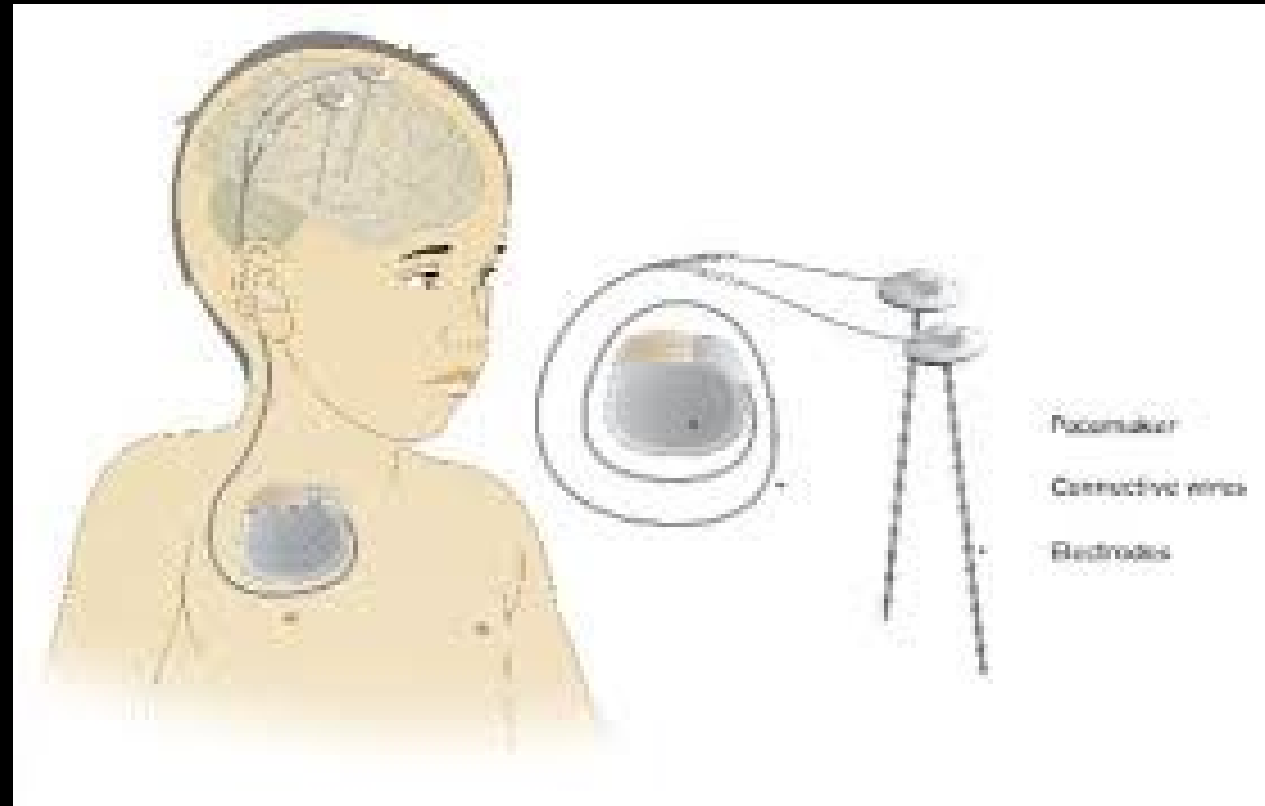
INTRATHECAL BACLOFEN PUMP



SELECTIVE DORSAL RHIZOTOMY



DBS



THANK YOU!

- Vdesai@chla.usc.edu
- Cell: 281-414-8270
- Office: 323-361-2169