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# Neuropalliative Rehabilitation

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**Institute of Neuropalliative Rehabilitation**  
**Royal Hospital for Neuro-disability,**  
**London, UK**

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# 'Palliative'

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- **Servicing to cloak or conceal**
- **Servicing to relieve (disease) superficially or temporarily, or to mitigate or relieve**

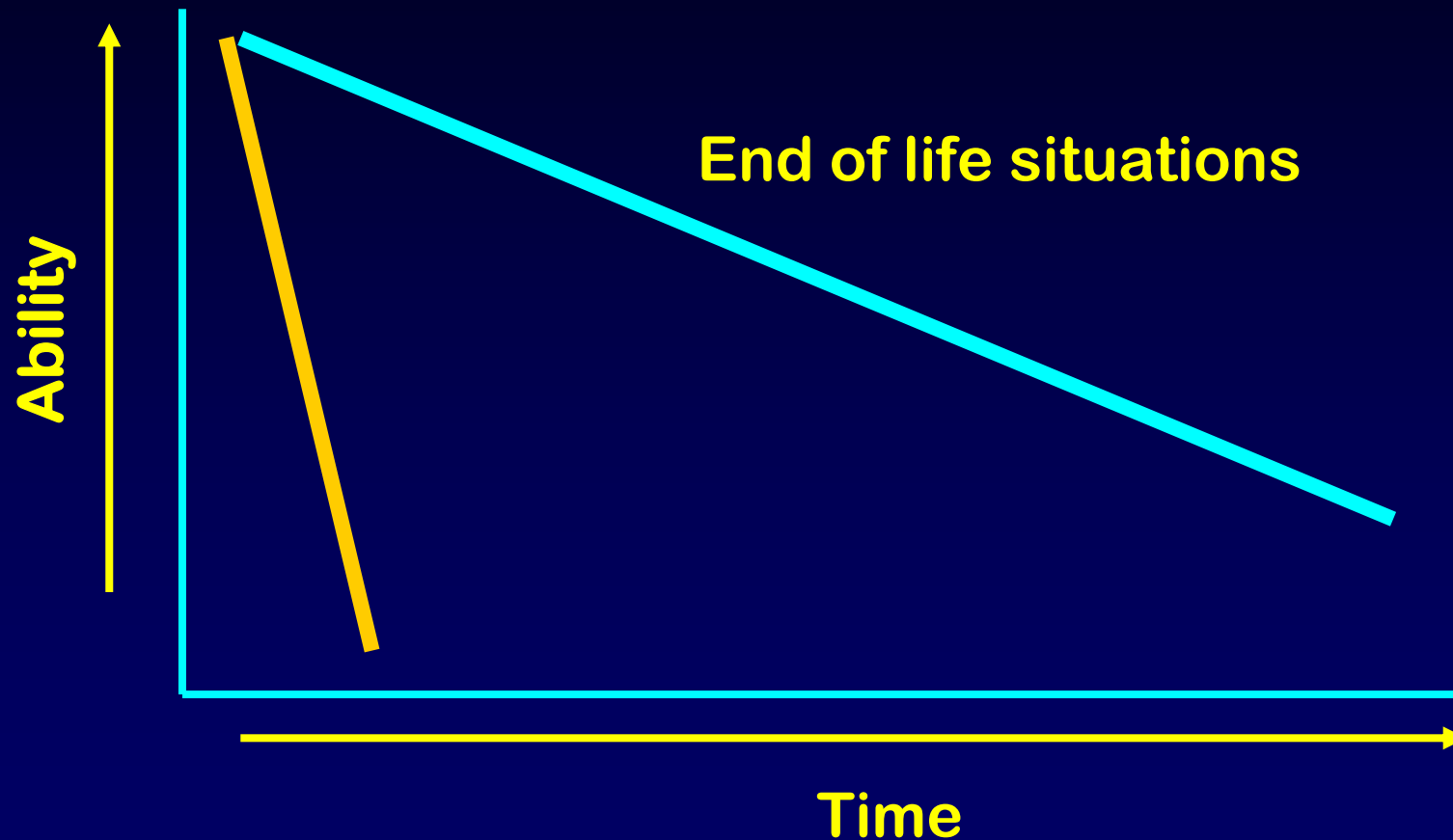
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# Neurological Palliative Care



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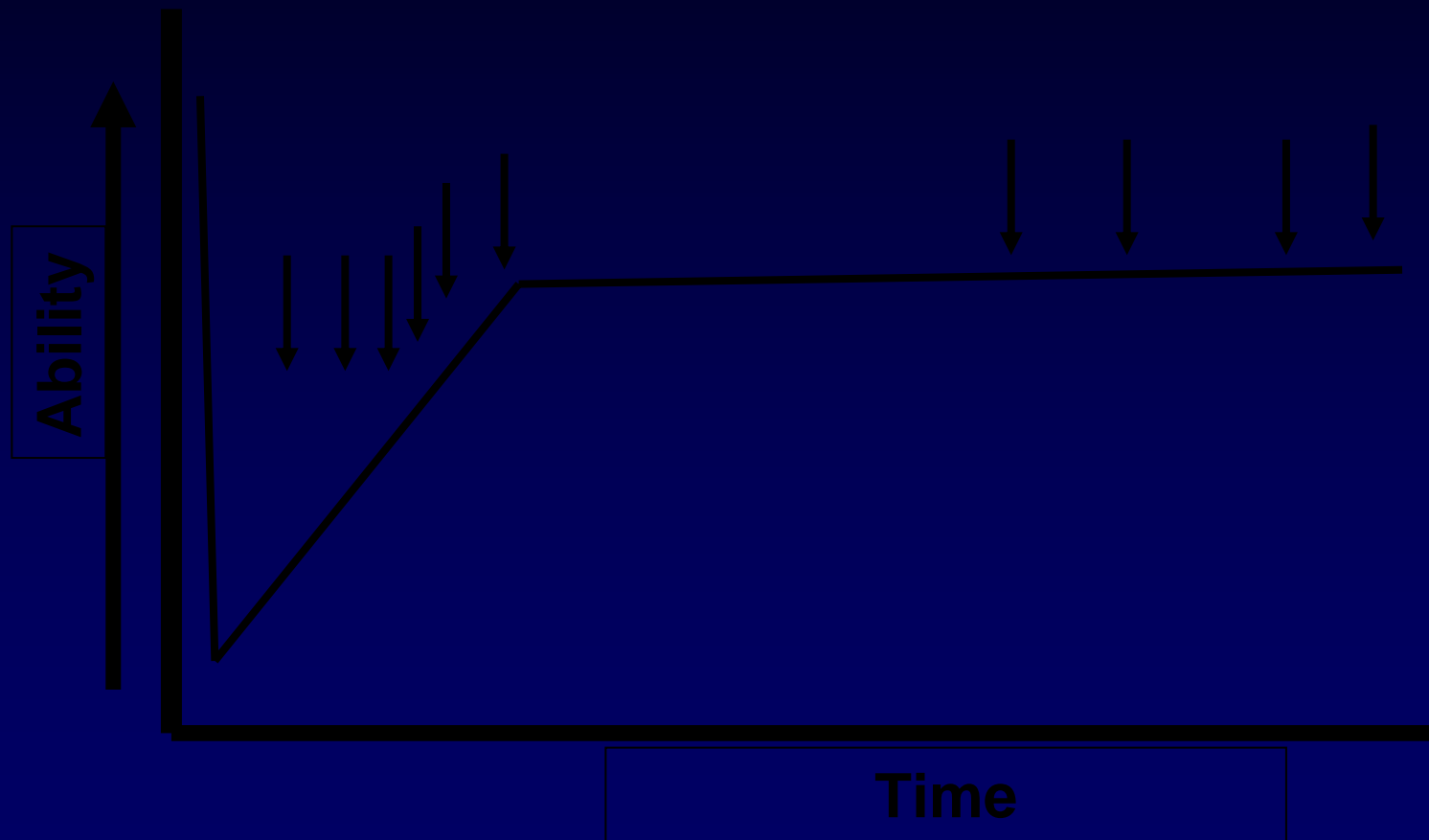
# Long-Term Conditions

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# LTC Categorisation

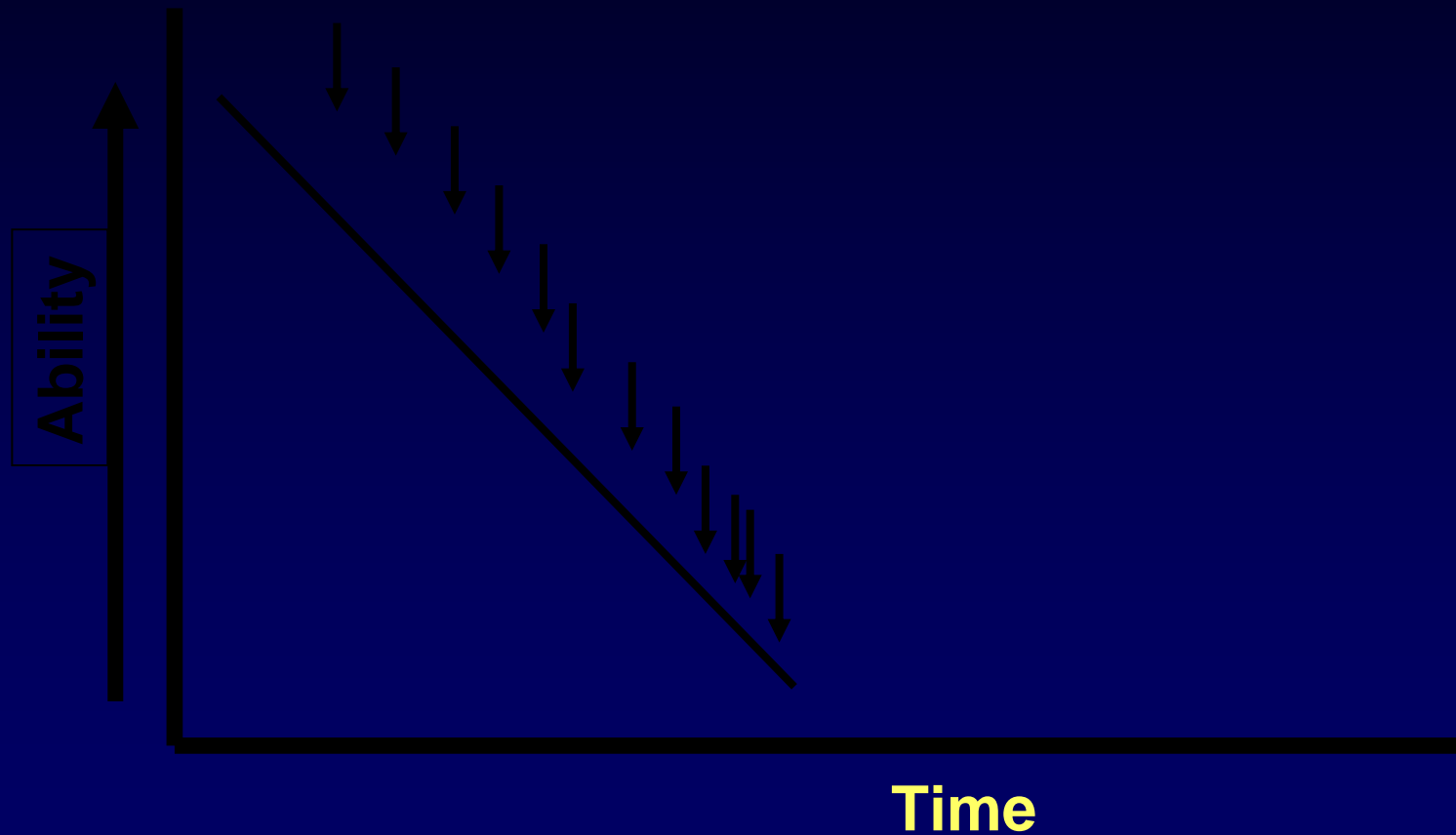
Sudden-onset: *ABI, stroke or spinal injury*



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# LTC Categorisation

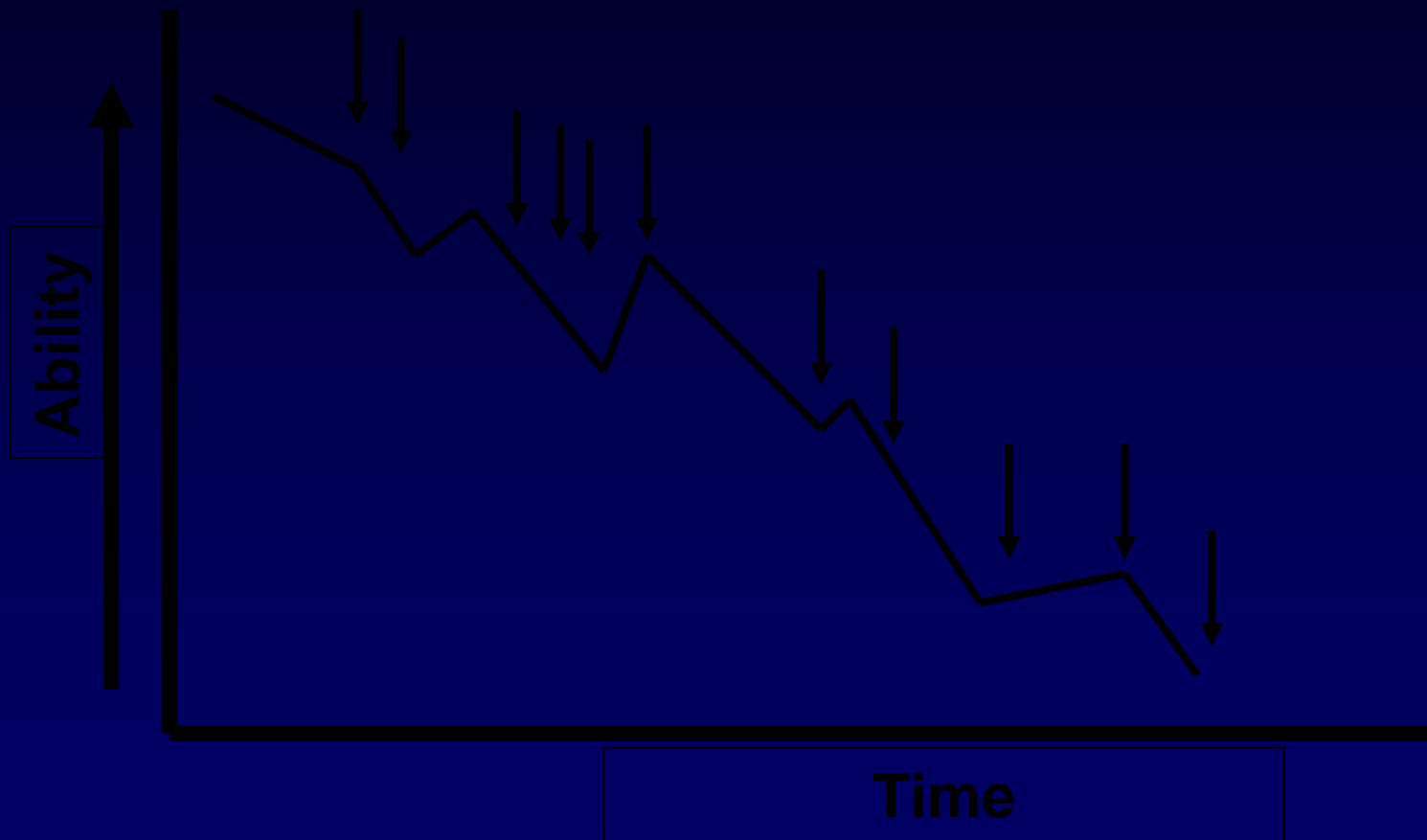
**Progressive Conditions (rapid): Motor neurone disease**



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# LTC Categorisation

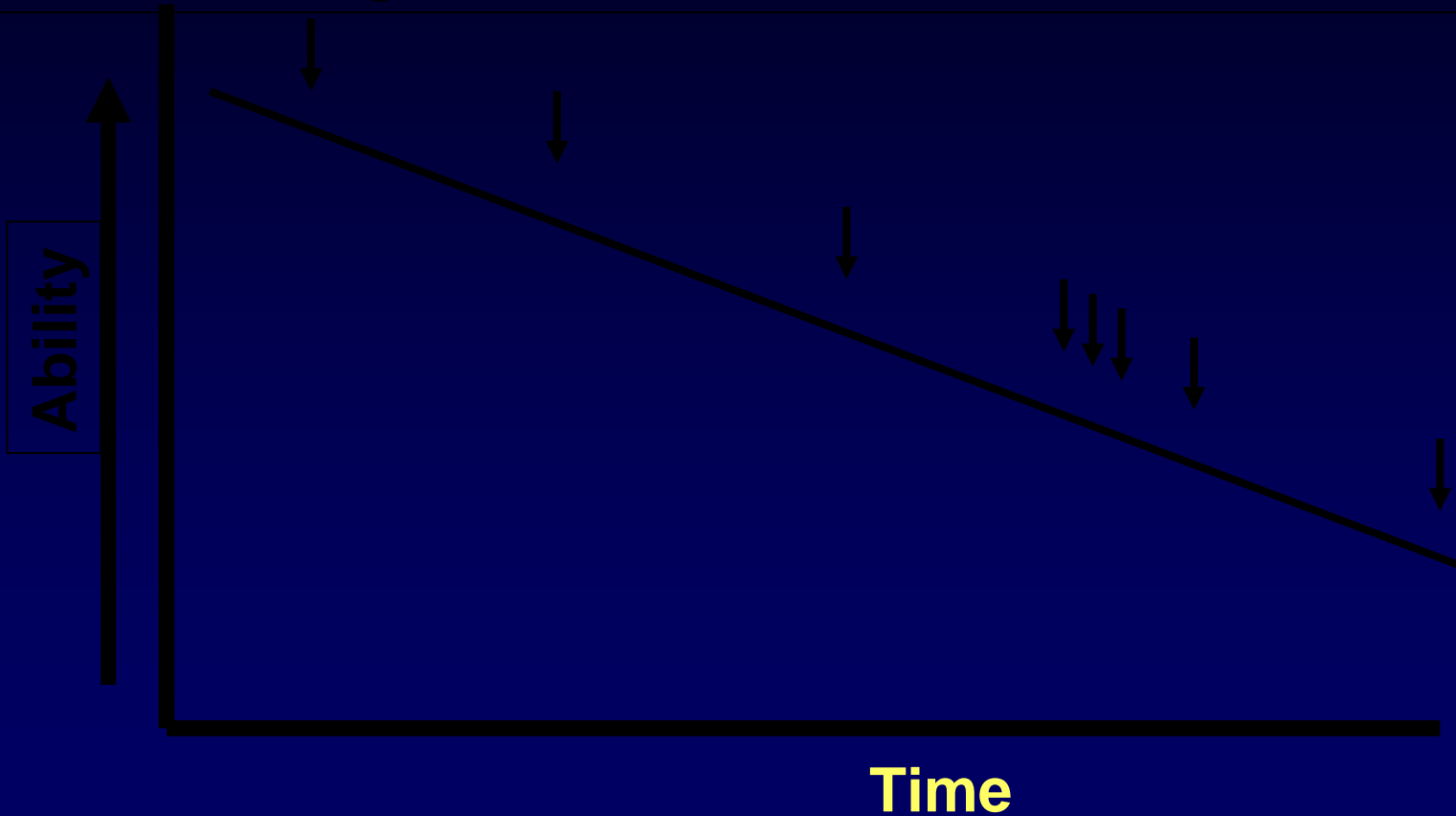
Progressive Conditions (slow): PD, MS



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# LTC Categorisation

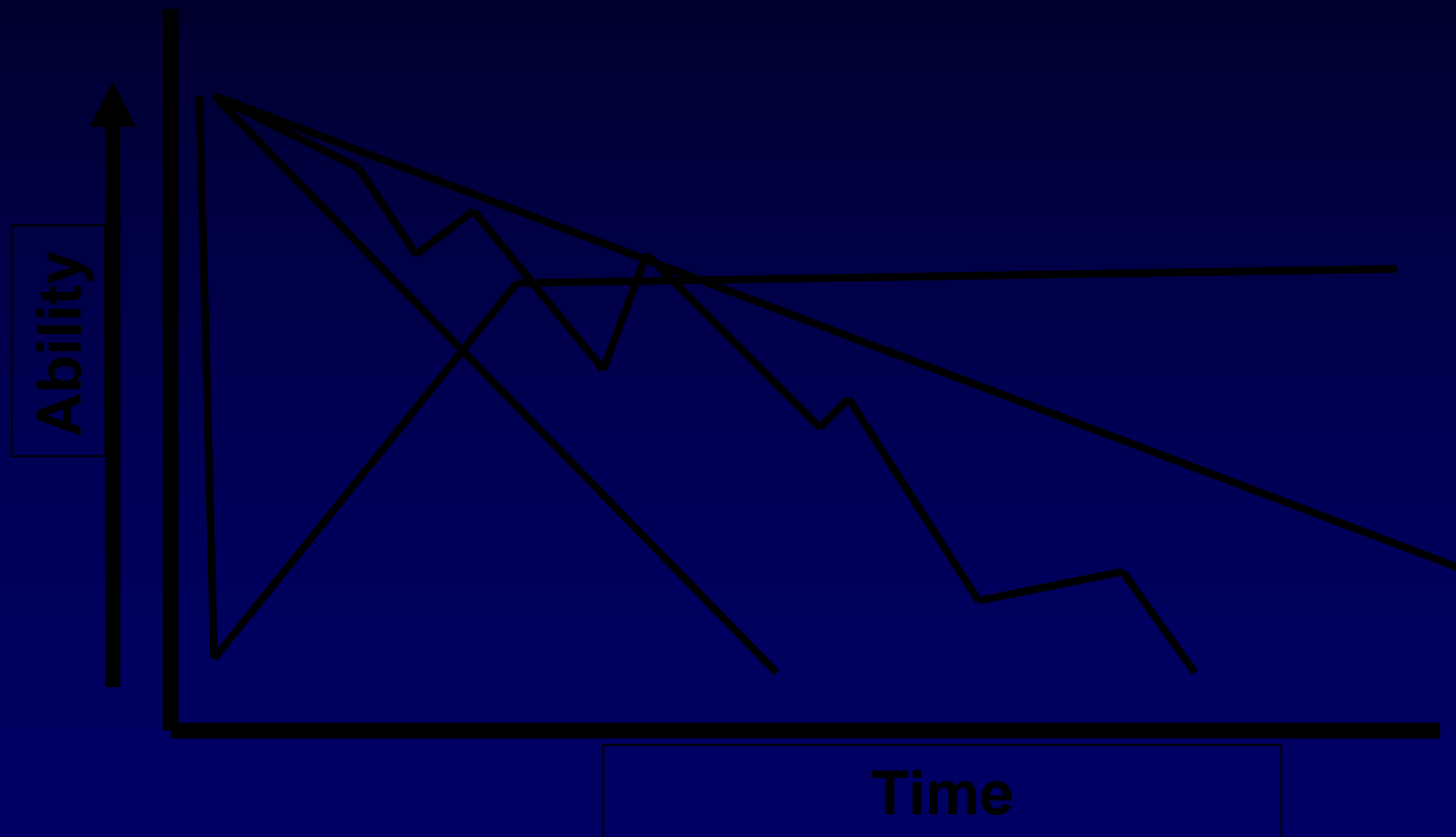
Stable, changing needs: post polio or cerebral palsy in adults, Huntington's disease



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# LTC Categorisation



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# Clinical Presentations

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Physical/motor

Sensory

Psychosocial &  
Emotional

Cognitive/  
behavioural

Communication

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# CONCEPTS OF 'DISABLEMENT'

- Disease
- Impairment
- Disability/Activity/Capacity
- Handicap/Participation/Performance
- Satisfaction

# Complex Disablement

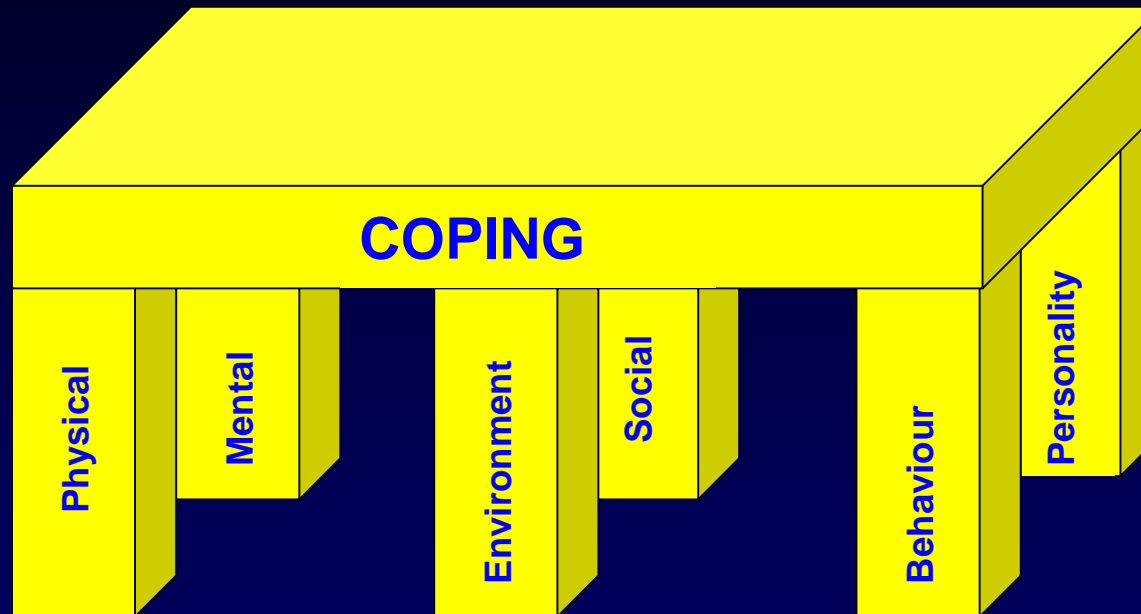
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- Physically dependent
  - Medical- Surgical complications
  - Cognitively impaired
  - Behaviour/personality changes
  - Medically vulnerable
  - Family in crisis
  - Social disintegration
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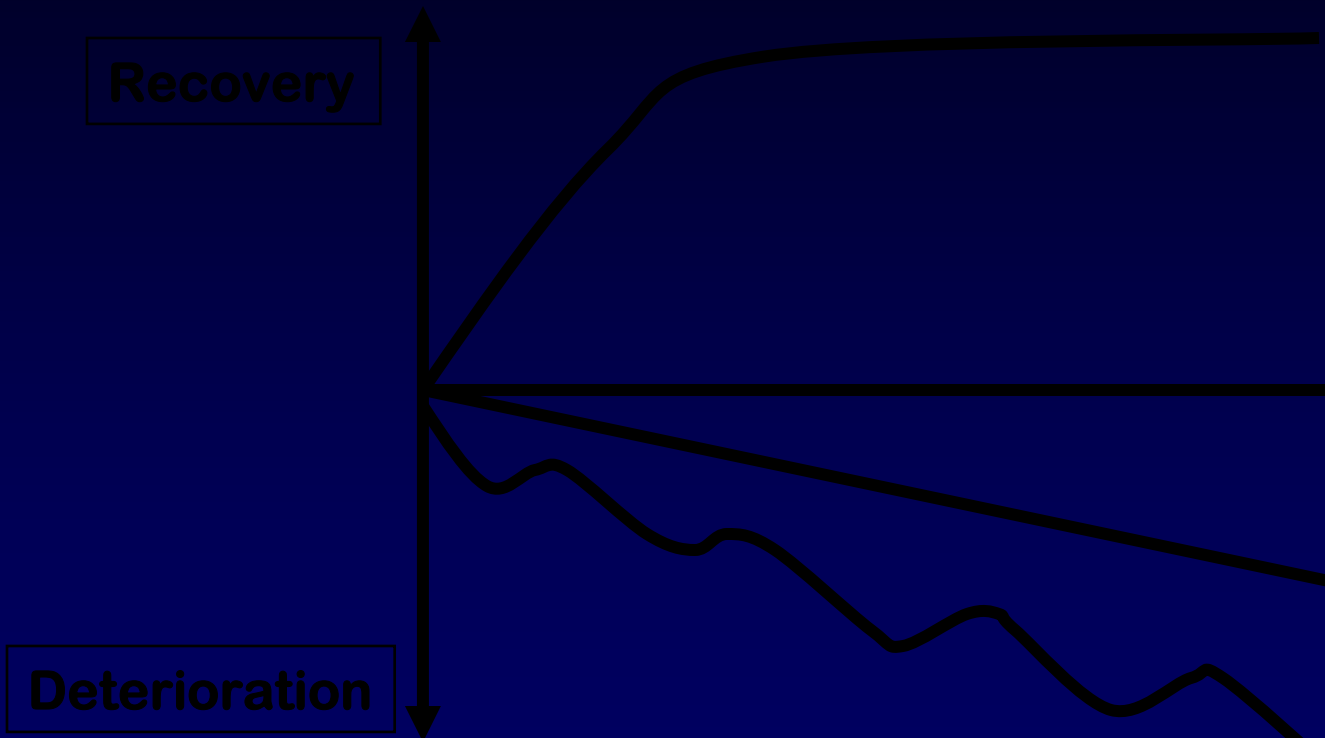


# THE COPING STONE





# Disability Management



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# Principles of Rehabilitation

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- **Prevent secondary complications**
- **Provide environment for recovery**
- **Treatment**
- **Modify the patient**
- **Modify the environment**
- **Support the family**
- **Change Society**



# Principles of Rehabilitation

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- **Prevent secondary complications**
  - **Undernutrition**
  - **Contractures & spasticity**
  - **Chest infections**
  - **Bladder dysfunction**
  - **Constipation**
  - **Pressure sores**



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# Principles of Rehabilitation

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- Prevent **secondary** complications
- Provide environment for recovery

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# Environment for Recovery

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- Health
  - Nutrition
  - Infections – bladder & chest
  - Posture & positioning
  - Seating
  - Individual planned programme
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# Principles of Rehabilitation

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- Prevent secondary complications
- Provide environment for recovery
- Treatment
- Modify the patient

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# Modify Patient

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- **Orthoses**
  - **Gastrostomy**
  - **Urinary sheath/pads & pants**
  - **Dental prostheses**
  - **Tools for Living**
  - **Communication**
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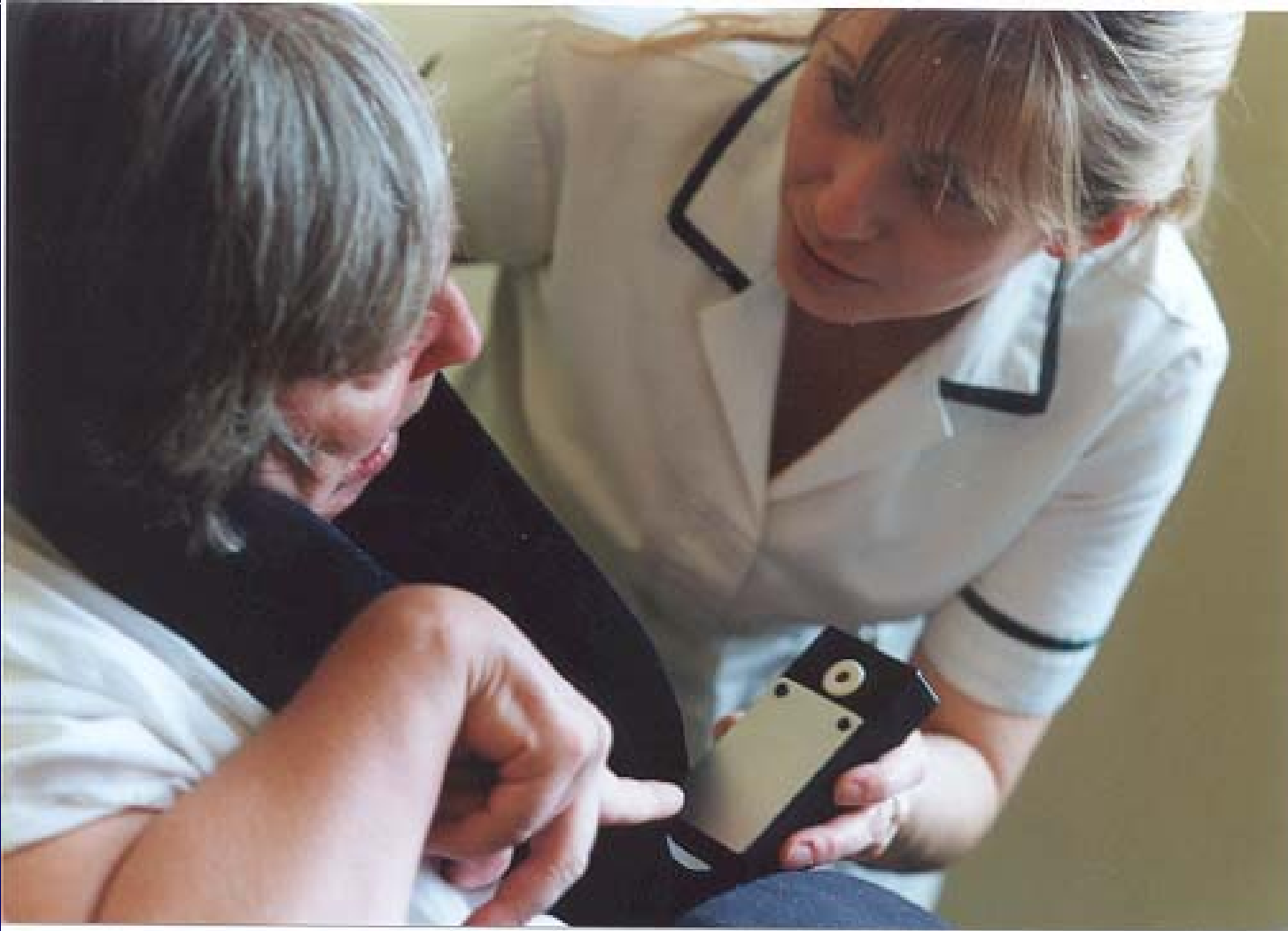


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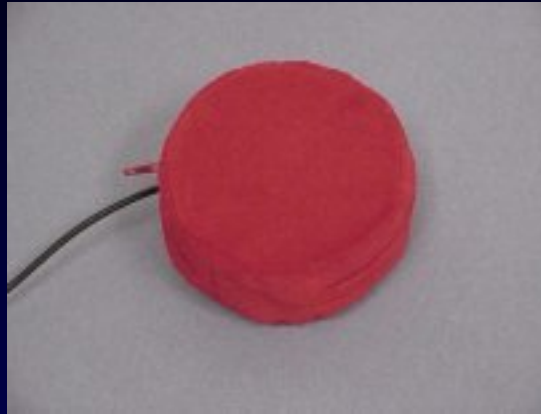


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# Switches



Air Pressure Switch



Cushion Switch



Large Plate Switch



String Switch



Small Plate Switch



Blink Switch



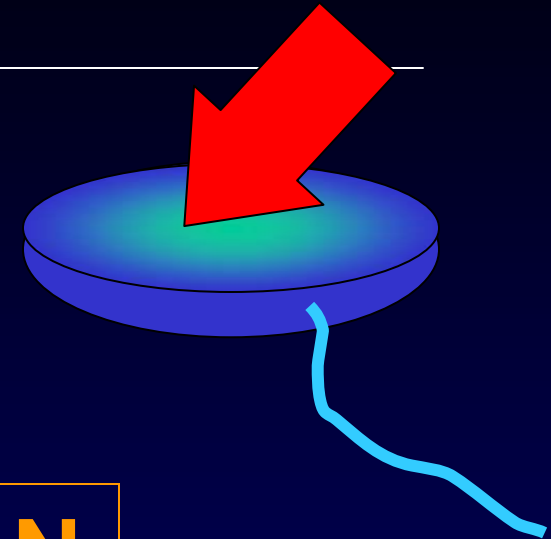
# Scanning





# Scanning

<b>A</b>	B	C	D		
E	F	G	H		
I	J	K	L	M	N
O	P	Q	R	<b>S</b>	T
U	V	W	X	Y	Z





# Scanning

A	B	C	D		
E	F	G	H		
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U	V	W	X	Y	Z



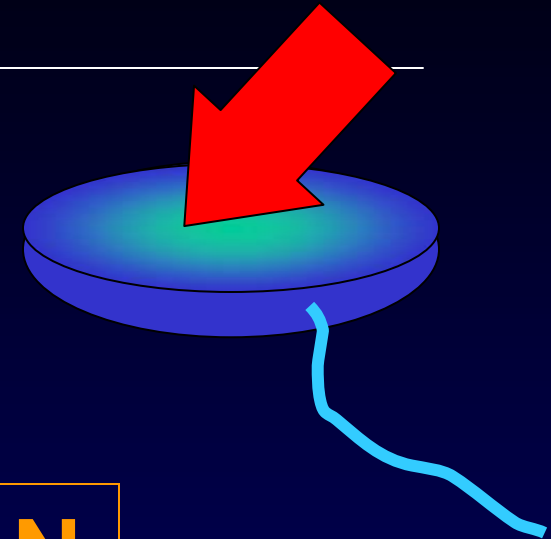
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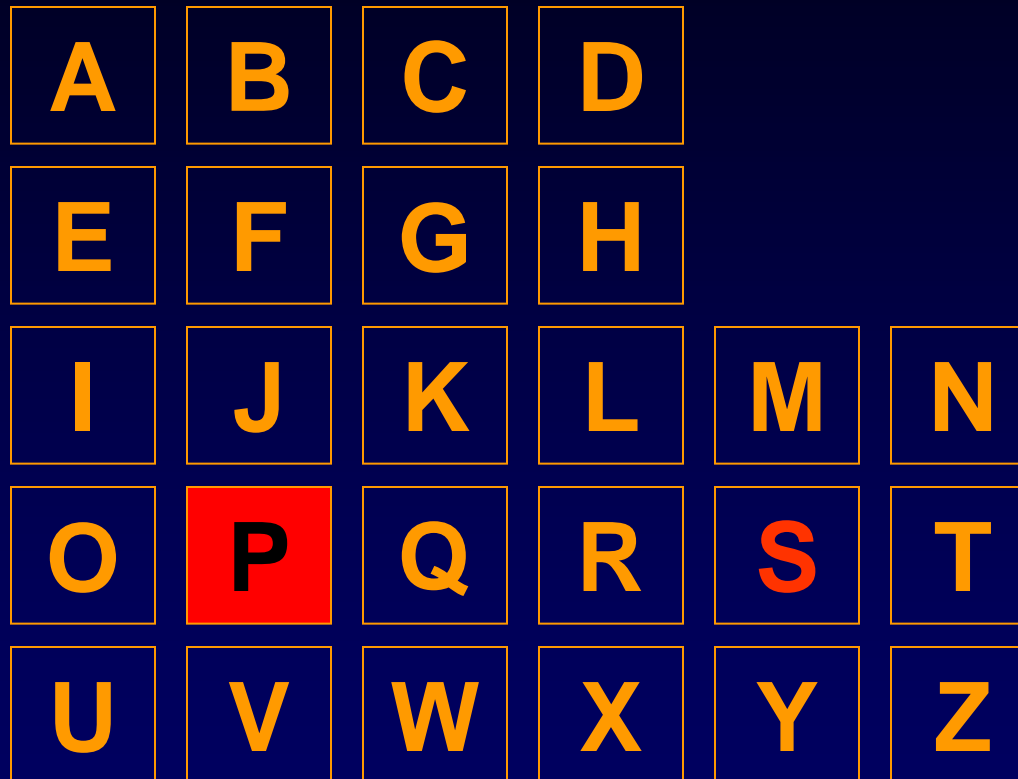
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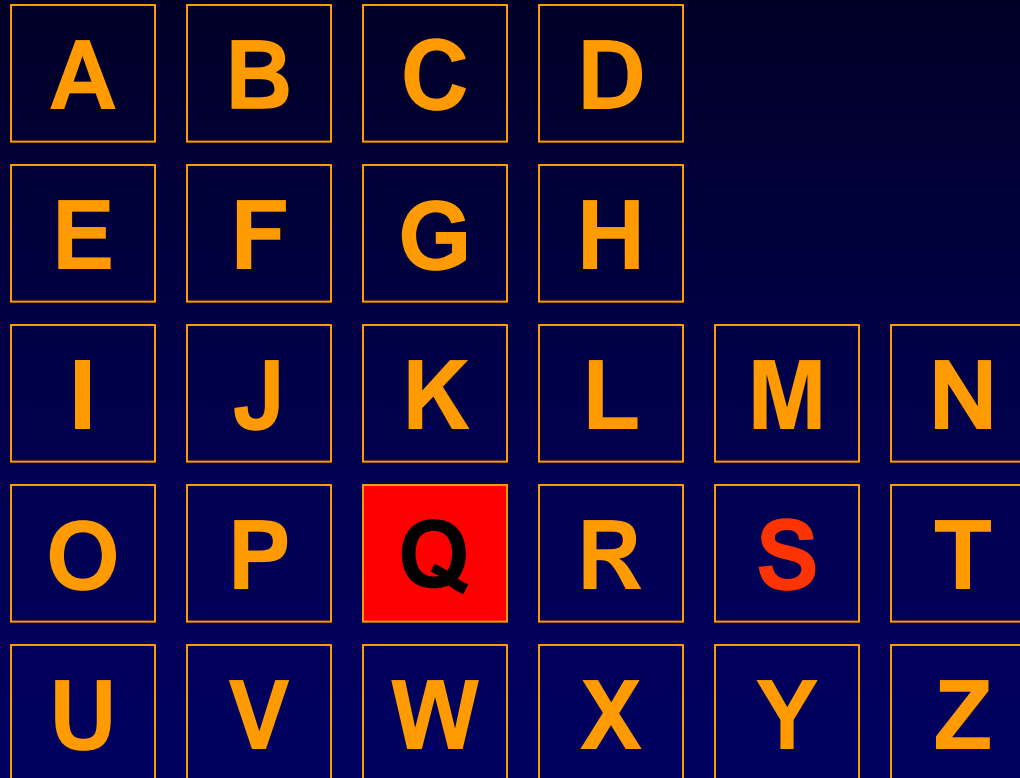


# Critical Overscan





# Critical Overscan





# Critical Overscan

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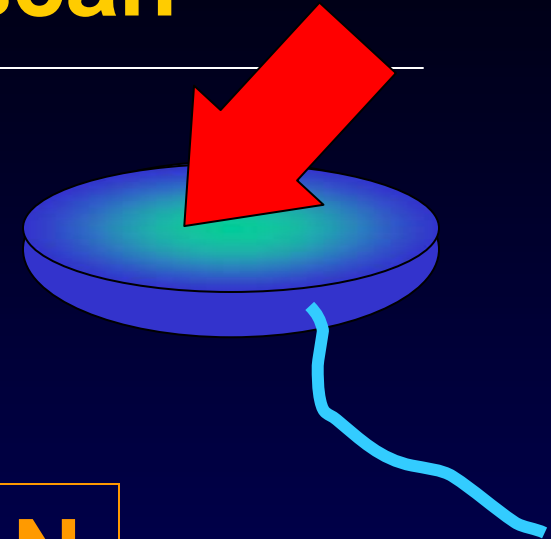
# Critical Overscan





# Critical Overscan

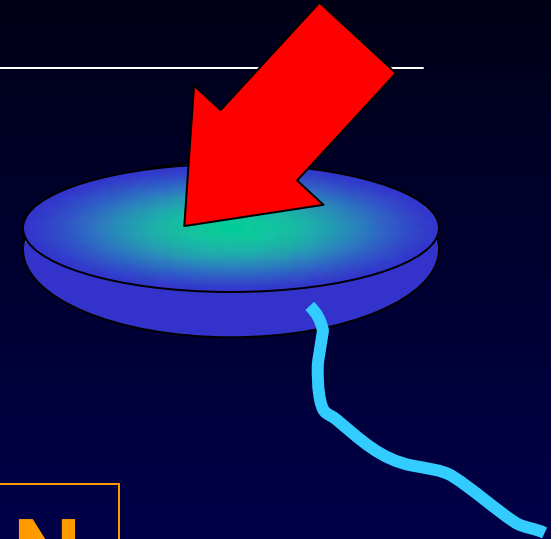
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# Scanning

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>		
<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>		
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<b>O</b>	<b>P</b>	<b>Q</b>	<b>R</b>	<b>S</b>	<b>T</b>
<b>U</b>	<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>



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# Principles of Rehabilitation

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- Prevent secondary complications
- Provide environment for recovery
- Treatment
- Modify the patient
- Modify the environment

# Physical Environment

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- Special seating
- Bed aids
- Bath trolleys
- Hoists
- Standing frames
- Accessibility

# SOCIAL ENVIRONMENT

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- Attitude
- Physical environment
- Social activities
- Family support
- Recreation and leisure

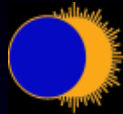


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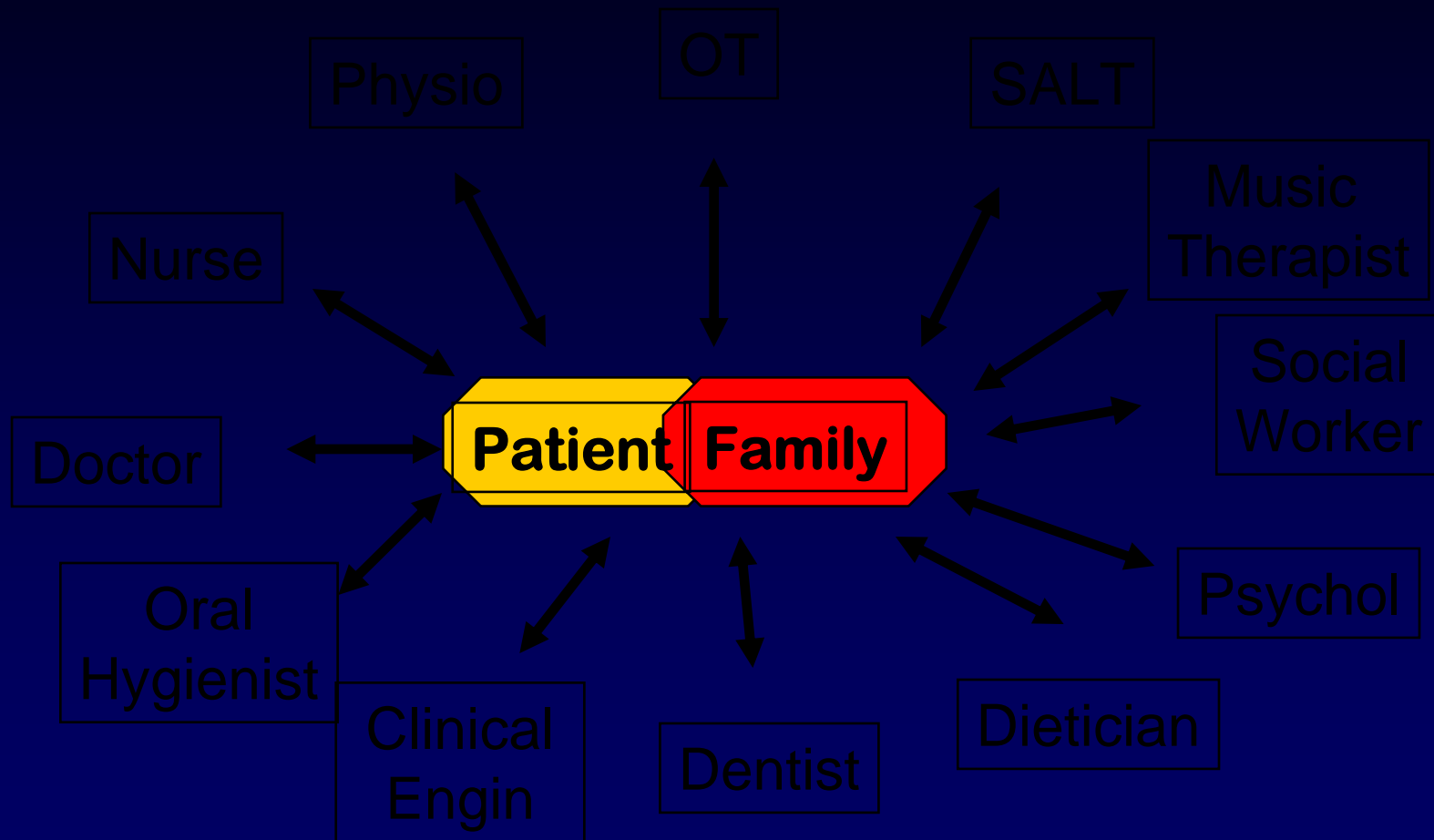


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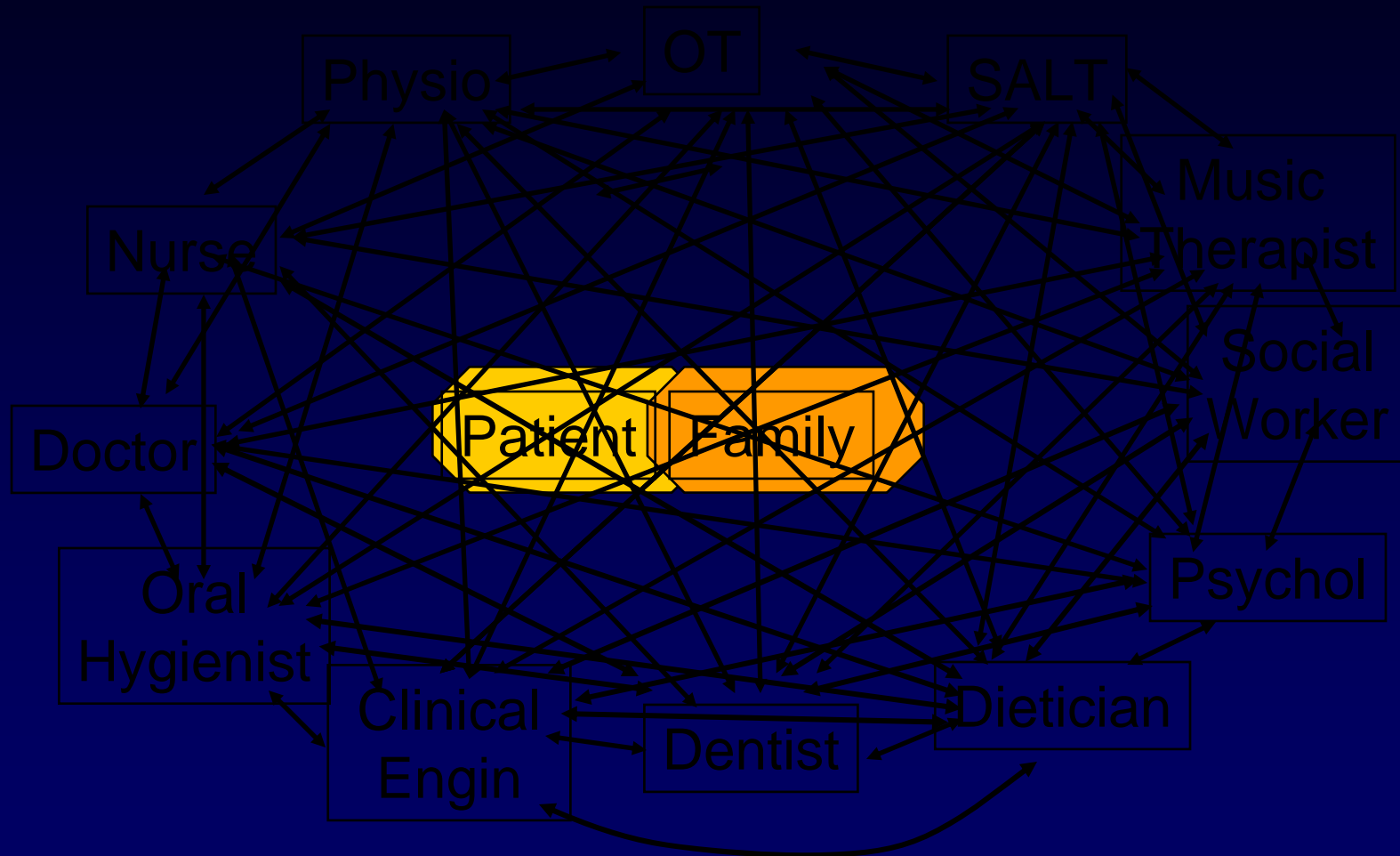


# Multidisciplinary Team



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# Inter-disciplinary Team



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# Complex Disabilities

**PHYSICAL**

**COGNITIVE**

**MEDICAL**

**COMMUNICATION**

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# Skills Required

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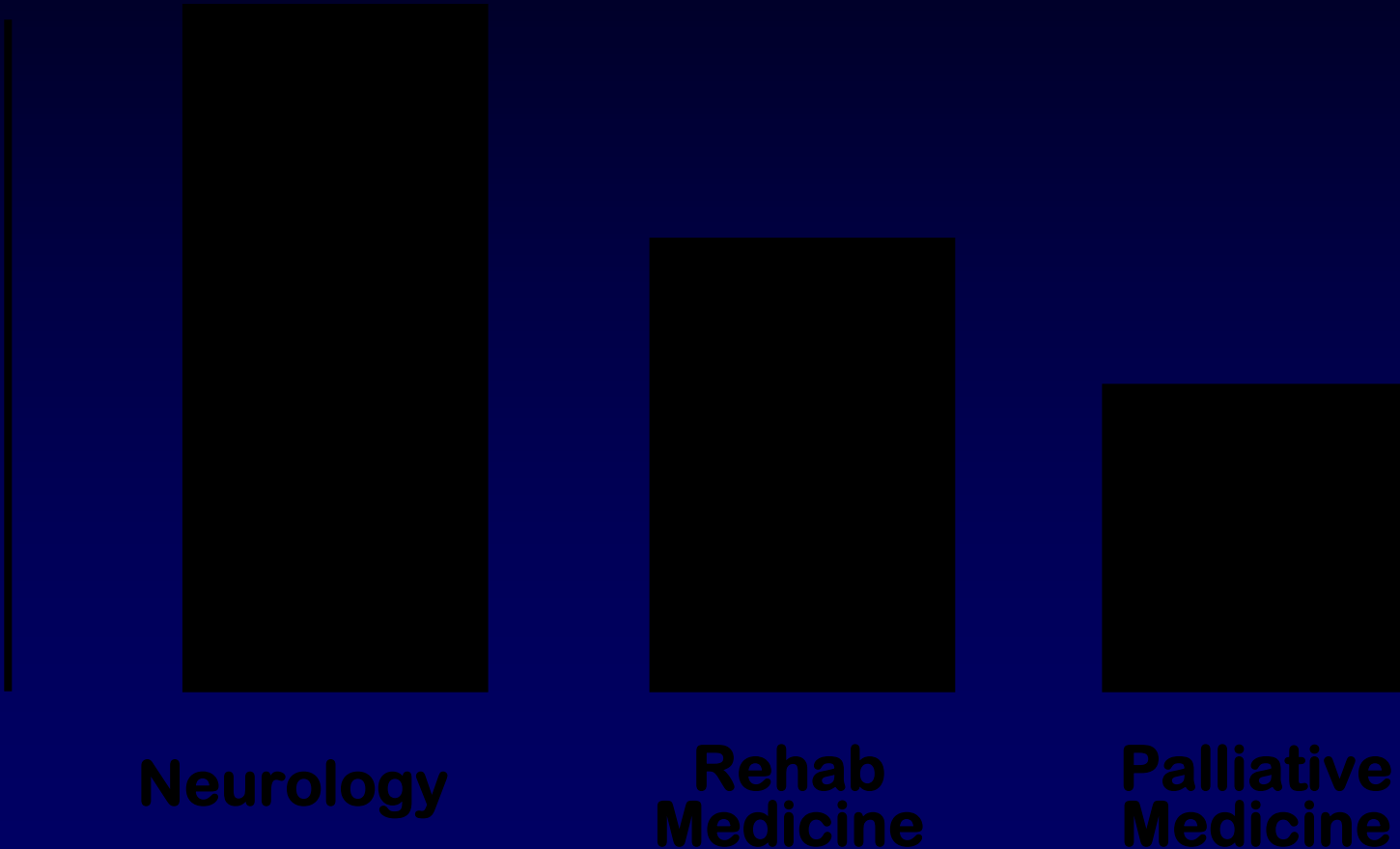
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# Skills – Neuro-Diagnosis

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Neurology

Rehab  
Medicine

Palliative  
Medicine

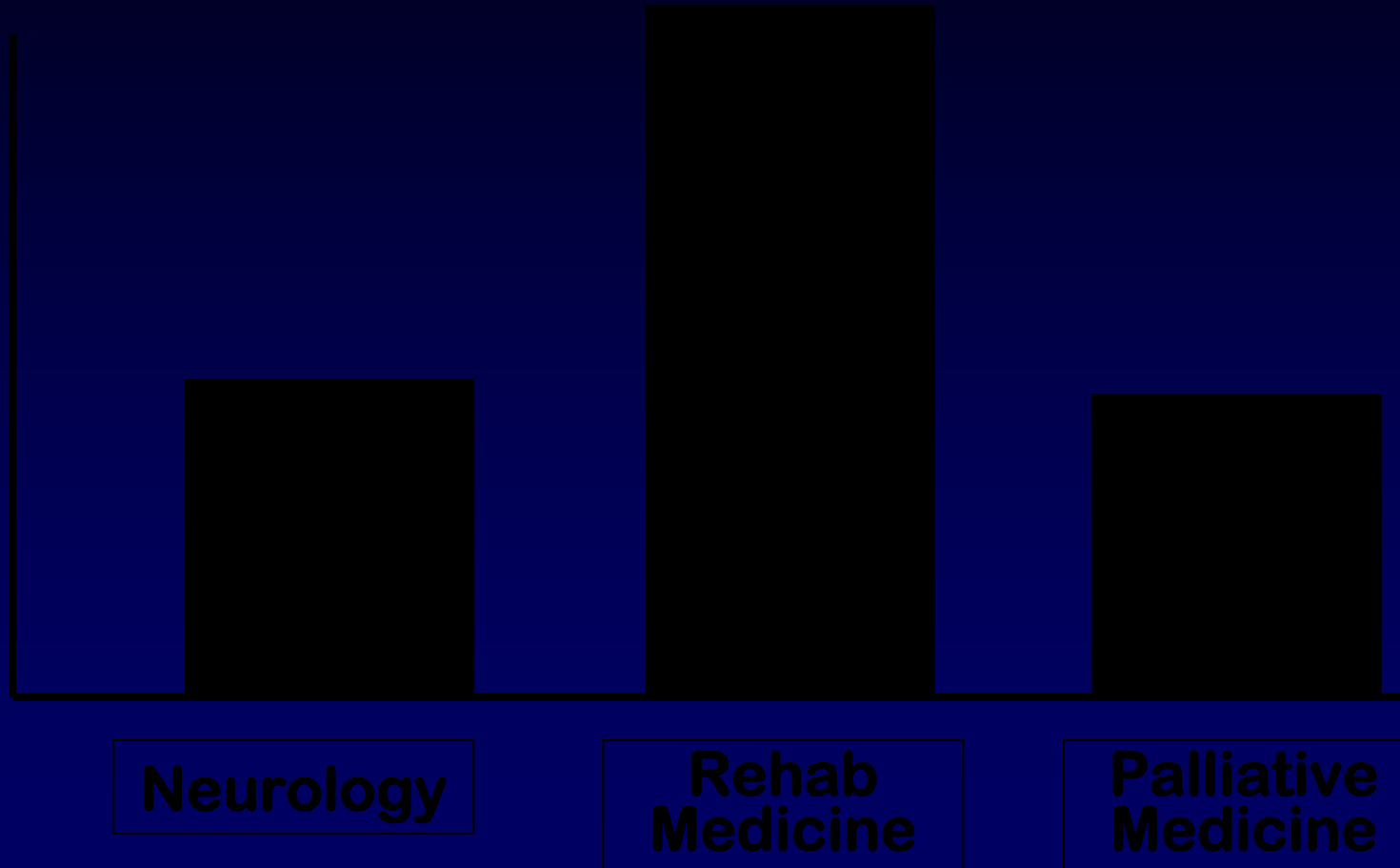
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# Skills – Physical Management



Neurology

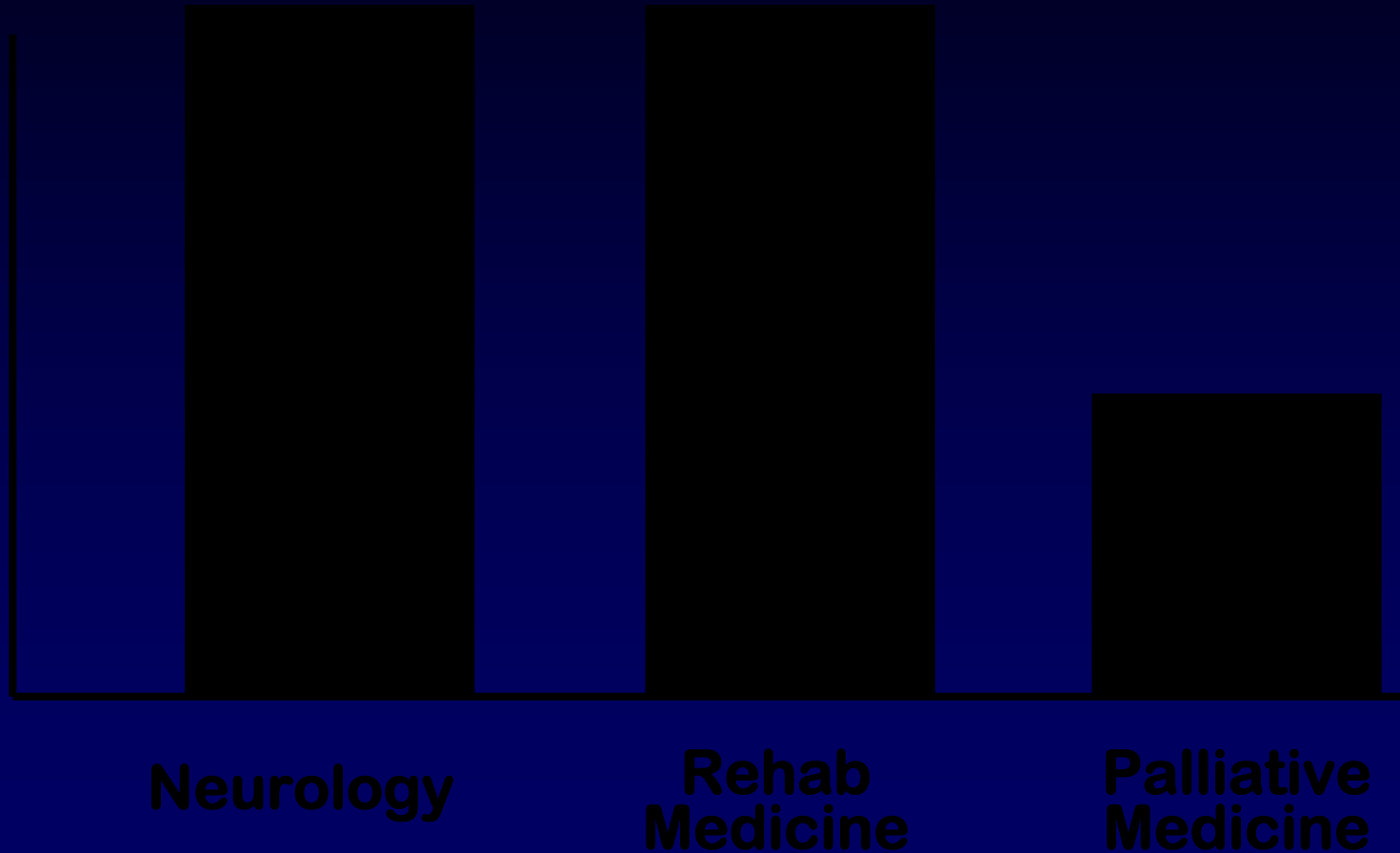
Rehab  
Medicine

Palliative  
Medicine

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# Skills – Spasticity

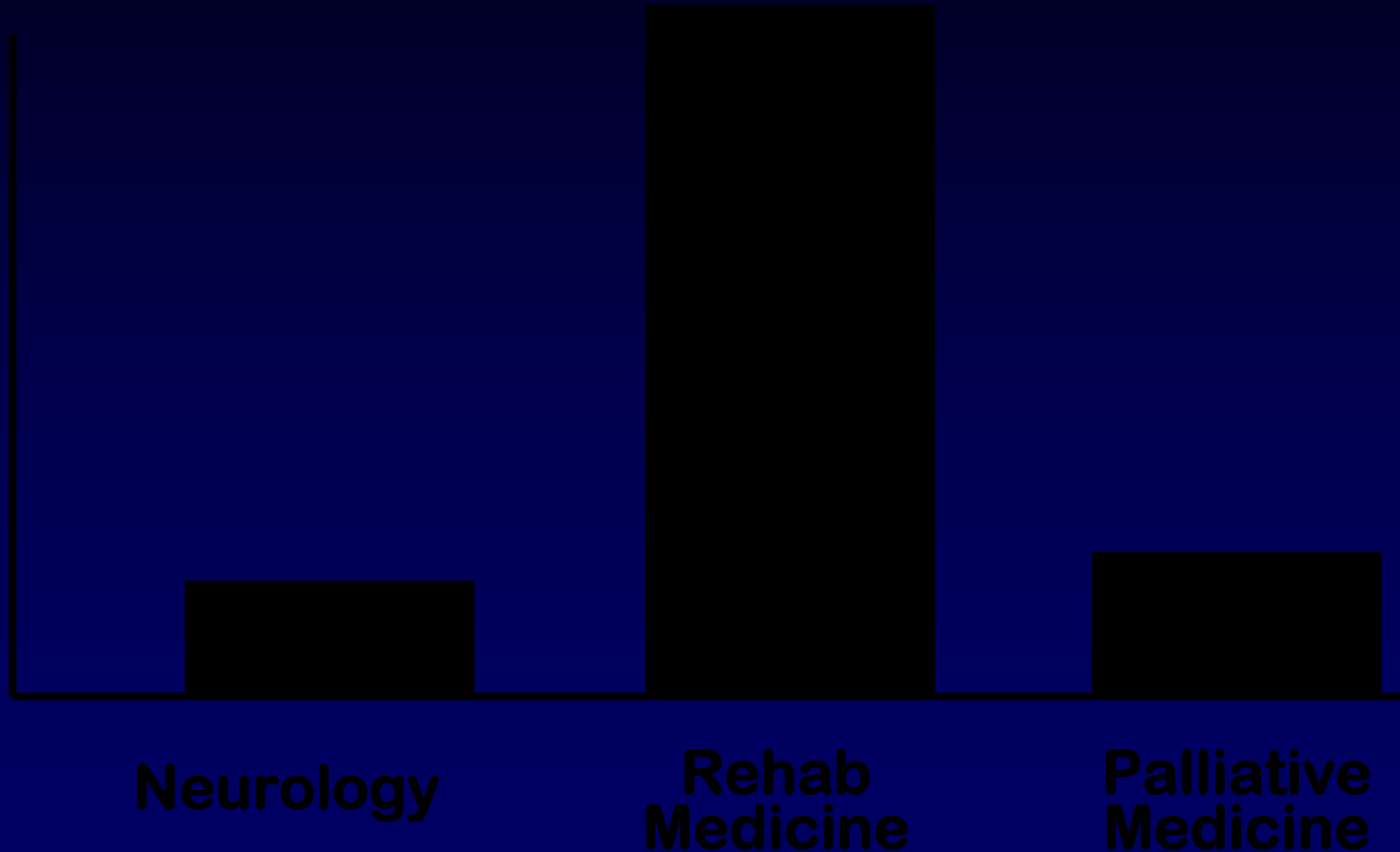


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# Skills – Posture/Seating

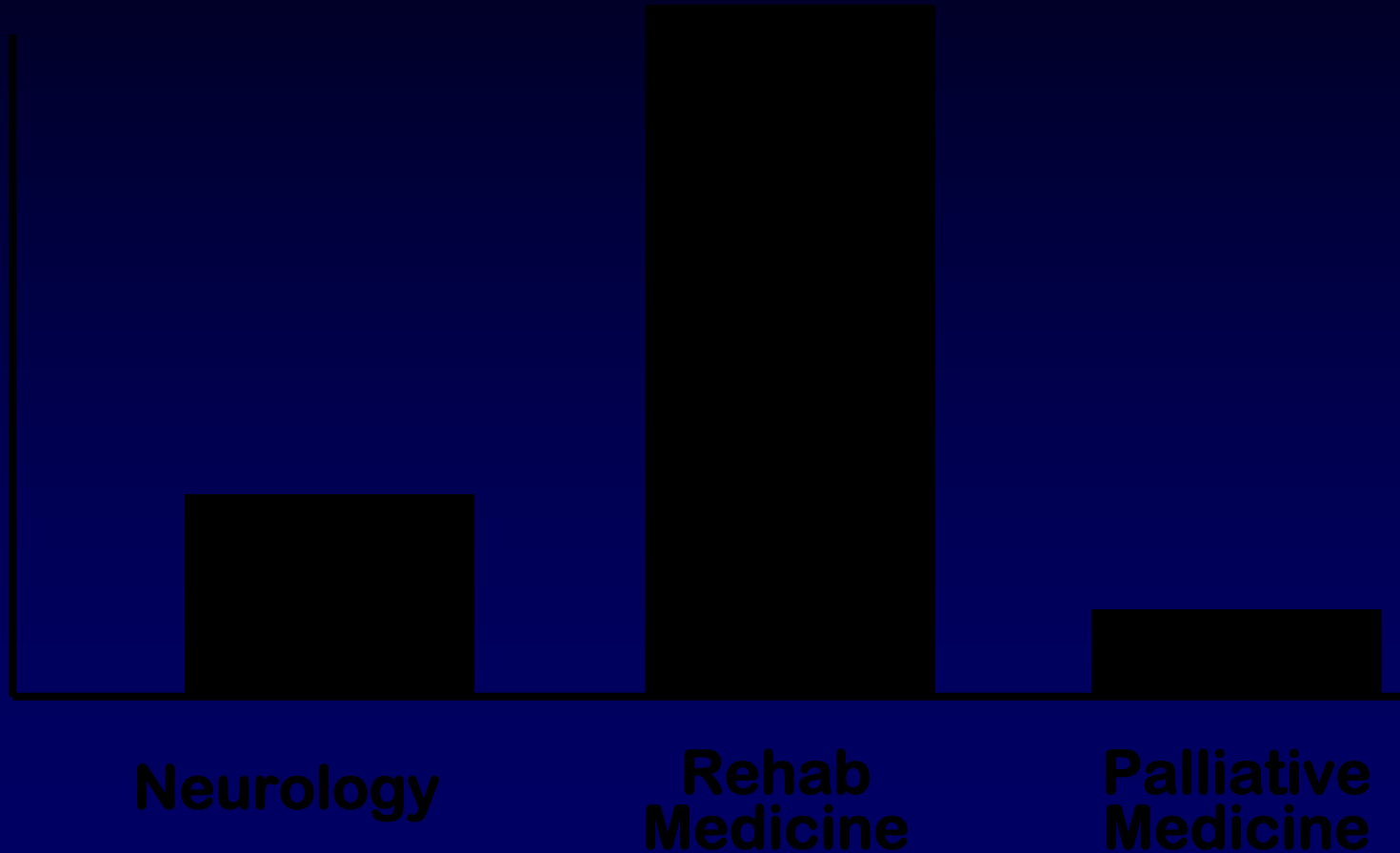


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# Skills – Communication Technology



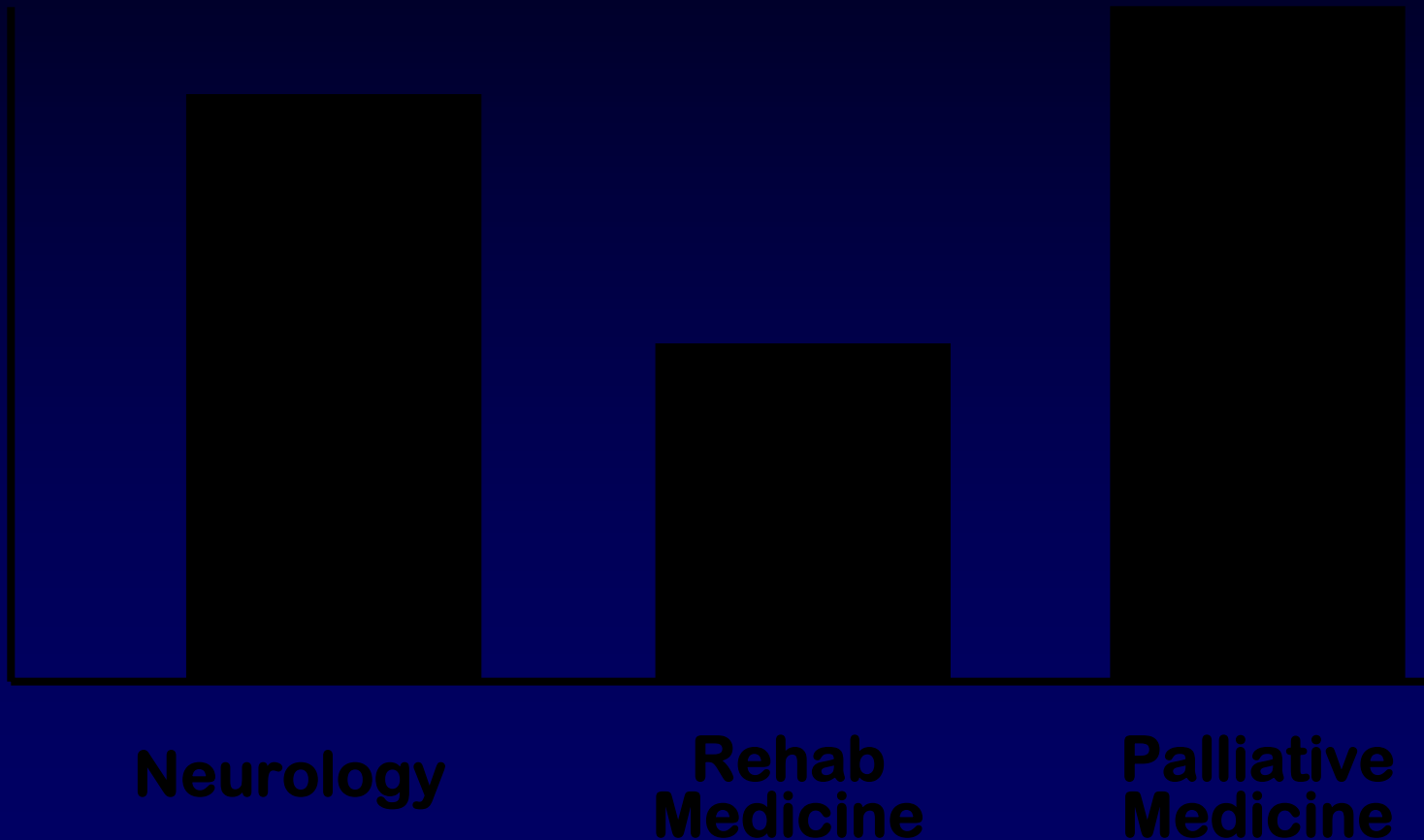
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# Skills – Symptom Control

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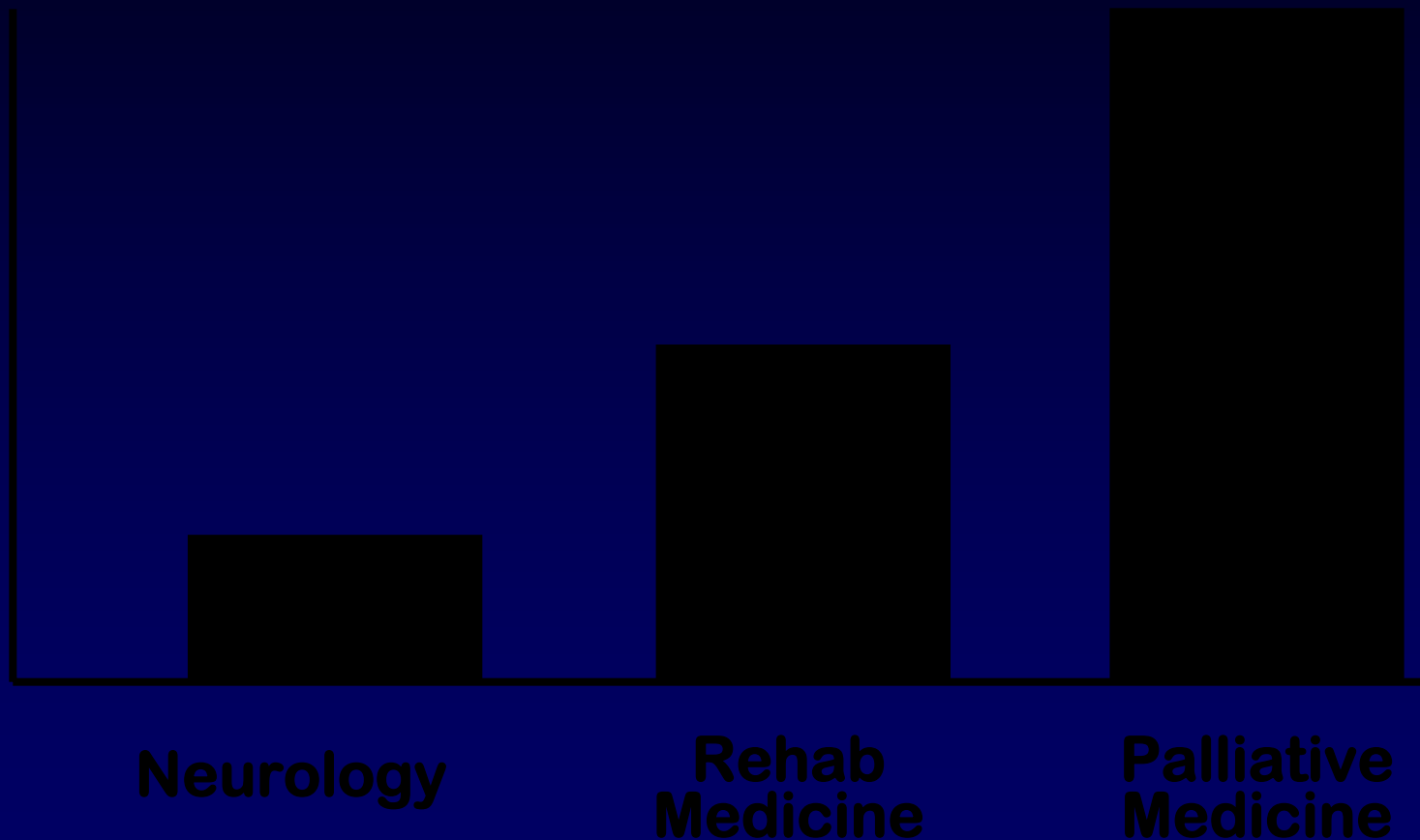
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# Skills – Spiritual Support



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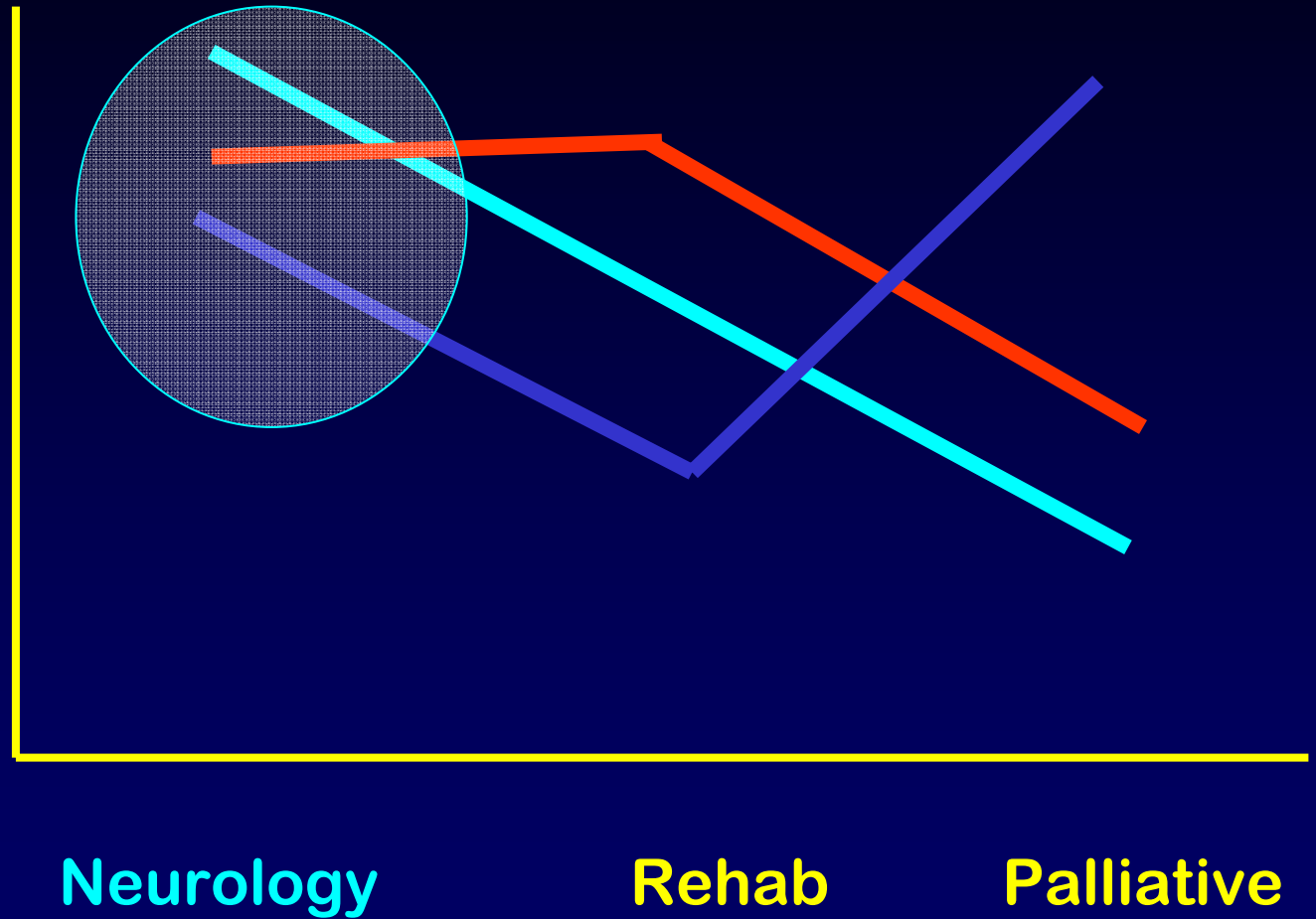


# Neuropalliative Care

Diagnosis

Spasticity

Symptom Control

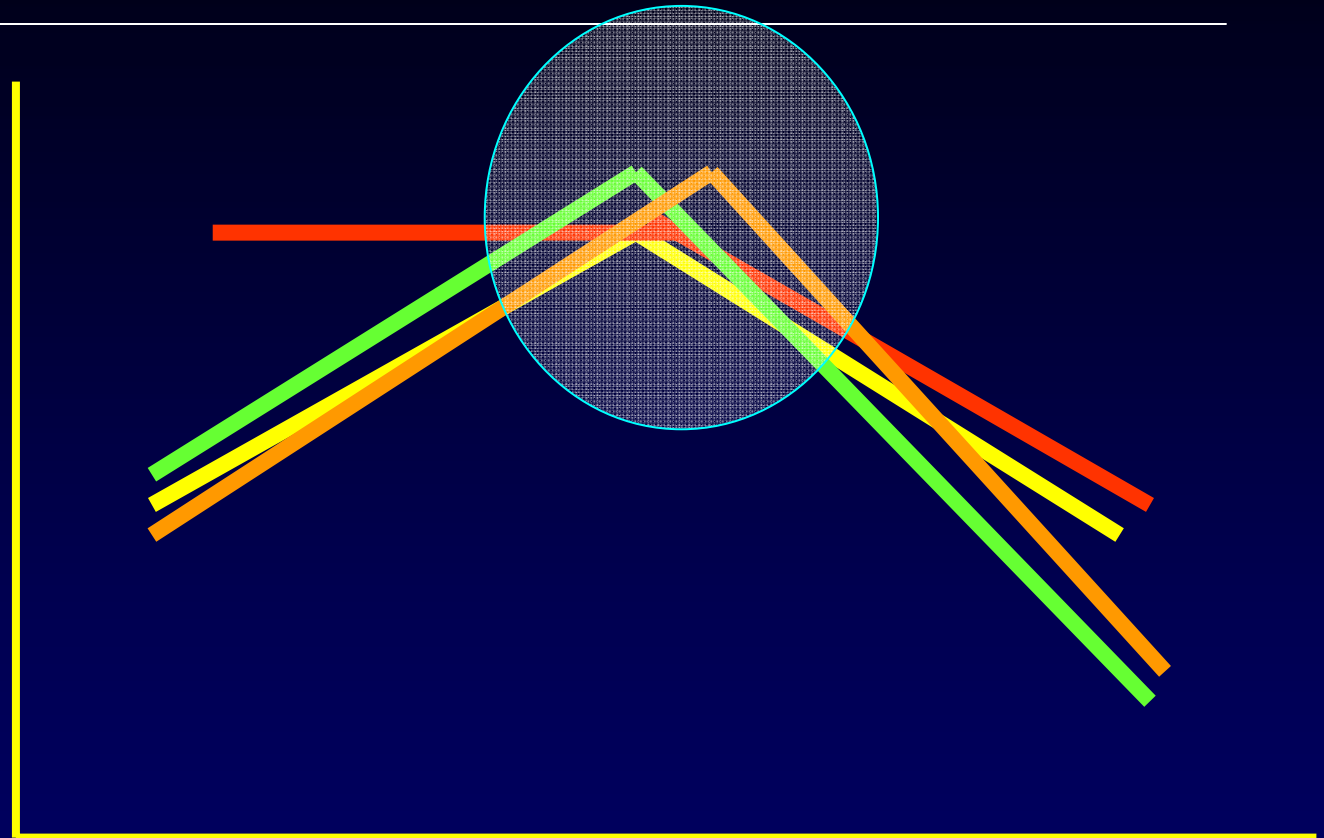


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# Neuropalliative Care

**Physical**  
**Spasticity**  
**Posture/seating**  
**Communication/  
technology**



**Neurology**

**Rehab**

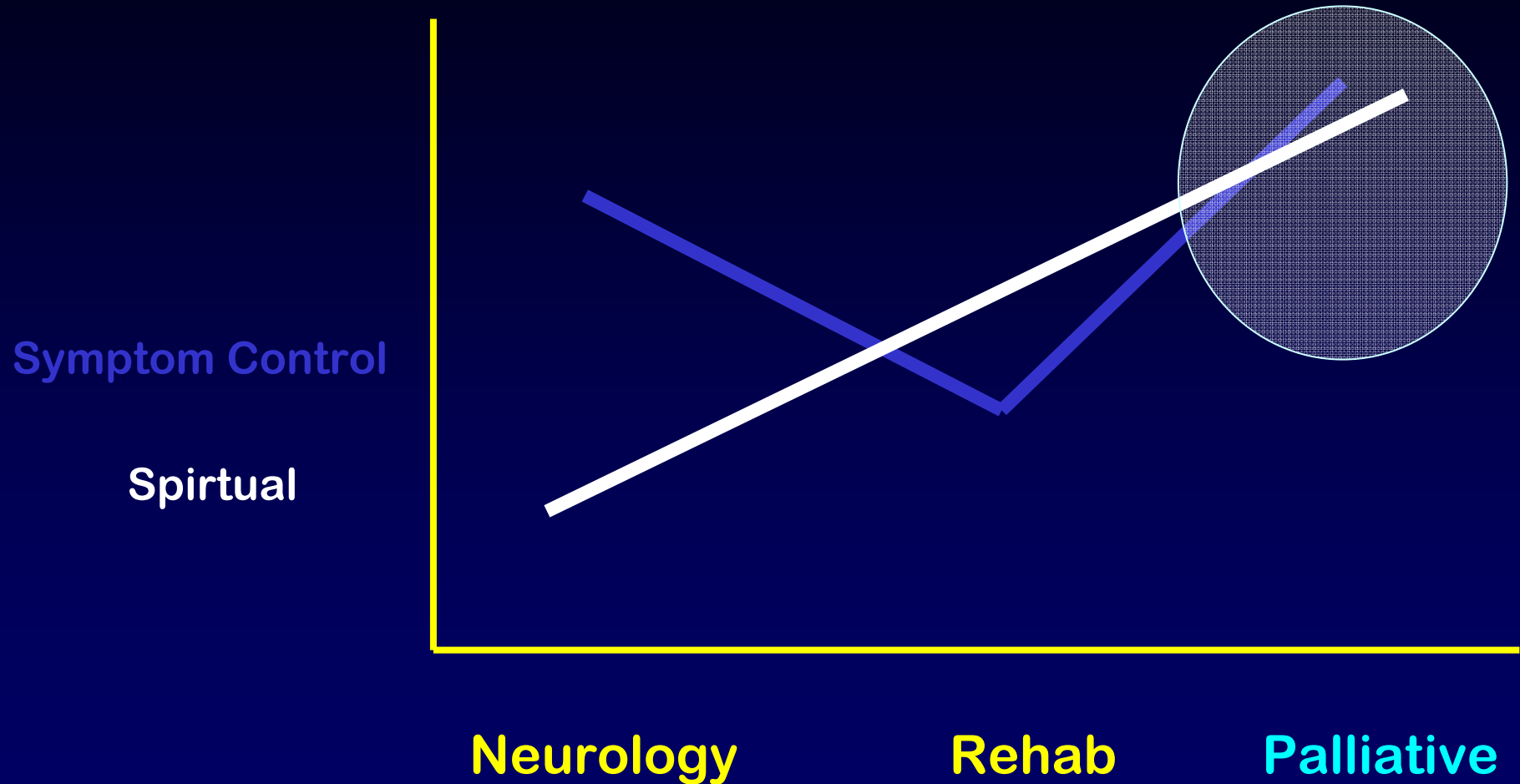
**Palliative**

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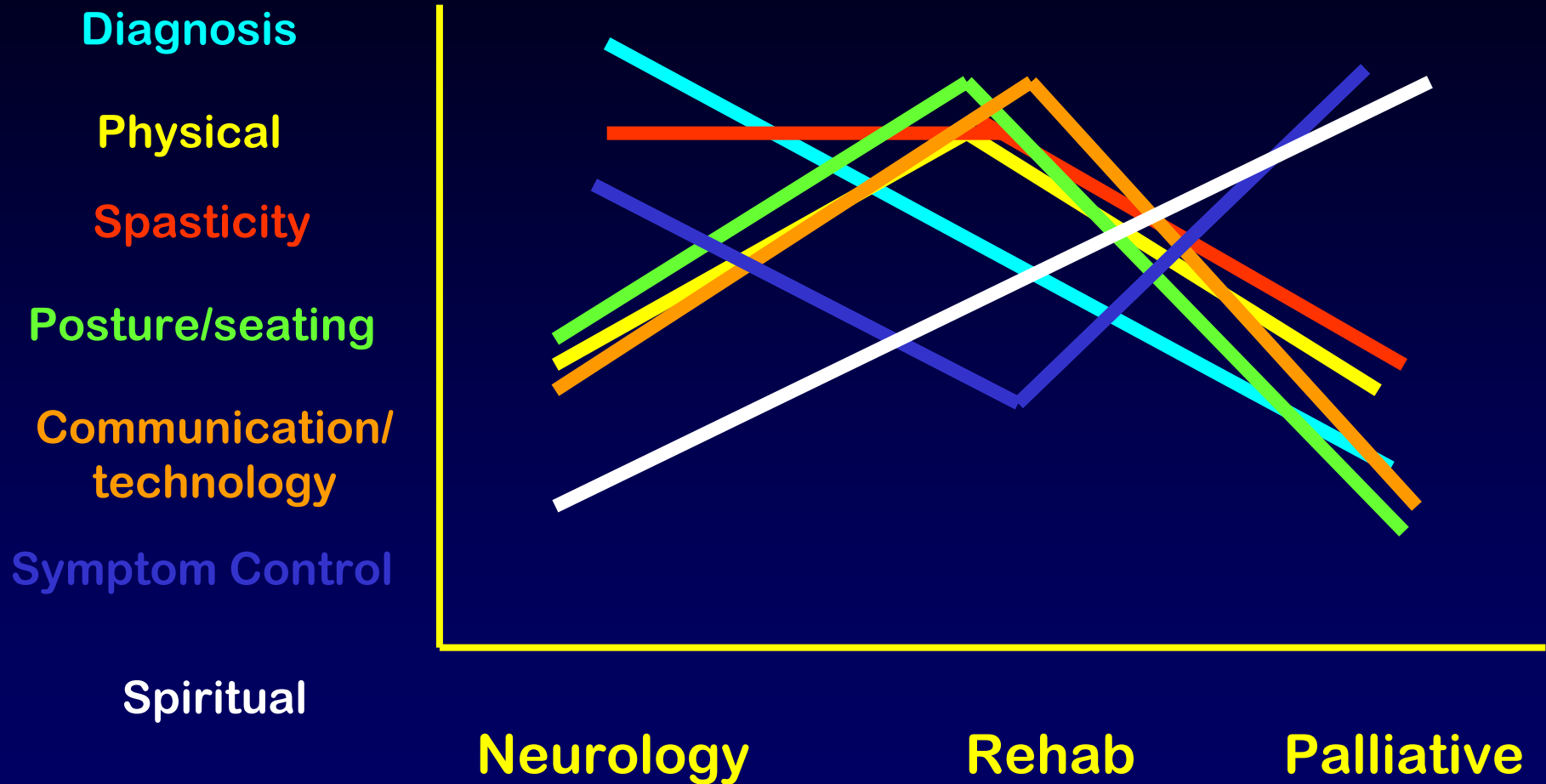
# Neuropalliative Care



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