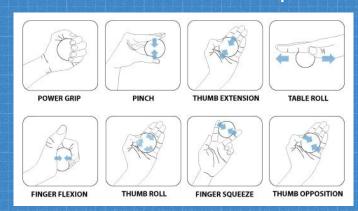


# VIRTUAL REALITY & HAND REHABILITATION

Julia-Marie Guinto

## HANDS-ON TREATMENTS

- → Focuses on repetitive movements
- → Strength and mobility
  - ◆ Range of motion
- → Grip and pinch
- → Flexion and extension
- → Pronation and supination





## HOW DOES VR HAND REHAB WORK?

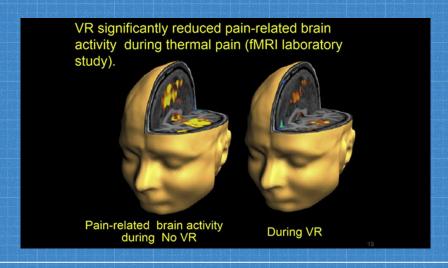
- → Gamification
- → Immersive, completely simulated virtual world
- → Hand gesture recognition
- → Repetitive exercises and specific tasks given





## BENEFITS OF VR HAND REHAB

- → Improved patient engagement
- → Attention distraction
- → Ease of use
- → Pain reduction/management



# THE FUTURE OF VR HAND THERAPY

- → Newer VR systems
- → New uses (chronic pain/exposure therapy)
- → Upgrades





### Sources

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rtual-reality-therapy.html