

Virtual Reality and Rehabilitation Medicine

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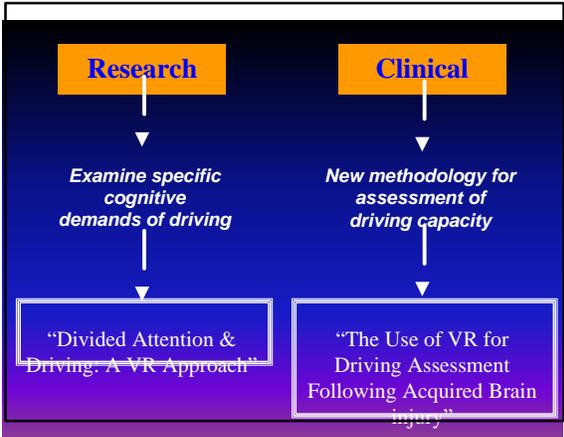
Rehabilitation

- Examines physical, cognitive and emotional changes that can occur from....
 - Traumatic brain injury
 - Stroke
 - Multiple Sclerosis
- Goal: return to activities of daily living.....
 - work
 - drive
 - school

Traditional Methods

VR Benefits

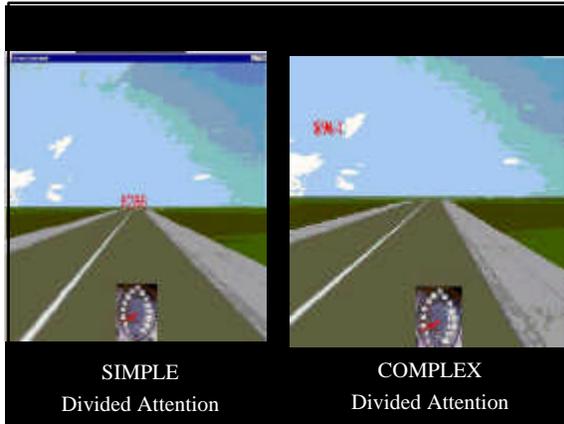
- increased standardization
- “real-life” testing & training environments
- control of stimulus presentation and response
- increased generalization of learning
- safe assessment of hazardous situations
- increased user participation



Divided Attention & Driving

System:

- Flat-screen VR
- JAVA 3D programming
- Gateway Pentium III
- WingMan Steering Wheel and pedals



VR-Driving Assessment System

Subjects:

- traumatic brain injury
- stroke
- healthy controls

System:

- JAVA 3D programming
- Gateway Pentium III
- ProView XL HMD
- ThrustMaster Steering Wheel and pedals



(video)