

BASE PACK FOR SIGMA PLATFORM

2025.1



Hardware requirements	
What is needed?	
Therapeutic tasks database	
Movement time	
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WHAT IS NEEDED?

Please make sure the PC where you want this module to be active have VAST.Rehab Patient Panel installed and that the following hardware requirements are met:

- Windows 10/11
- Intel Core i5 (8th gen or newer). Important: Avoid ultra-low-power versions (e.g., i5-8250U), as they may not meet performance requirements. Prefer standard or high-performance CPUs.
- Minimum: 8 GB RAM (16 GB or more recommended for optimal performance).





MOVEMENT TIME

DYNAMIC TEST

Measure time taken to carry out a movement of a limb or other part of the body. It is measured from rest to target position.

CONTROL MODES





RESULTS



ADJUSTMENTS

- Base type
- Range
- Customize feet position
- Show path
- Repetitions

OBJECTIVES

- Test the limits of balance and equilibrium
- Dynamics of planned movements

INSTRUCTION FOR PATIENT

Move the dot to the highlighted target and hold it for a moment. Next target will be highlighted.











MOVEMENT PRECISION

FISH

Measure and train individual's skills to perform specific movement patterns with predefined speed and range.

CONTROL MODES



RESULTS





ADJUSTMENTS

- Base type
- Task duration
- Movement mode
- Range
- Route shape
- Customize feet position
- Speed of objects

OBJECTIVES

- 3D space movements reproduction
- Planned movements
- Muscle strengthening
- Movement precision
- Visual motor coordination

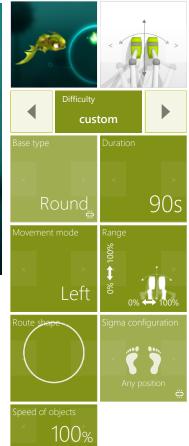
INSTRUCTION FOR PATIENT

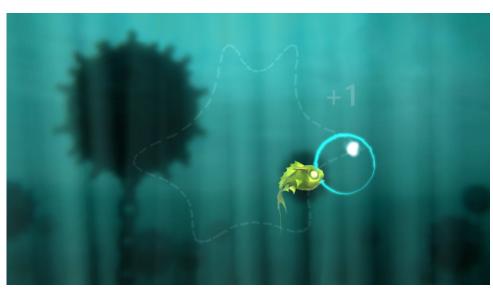
Move the blue circle to protect the sparks source from the fish. When the sparks source is inside the circle it is safe.

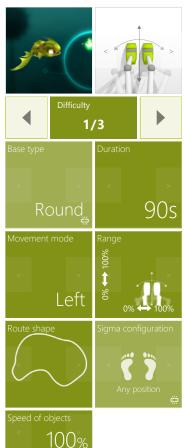
















MOVEMENT PRECISION

GRAPH

Measure and train individual's skills to perform specific movement patterns with predefined speed and range.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Graph shape (sinus or square, amplitude, border, etc.)
- Base type
- Task duration
- Range
- Customize feet position

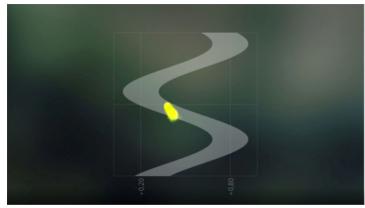
OBJECTIVES

- Movement precision
- Activity in a given rhythm
- Repetitive movements

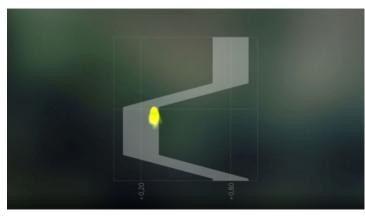
INSTRUCTION FOR PATIENT

Try to stay within the borders.

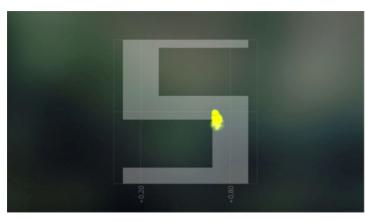


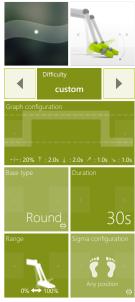
















VAMPIRES

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS











ADJUSTMENTS

- Positions to have targets on
- Base type
- Task duration
- Range
- Customize feet position
- Time between objects
- Time to react

OBJECTIVES

- Visual motor coordination
- Exercise with or without support from healthy limb
- Spontaneous movements in 3D space
- Speed of movement

INSTRUCTION FOR PATIENT

Use your sword to knock down flying vampires who want to bite you!

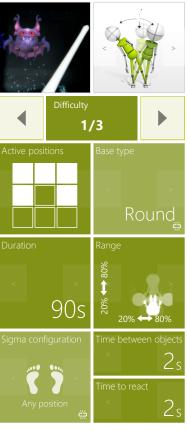
















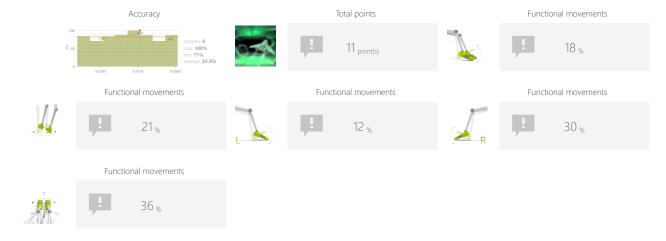
AIRPLANE

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Speed
- Base type
- Task duration
- Range
- Customize feet position

OBJECTIVES

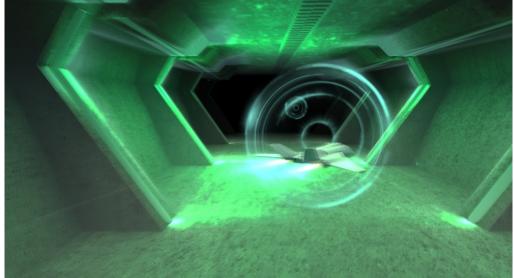
- Focusing
- Perceptivity
- Movement precision
- Predicting the trajectory of objects in 3D space

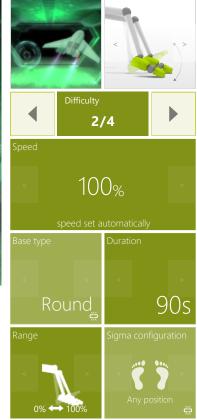
INSTRUCTION FOR PATIENT

Make the airplane fly through the circles. The closer to the center it flies the more points you get.

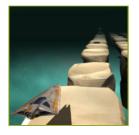












STONES

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Speed
- Base type
- Task duration
- Range
- Customize feet position

OBJECTIVES

- Perceptivity
- Dynamics of planned movements
- Reaction to the positive visual stimuli
- Response to negative visual stimuli

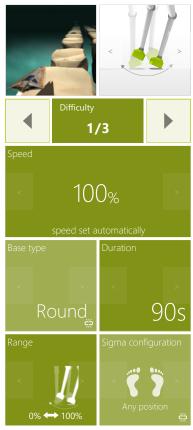
INSTRUCTION FOR PATIENT

Make the spaceship collect the colorful creatures and avoid the rocks.











HAMMER

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS











ADJUSTMENTS

- Positions to have targets on
- Base type
- Task duration
- Range
- Customize feet position
- Time to react
- Reticle size

OBJECTIVES

- Planning and Strategy
- Speed of decision making

INSTRUCTION FOR PATIENT

Hit the burning barrels as quickly as you can. Then return to the center.













RUNAWAY

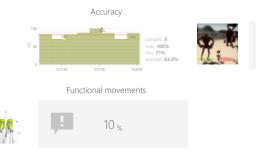
Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES





RESULTS



ADJUSTMENTS

- Base type
- Task duration
- Range
- Customize feet position
- Number of enemies
- Enemies speed

OBJECTIVES

• Predicting the trajectory of objects in 3D space

Functional movements

23 %

- Response to negative visual stimuli
- Focusing

Total points

32 point(s)

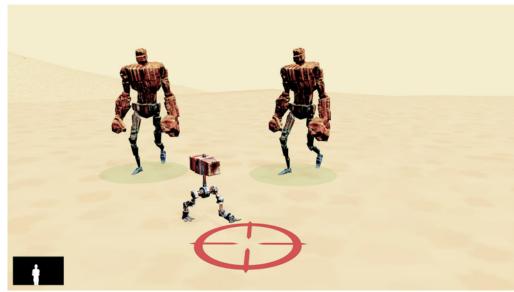
Perceptivity

INSTRUCTION FOR PATIENT

Keep away from the big robots.















AUTOMATIC CANNON

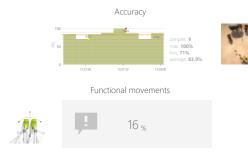
Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES





RESULTS



ADJUSTMENTS

- Base type
- Task duration
- Range
- Customize feet position
- Enable distractors
- Time between cannonballs
- Time between enemies
- Enemies speed

OBJECTIVES

Total points

22 point(s)

- Divided attention
- Spontaneous movements
- Predicting the trajectory of objects

INSTRUCTION FOR PATIENT

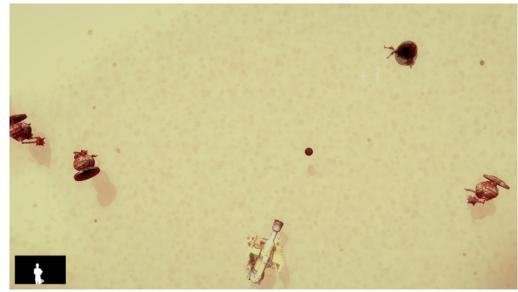
Control cannon(s) to destroy robots, but avoid hitting the elephant!

Functional movements

10 %

















BOX CRUSHER

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS











ADJUSTMENTS

- Positions to have targets on
- Base type
- Task duration
- Range
- Customize feet position
- Required force

OBJECTIVES

- 3D space movements reproduction
- Movement awareness
- Muscle strengthening
- Repetitive movements

INSTRUCTION FOR PATIENT

Smash boxes with the club.









AMBULANCE

Measure and train individual's skills to perform movements based on real-world situational biomechanics. They usually involve multi-planar, multi-joint movements which place demand on the body's core musculature and innervation.

CONTROL MODES



RESULTS











ADJUSTMENTS

- Speed
- Base type
- Task duration
- Range
- Customize feet position
- Distance between cars

OBJECTIVES

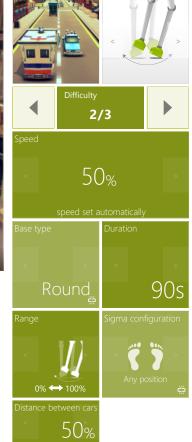
- Dynamics of planned movements
- Focusing
- Speed of decision making
- Visual motor coordination

INSTRUCTION FOR PATIENT

Go as fast as you can and avoid hitting other cars.















DIVIDED ATTENTION SORTER

Measure and train individual's skills to successfully execute more than one action at a time, while paying attention to two or more channels of information.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Base type
- Task duration
- Range
- Customize feet position
- Number of objects
- Gap size
- Speed of objects

OBJECTIVES

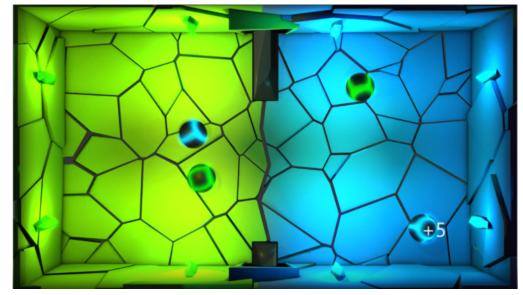
- Predicting the trajectory of objects
- Focusing
- Perceptivity
- Movement precision
- Exercise with or without support from healthy limb

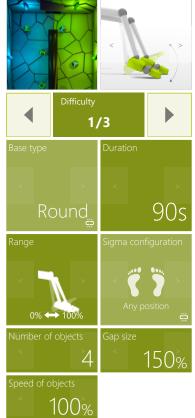
INSTRUCTION FOR PATIENT

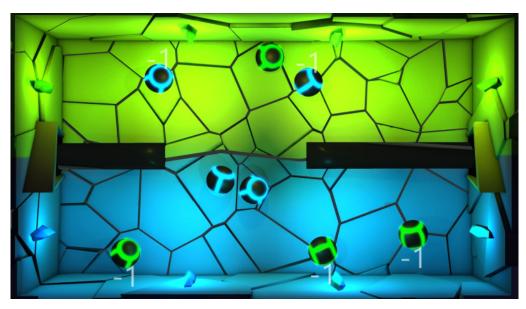
Pass or block the balls so that the blue balls are on the blue side and the green balls are on the green side of the screen.





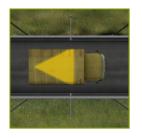












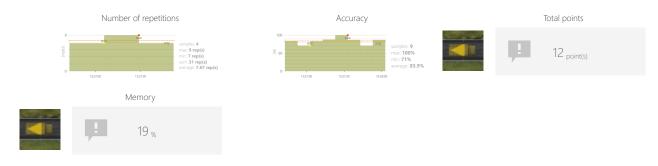
MEMORY TRUCKS

Measure and train individual's skills to memorize information.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Base type
- Task duration
- Range
- Customize feet position
- Variations

OBJECTIVES

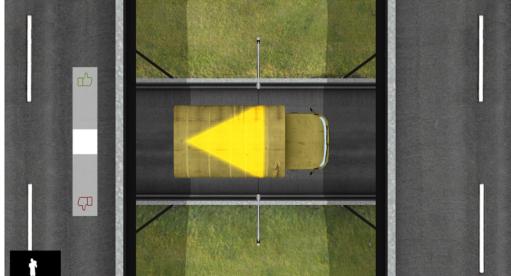
- Logical tasks
- Focusing
- Perceptivity

INSTRUCTION FOR PATIENT

Remember the shape and/or its color on the roof of the car you see. Decide with thumbs up or down whether the next car has the same shape and/or color on the roof as the previous one.











SPECIALIZED BLOOD PRESSURE

Specialized tasks and evaluations that collect data from multiple categories or do have a unique objectives.

CONTROL MODES



ADJUSTMENTS

- Base type
- Customize feet position

OBJECTIVES

• Monitor external parameters

INSTRUCTION FOR PATIENT

Measure yourself your blood pressure and type it in the result.





SPECIALIZED

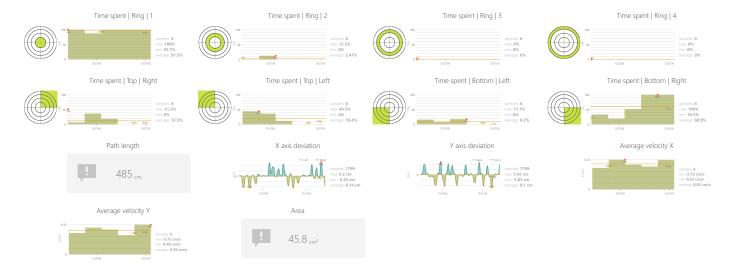
STABILITY TEST

Specialized tasks and evaluations that collect data from multiple categories or do have a unique objectives.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Base type
- Time to complete action
- Customize feet position
- Show feedback
- Radius

OBJECTIVES

- Relaxation
- Postural stability

INSTRUCTION FOR PATIENT

Keep your body balanced.

