

FULL BODY EVALUATIONS

2021.4



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WHAT IS NEEDED?

HARDWARE REQUIREMENTS

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
- INTEL i5 processor
- 8GB RAM
- nVidia RTX2060 graphic card
- Azure Kinect sensor





RANGE OF MOTION CRYSTALS

Measure and gently motivate to increase individual's range of motion in predefined movement patterns.

CONTROL MODES

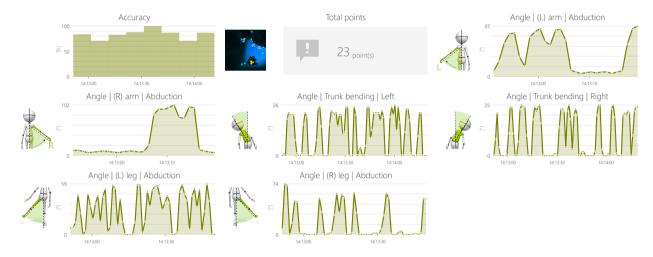








RESULTS



ADJUSTMENTS

- Task duration
- •
- Player speed

OBJECTIVES

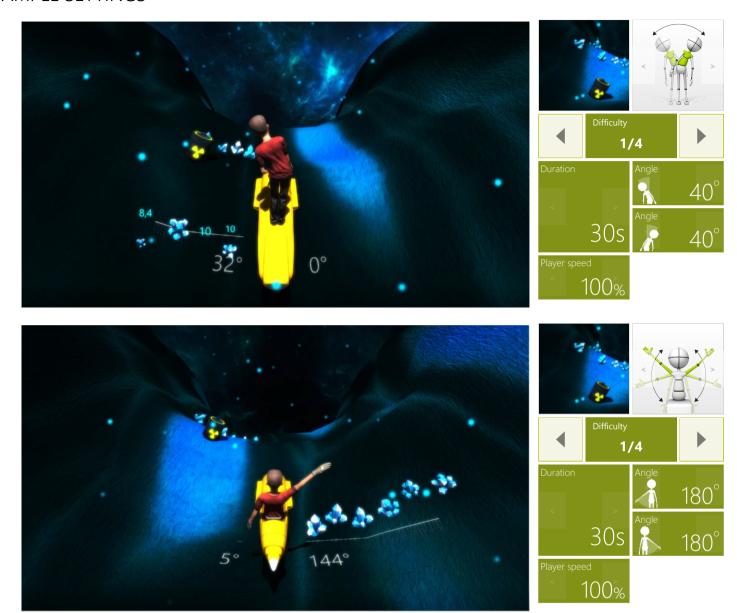
- Improve range of motion
- Perceptivity
- Response to negative visual stimuli
- Reaction to the positive visual stimuli

INSTRUCTION FOR PATIENT

Collect the crystals and avoid the radioactive barrels







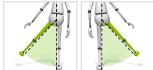


RANGE OF MOTION

ANGLES EVALUATION

Measure and gently motivate to increase individual's range of motion in predefined movement patterns.

CONTROL MODES









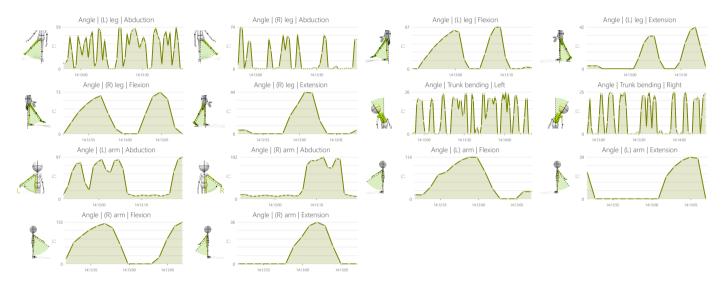








RESULTS



OBJECTIVES

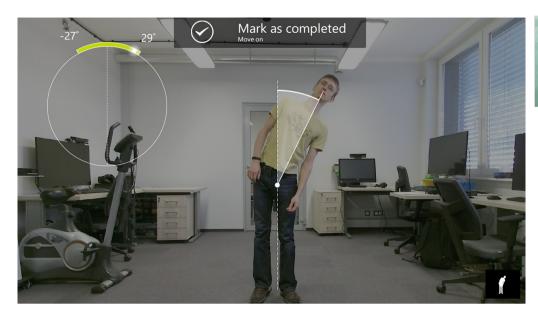
• Range of motion examination

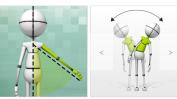
INSTRUCTION FOR PATIENT

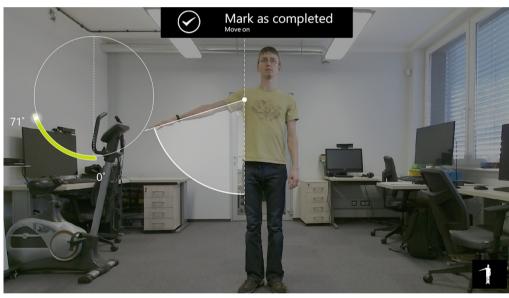
System will measure your range of motion

















RANGE OF MOTION

REACH TEST

Measure and gently motivate to increase individual's range of motion in predefined movement patterns.

CONTROL MODES



RESULTS



OBJECTIVES

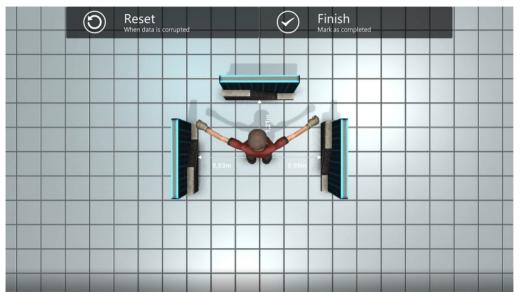
- Range of motion examination (transverse plane)
- Test the limits of balance and equilibrium

INSTRUCTION FOR PATIENT

Push the walls as far from you as you can keeping your legs in place













MOVEMENT TIME REACT

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

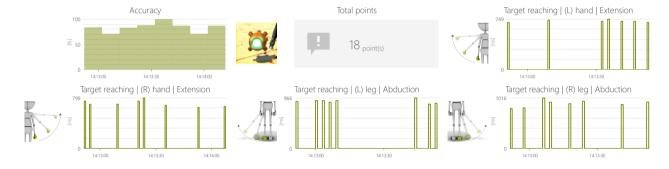








RESULTS



ADJUSTMENTS

- Task duration
- Time to react
- Distance to targets

OBJECTIVES

- Speed of movement
- Bilateral movements in response to bilateral stimuli
- Dynamic responses to emerging moving targets
- Movements times comparison (left and right limbs)

INSTRUCTION FOR PATIENT

Hit the target as quickly as you can. Then set yourself in rest pose











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

- Range
- Show path
- Repetitions

OBJECTIVES

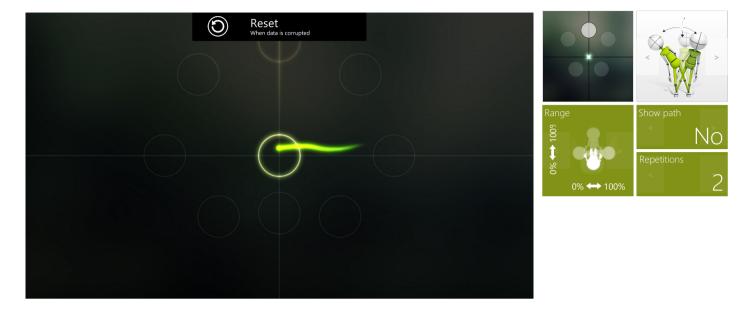
- Test the limits of balance and equilibrium
- Dynamics of planned movements

INSTRUCTION FOR PATIENT

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







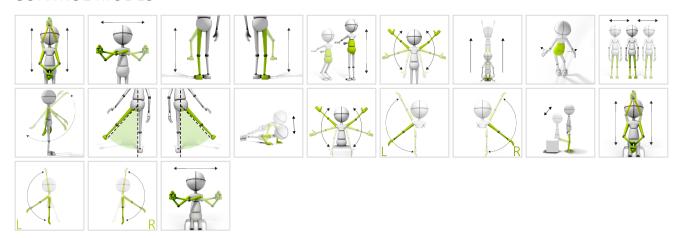




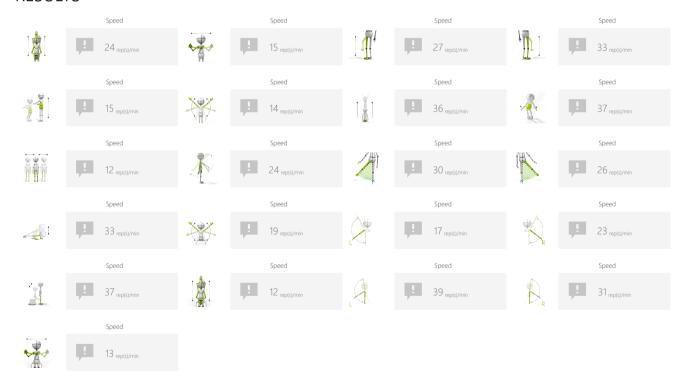
SPEED TEST

Measure number of repetitions of specific movement pattern an individual is able to perform within predefined time interval.

CONTROL MODES



RESULTS



ADJUSTMENTS

- Time to complete action
- Range

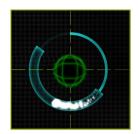
OBJECTIVES

- Speed of movement
- Repetitive movements

INSTRUCTION FOR PATIENT

Perform the specified movement pattern as many times as possible





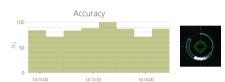
BALANCE GRID

Measure and train individual's skills to perform specific movement patterns while keeping predefined weight distribution.

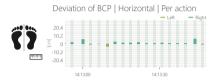
CONTROL MODES



RESULTS







ADJUSTMENTS

- Task duration
- Range
- Period

OBJECTIVES

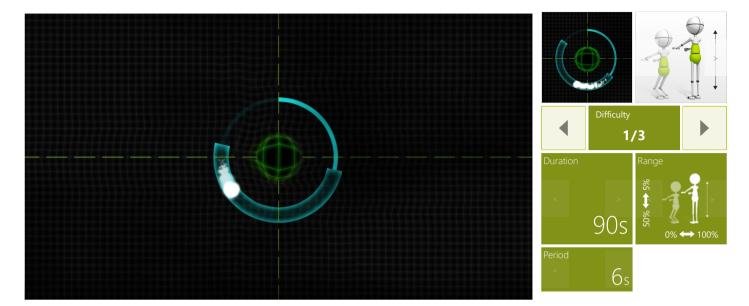
- Balance and equilibrium training
- 3D space movements reproduction
- Activity in a given rhythm

INSTRUCTION FOR PATIENT

Keep the white glowing point inside the blue area and make sure the emerging bump stays in the middle of the reticle











BALANCE BLOCK BUILDER

Measure and train individual's skills to perform specific movement patterns while keeping predefined weight distribution.

CONTROL MODES



RESULTS







ADJUSTMENTS

- Task duration
- Range
- Stack height

OBJECTIVES

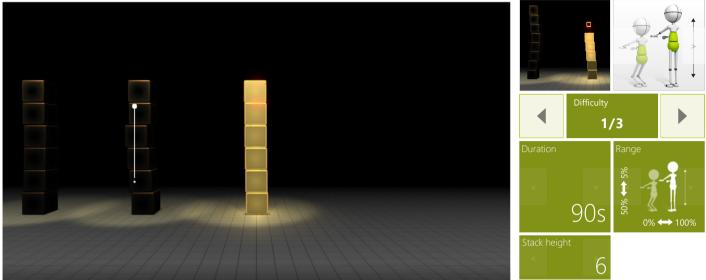
- Movement precision
- Muscle strengthening
- Balance and equilibrium training

INSTRUCTION FOR PATIENT

Build as many stacks as you can. Keep your body balanced.













SPECIALIZED BLOOD PRESSURE

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

CONTROL MODES



OBJECTIVES

• Monitor external parameters

INSTRUCTION FOR PATIENT

Measure yourself your blood pressure and type it in the result





SPECIALIZED

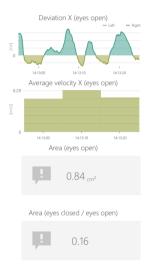
ROMBERG TEST

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

CONTROL MODES



RESULTS









ADJUSTMENTS

- Time to complete action
- Show feedback

OBJECTIVES

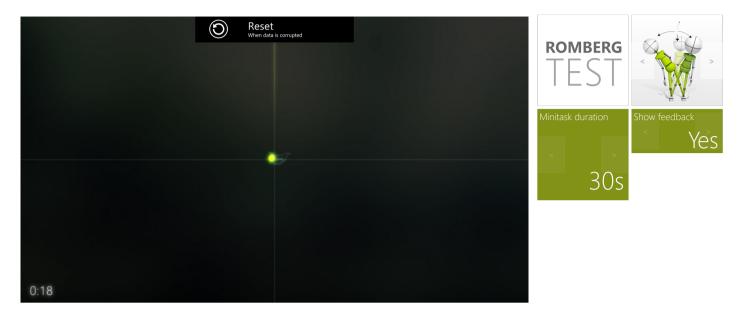
• Assesses static standing balance

INSTRUCTION FOR PATIENT

Romberg test. Try to stand as steadily as you can. First with eyes open, then with eyes closed

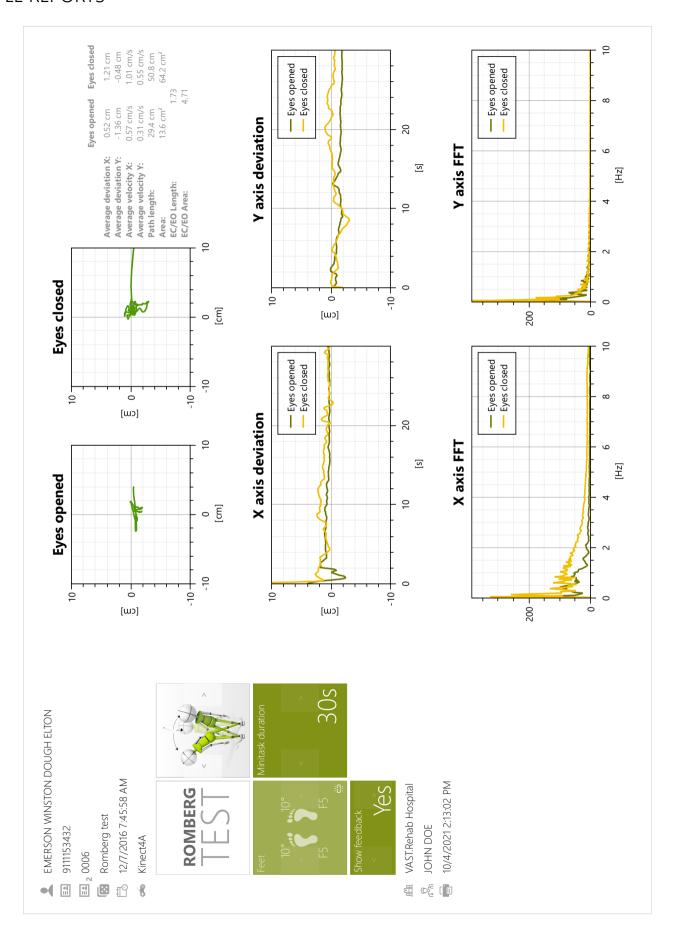








SAMPLE REPORTS



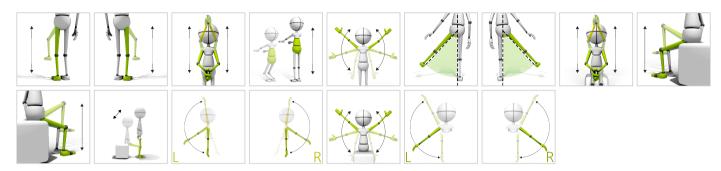




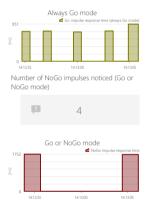
SPECIALIZED GONOGO TEST

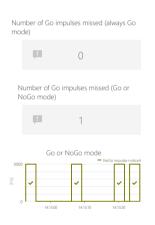
Specialized tasks and evaluations that collect data from multiple categories or do have a unique objectives.

CONTROL MODES



RESULTS









ADJUSTMENTS

- Range
- Required proper repetitions
- Hit if

OBJECTIVES

- Spontaneous movements
- Speed of movement
- Response to negative visual stimuli
- Reaction to the positive visual stimuli

INSTRUCTION FOR PATIENT

Hit the button when positive trigger appears





SPECIALIZED

FUKUDA TEST

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

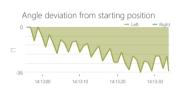
CONTROL MODES



RESULTS







OBJECTIVES

• Vestibular disorders diagnosis

INSTRUCTION FOR PATIENT

Take 50 steps in place with the eyes closed with arms outstretched at 90°





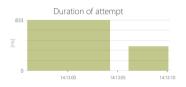
SPECIALIZED SINGLE LEG STANCE TEST

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

CONTROL MODES



RESULTS



ADJUSTMENTS

• Time to complete action

OBJECTIVES

- Test the limits of balance and equilibrium
- Knees lifting
- Postural stability

INSTRUCTION FOR PATIENT

Try to keep your body balanced while performing single leg stance

