

PhysioVR Software Module Descriptions

Overall Indications for Use: Vestibular / Balance, Neurology and Musculoskeletal Rehabilitation

Assessment

Module	Indications for Use			Description
	Vestibular / Balance	Neurology	Musculo-skeletal	
Cervical Joint Position Error Test	X	X	X	Assessment of cervical muscle proprioception.
Cervical Range of Motion	X	X	X	Assessment of joint amplitudes, in degrees, and pain threshold markings in the cervical spine.
Dynamic SVV	X	X		Assessment of verticality perception without influence of the visual field with a moving background.
HemiNeglect		X		Assessment of neglect through measuring head angles through VR headset.
hCTSIB	X	X		Assessment of an individual's ability to maintain balance under varying sensory conditions.
Rod and Frame Test	X	X		Assessment of verticality perception without influence of the visual field.
RotationVR-Assessment	X			Assessment of vestibular function. Requires use of a rotary chair.
RotationVR-Assessment RCIT	X			Assessment of vestibular function by impulse movements. Requires use of a rotary chair.
SVV	X	X		Assessment of verticality perception without influence of the visual field.
Upper Extremity ROM		X	X	Assessment of shoulder joint amplitudes in degrees.

Assessment and Training

Module	Indications for Use			Description
	Vestibular / Balance	Neurology	Musculo-skeletal	
BellsTestVR		X		Assessment and rehabilitation of unilateral spatial neglect in a VR adapted version of the Bell's Test.
DVA VR	X	X		Assessment and rehabilitation of image stabilization during high-frequency head movements.
Memorization		X		Assessment and rehabilitation of memory with a simulated grocery list activity.
Spatial Navigation		X		Assessment and rehabilitation of cognition through navigation of simulated grocery store environment.
StroopVR		X		Assessment and rehabilitation of neuro-cognitive deficits through a VR adapted Stroop Test.

SVV: Subjective Visual Vertical, hCTSIB: Head Clinical Test of Sensory Interaction on Balance, RCIT: Rotary Chair Impulse Test, DVA: Dynamic Visual Acuity



Rehabilitate balance disorders with the Virtualis solutions, which are a part of the Interacoustics balance portfolio.



Training

Module	Indications for Use			Description
	Vestibular / Balance	Neurology	Musculo-skeletal	
AirRaceVR	X	X	X	Rehabilitation of the cervical and thoracolumbar spine through simulated airplane obstacle course activity.
BowVR	X	X	X	Rehabilitation of muscular strengthening of the upper limbs, mobilization of the spine and overall balance through simulated archery activity.
Car Simulation	X			Habituation of motion sickness in a simulated car environment.
Catch the Ball	X	X	X	Rehabilitation of balance, upper and lower limb motor function through simulated sport practice activity.
CrowdVR	X			Habituation of symptoms through a simulated crowd environment.
Electrical Track		X	X	Rehabilitation of upper limbs by moving through a simulated electrical track environment.
EscalatorVR	X	X		Habituation of symptoms through a simulated escalator environment.
GeoboardVR		X		Rehabilitation of visuospatial deficits through a virtual geoboard environment.
Head-eye Coordination	X	X	X	Rehabilitation of the cervical spine, balance and dizziness symptoms by following a target along a trajectory.
Lift	X			Habituation of symptoms related to the fear of heights through simulated lift/elevator environment.
MatchingVR	X	X	X	Rehabilitation of balance, upper limb and cognitive function with a dual task in a simulated card matching activity.
Mirror		X		Rehabilitation of upper limbs in a virtual reality simulated mirror therapy activity.
Mirror & Ball		X		Rehabilitation of upper limbs in a virtual reality simulated mirror therapy activity with small therapy balls.
Mirror & Objects		X		Rehabilitation of upper limbs in a virtual reality simulated mirror therapy activity with use of various objects to manipulate.
Mirror Lower Extremity		X		Rehabilitation of lower limbs in a virtual reality simulated mirror therapy activity.
Motorway Simulation	X			Habituation of symptoms caused by motorist syndromes in a simulated driving environment. Used with or without the thrustmaster steering wheel.
Optical Flow	X	X		Habituation of symptoms and balance rehabilitation through visually conflicting environment including various tunnels and obstacles. Option to pair with the dynamic force plate.
Optokinetic	X	X		Rehabilitation of symptoms and balance in various optokinetic stimulations.
Pursuit Upper Extremity		X	X	Rehabilitation of upper limbs in a simulated space environment.
Reading (Sway Referenced)	X			Habituation of symptoms in a simulated car environment while reading a book.
RelaxationVR	X	X	X	Habituation of symptoms in simulated low stimulation environments.
ReflexVR	X	X	X	Rehabilitation of the spine, upper limb, lower limb and balance in a simulated balloon popping environment.
RotationVR-Rehabilitation	X			Rehabilitation of vestibular function. Requires use of a rotary chair.
Sea Simulation	X	X		Habituation of motion sickness in a simulated sea environment with various boat positions. Option to pair with the dynamic force plate
SequenceVR		X		Rehabilitation of cognition in a simulated piano environment.
Shoulder Rotation		X	X	Rehabilitation of the upper limbs through a simulated cannon shooting activity.
ShoulderVR		X	X	Active functional shoulder rehabilitation in environment with avatars.
Spine Rotation	X	X	X	Rehabilitation of balance, upper limbs and spine through a simulated painting activity.
SpineVR		X	X	Rehabilitation of the lower limbs and spine through a simulated underwater shrimp catching activity.
SquatVR		X	X	Rehabilitation of lower limbs and spine through a simulated star catching activity.
Supermarket	X	X	X	Rehabilitation of cognition, upper limb function and dizziness symptoms in a simulated grocery store environment.
Target Tracking	X	X	X	Rehabilitation of the cervical spine, balance and dizziness symptoms in a simulated bug catching activity.
Waves (Sway References)	X	X		Habituation of motion sickness in a simulated sea environment.
Whack-a-Mush		X	X	Rehabilitation of upper and lower limbs and trunk, attention, inhibition functions and hemineglect in a simulated whack-a-mush activity.



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Audiometry

Tympanometry

ABR

OAE

Hearing Aid Fitting

Balance

