

VR Therapy with VTplus

Virtual Reality in Healthcare | Digital Medical Technology Innovations

Impulse - Tech Talk

- Introduction VTplus
- Virtual Reality Therapy for psychological disorders
- VR Treatment examples
- Virtual Reality Therapy: Scientific Evidence
- Outlook – Future Applications



Speaker: Mathias Müller, CEO



virtual therapy +
research systems

Providing Virtual Reality for healthcare - digital medical technology innovations

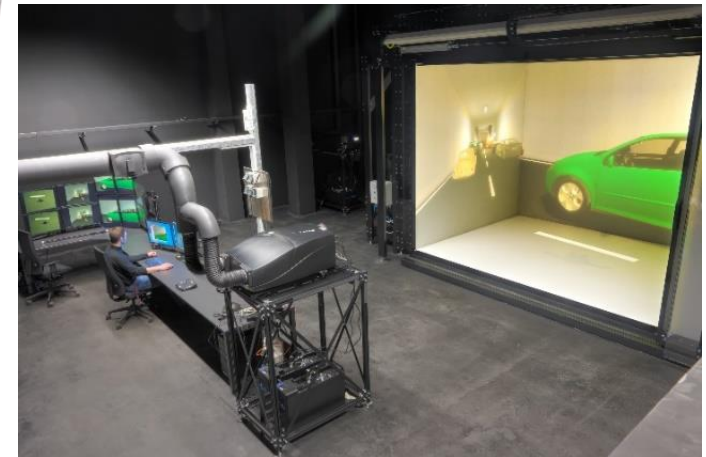
- Virtual reality therapy (VRT) turnkey systems for clinics and practices
- Virtual reality systems and solutions for empirical research

VR-Treatment of psychological disorders

- Anxiety Disorders (Flying, Heights, Spiders, Claustrophobia, Agoraphobia)
- Social Fears (Public Speaking, Job Interviews), Stress Management
- Nicotine Addiction



VT+ExpoCart/3 exposure systems with virtual reality (HMD)



VT+ Lab (PowerWall / Cave)

Anxiety Disorders

- An estimated 31.1% of U.S. adults experience any anxiety disorder at some time in their lives
- High impact on personal life
- Recommended Treatment: Exposure Exercises in-vivo / the real situation

Virtual Reality / VR-Therapy Szenario

- VR simulation provides the situations for treatment
- Can be individually controlled
- Can be as effective as the real situation
- Scientific Evidence
Presence -> Fear induction -> Efficacy -> Meta Analysis



In-vivo Exposure with a spider
© Alexandru Stefanescu



VT+Expo Virtual Reality Exposure

VR Exposure Example



VR Exposure Example



Virtual Reality Exposure | Public Speaking | assertive audience

VR Exposure Example



Virtual Reality Exposure | Public Speaking | disinterested audience

VR-Therapy Exposure Exercises



VR Tutorial



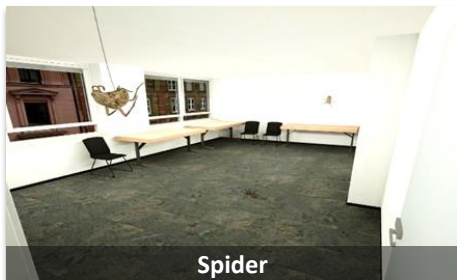
Heights



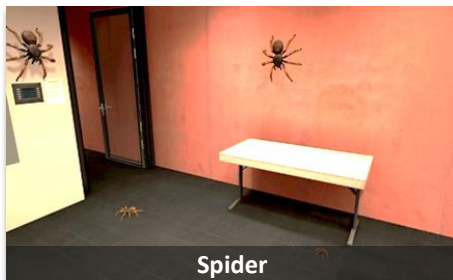
Heights Skyscraper



Spider



Spider



Spider



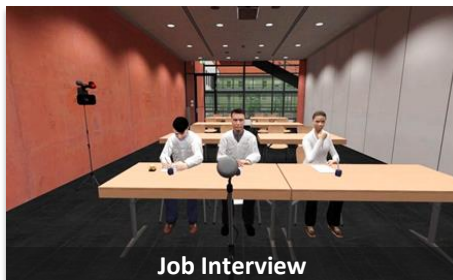
Claustrophobia



Claustrophobia



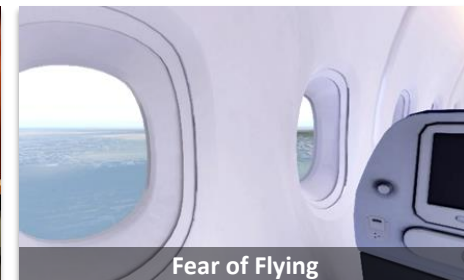
Public Speaking (Small)



Job Interview



Social Interactions



Fear of Flying



Private Party Nicotine



Public Space Nicotine



Birds



Individual virtual environments

VR Treatment available

VR Exposure therapy



Zentralinstitut für
Seelische Gesundheit
Landesstiftung
des öffentlichen Rechts



Universitätsklinikum Würzburg



VR Therapy research institutions

RUHR
UNIVERSITÄT
BOCHUM



HOCHSCHULAMBULANZ
FÜR PSYCHOTHERAPIE
am Institut für Psychologie
der Universität Würzburg



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Philipps



Universität
Marburg



UNIVERSITEIT
STELLENBOSCH
UNIVERSITY



Treatment of chronic pain, pain reduction with VR and Neurofeedback



GEFÖRDERT VOM



Bundesministerium
für Bildung
und Forschung

VirtualNoPain | FKZ: 13GW0213D



Stroke Rehabilitation with Virtual Reality and Neurofeedback



GEFÖRDERT VOM



Bundesministerium
für Bildung
und Forschung

REHALITY | FKZ: 13GW0343 | www.virtual-no-pain.de



Thanks for your attention

We are happy to answer your questions

VTplus GmbH

www.vtplus.eu

Informations on VR Anxiety Treatment and Empirical Research

www.cybersession.info