Winning or Losing your Mind:

Serious Games in Mental Health

A Reference for the Rest of Us!

By Dr Daniel Fung Chairman Medical Board IMH Includes full color pull-out guide to the human brain!

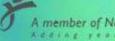
Guidance

Or Revenue Peters





- Financial Receives no honorarium and sponsorship from commercial and pharmaceutical companies in the last 3 year
- Nonfinancial President, Singapore Association for Mental Health, Board PLMGS, Receives no compensation as member of boards





Mental Healthcare

Traditional

- Specialist knowledge driven
- Labor-intensive
- Focused on person-centered therapeutic alliance
- A relational science that requires individualized care
- Technology only serve to hinder its practice and take away the holistic element of illness recovery centered around the person

Technology Integrated

- Computerized screening instruments such as structured diagnostic interviews
- Clinical rating scales available for purchase and download online
- Websites established by reputable agencies offering materials about mental health issues
- Electronic Interventions
- Reduced stigma and increased accessibility to services





Review of E-Interventions



Alive

ACTIVE FEEDBACK GAMES & TOOLS

Alive is the foundation platform that includes the Somatic Vision Games

Alive gives you an array of engaging software games designed to help you build mental performance and the ability to better manage daily stress while having fun.

Using the same proven training technologies used by winning attrietes and in clinics worldvide. Alive includes effective coaching foots and individual performance tracking.

Learn more about Alive >



Re-mission (2008)



Biofeedback games (2003 onwards)

cCBT For depression

Eliza (1966)

Selmi (1990)







Definitions

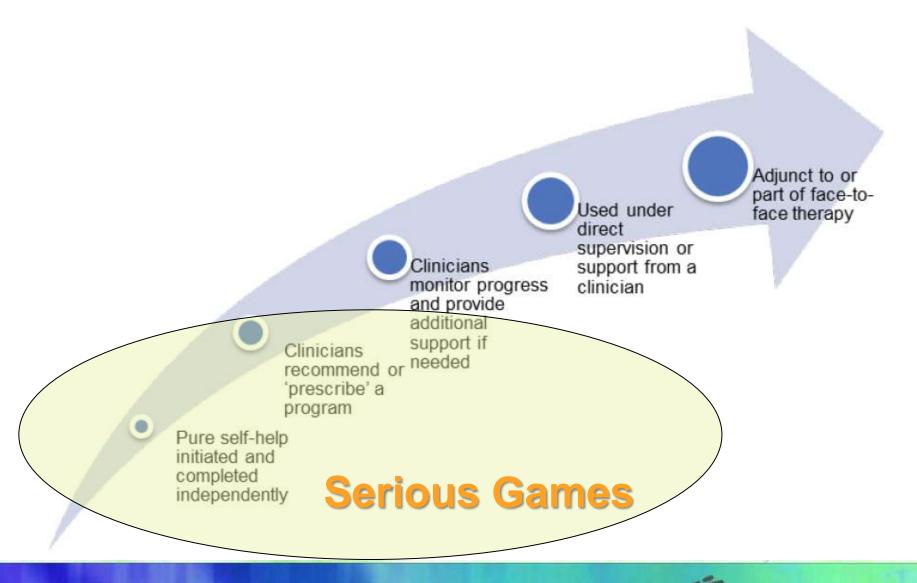
- eHealth: Use of Information and communication technology in health
- eTherapy: Psychological therapies using ICT means
- Serious Games: ICT Games with a purpose other than pure entertainment

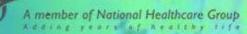
Serious games are defined as 'entertaining games with nonentertainment goals' (Prensky, 2001)





Therapist involvement







Intention of Serious Games

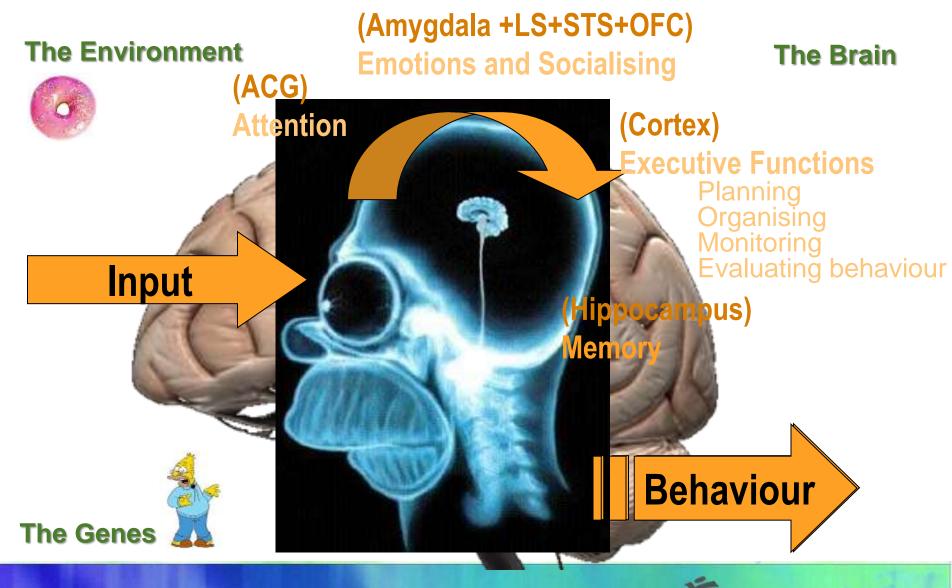
- Create a fun way to achieve certain goals or targets
- Specific aims such as
 - Education about illness
 - Learn specific skills e.g. relaxation
 - Treatment interactions in psychiatry

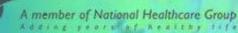






The Human Subject







Interface Devices:

Game Consoles & Mobile Devices















Interface Devices: Feedback devices & VR



Biofeedback devices

- Pulse rates
- Movements of muscles, eyes
- Electrical data from the body: EEG, ECG



Virtual reality: Immersive environments for simulating social environments

NAO







Games: Educational, Casual and Advergames

Educational Games

Casual Games

Advergames



https://exp.psy.uq.edu.au/socialanxiety/













Games: Serious Games





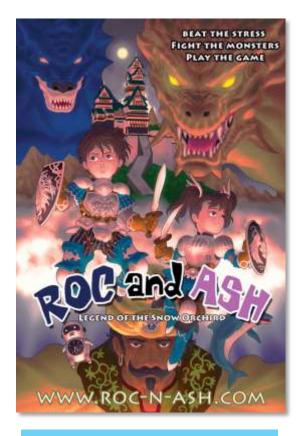
Loving Hearts, Beautiful Minds



SPARX



Serious Games by IMH



Anxiety and Attention





Selective Mutism



Attention and Concentration





One Example- Regnatales







Game Attributes (Derryberry, 2007)

- Backstory and storyline
- Game mechanics
- Rules
- Immersive physical environment
- Interactivity
- Challenge / Competition
- Risks and consequence









Game Mechanics

Identifying feelings

Coping with Feelings

Problem Solving and Perspective Taking

Anger Management Programme

- Lesson 1: Identification of feelings
- Lesson 2: Identification of angry feelings
- Lesson 3: Anger Control Techniques I
- Lesson 4: Anger Control Techniques II
- Lesson 5: Empathy and Perspective-taking
- Lesson 6: Social Problem-solving Steps
- Lesson 7: Fighting Fair
- Lesson 8: Building Prosocial Skills
- Lesson 9: Integrative Session





Game Mechanics

A member of National Healthcare Group

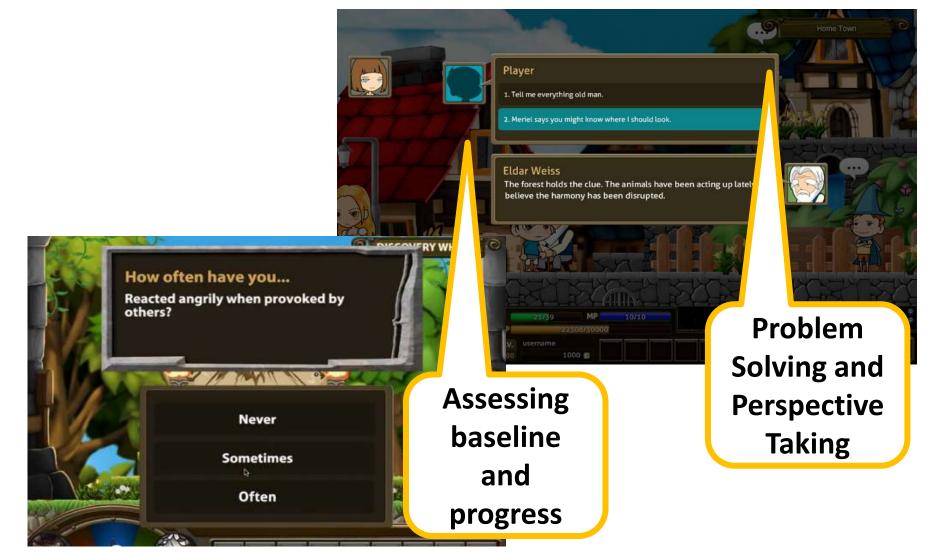


Surprised

happy



Game Mechanics

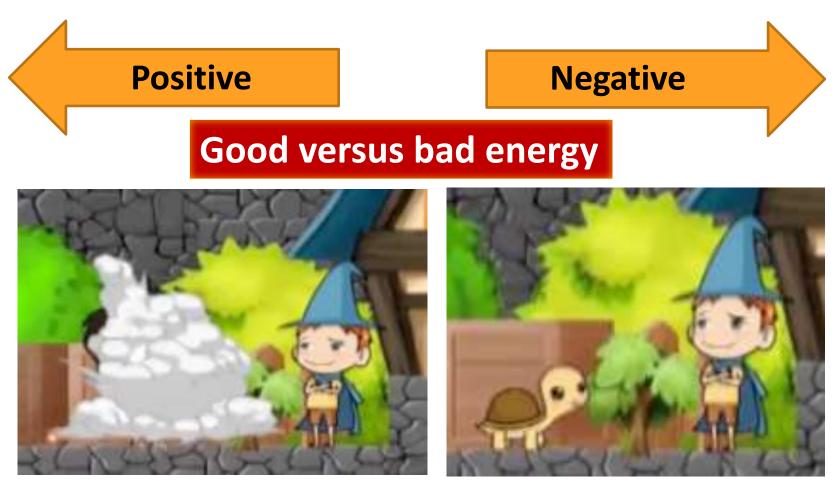








Behavior Modification Framework







Immersive Environments

Personalization Features





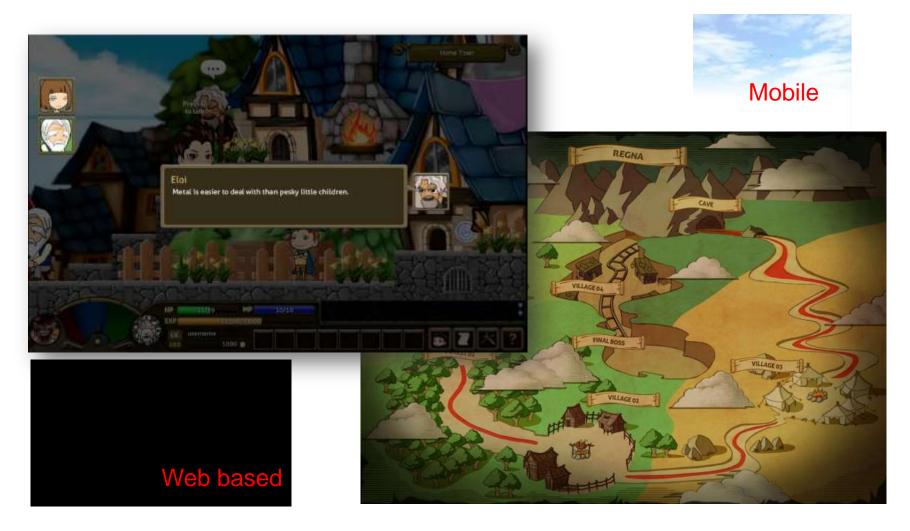


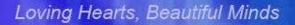






Interactivity & Challenge









Thank you for your Attention







