

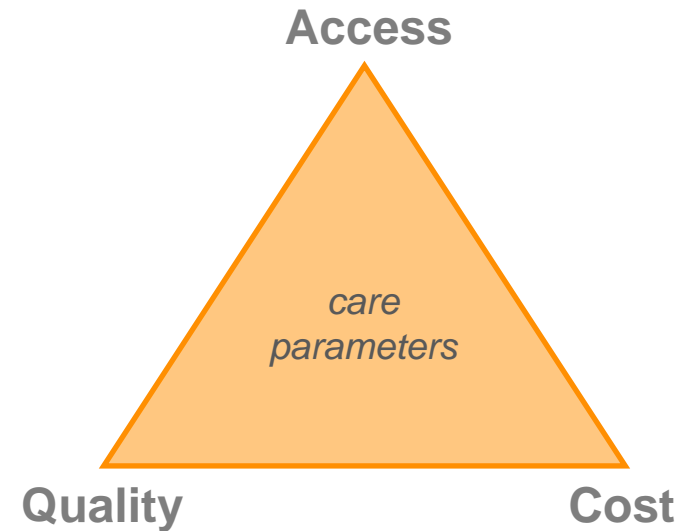
# Managing mental health and its consequences on medical care in general

Value Based Integrative Behavioral Health

Prof. Dr. Katharina Janus

# Depression is a global problem - the challenges of adequate care vary regionally

- 350 million people are suffering from depression worldwide<sup>1</sup>
- Lifetime prevalence: 10%-15%<sup>2</sup>
- Depressions are the third leading contributor to global disease burden<sup>3</sup>
- By 2030 depressions will become the most widespread disease<sup>2</sup>
- Suicide is one of the leading causes of death globally for all ages<sup>3</sup>
- Global treatment gap for depression 56.3%<sup>4</sup>



<sup>1</sup> WHO (2010)

<sup>2</sup> Lépine & Briley (2011)

<sup>3</sup> Tomlinson & Lund (2012)

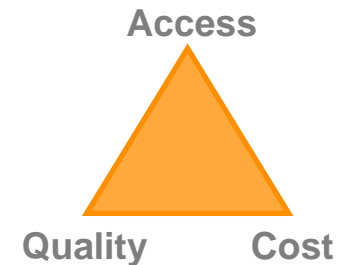
<sup>4</sup> Kohn et al. (2004)

# Treatment options of depression vary in access, quality and costs

	Drug	Psychotherapy	Online self-help
Access	✓✓✓	✓ - ✓✓✓	✓✓✓
Quality (Cohens' d) <sup>1</sup>	d = 0,32 <sup>2</sup>	d = 0,80 <sup>3</sup>	d = 0,28 <sup>4</sup>
Cost	annual therapy cost sertraline (generic): 84 USD <sup>5</sup>	8 visits at 95 USD each on average <sup>6</sup>	free/ funded
	<p style="text-align: center;"><b>Access</b></p>	<p style="text-align: center;">Access</p>	<p style="text-align: center;"><b>Access</b></p>

Objective: Combine the strengths of psychotherapy and online self-help

→ **Online-Psychotherapy**



<sup>1</sup> Cohen's d is a statistical effect size. Interpretation according to Cohen (1988): 0.2=small effect, 0.5=medium effect, 0.8=large effect

<sup>2</sup> Turner et al. (2008)

<sup>3</sup> Kehle et al. (2001)

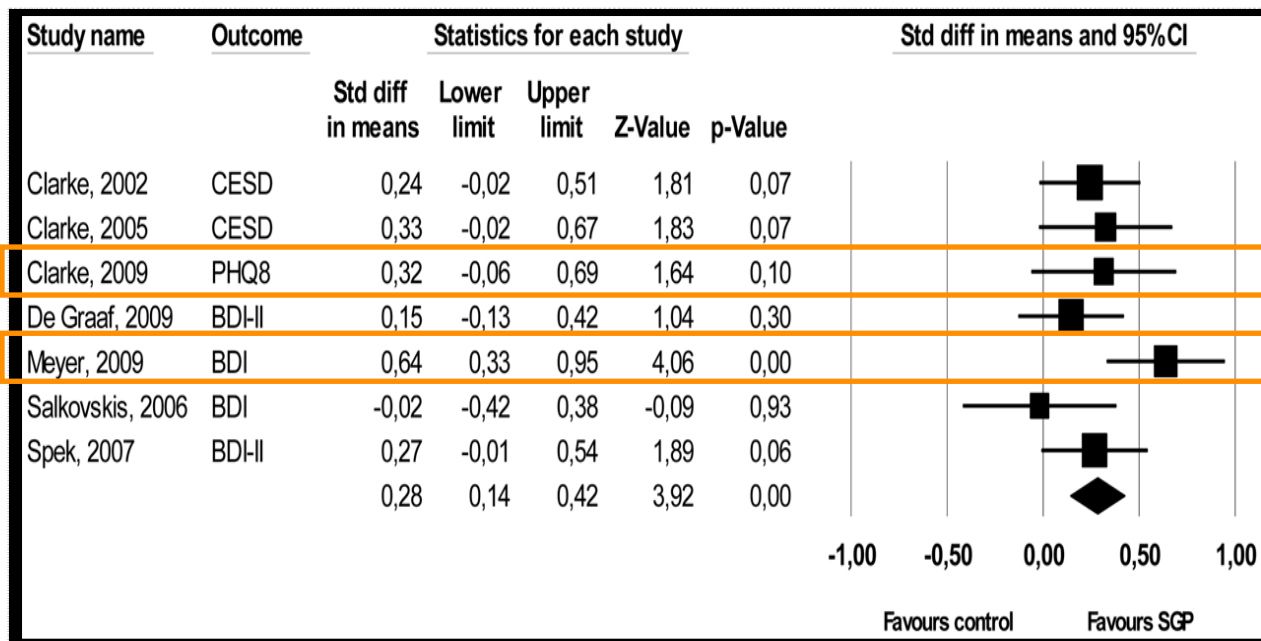
<sup>4</sup> Cuijpers et al. (2011), overall mean effect size

<sup>5</sup> DDD for treatment of depression: sertraline 50 mg (Zoloft), 7 USD for 30 tablets (goodrx.com)

<sup>6</sup> Olfson & Marcus (2010)

# Meta-analysis of online self-help and online psychotherapy<sup>1</sup>

- All programs without any contact between the participants and a therapist or coach
- Content based on cognitive behavioral techniques
- Effect sizes (Cohen's d)<sup>2</sup> range
  - from d = -0,02 (no effect)
  - to d = 0,64 (medium to large effect size)



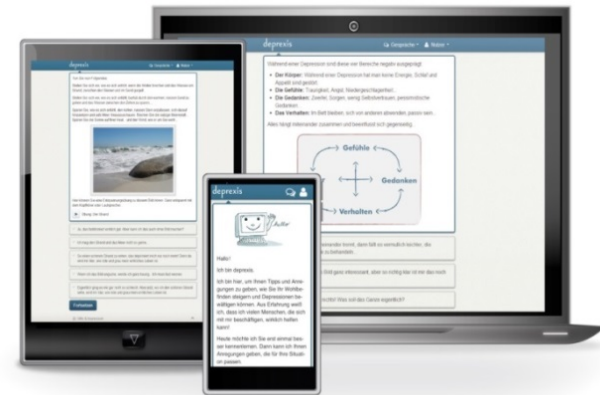
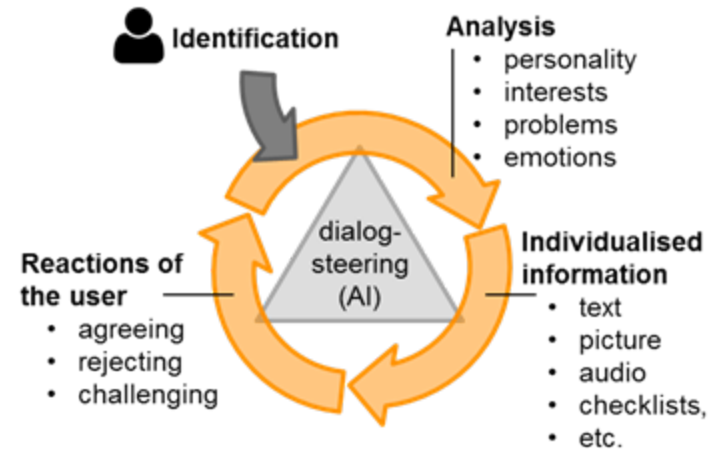
<sup>1</sup> Cuijpers et al. (2011)

<sup>2</sup> Cohen's d is a statistical effect size. Interpretation according to Cohen (1988): 0.2=small effect, 0.5=medium effect, 0.8=large effect



# Example 2: Effects of the online psychotherapy program deprexis<sup>®</sup> (Meyer 2009)

- Medium to large effect size<sup>1</sup>:  $d = 0,64^2$
- proven effectiveness in 3 independent RCTs<sup>2-4</sup>
- increased effect size of  $d = 1,14$  with secured diagnosis and therapeutic guidance/support<sup>3</sup>
- Incorporates classic CBT plus contemporary evidence-based research trends/“3rd wave”
- Individualization and personal relevance:
  - Provision of new information and exercises based on continuous identification of the patient’s needs and emotional situation, based on artificial intelligence (AI)
  - Increased long-term learning-effect due to active engagement with the content and perceived personal relevance
- “All screen” availability
- responsive website technology
- 24/7 usage on any connected device (smartphone, tablet, PC)



<sup>1</sup> Cohen's d is a statistical effect size. Interpretation according to Cohen (1988): 0.2=small effect, 0.5=medium effect, 0.8=large effect

<sup>2</sup>Meyer et al.(2009)

<sup>3</sup>Berger et al.(2011)

<sup>4</sup>Moritz et al. (2012)

# Quotes from online psychotherapy patients

*“Dear team, I am very excited about the program. After having completed almost 3 psychotherapies I really benefit from the suggestions of your program, exercises and the general approach to the disease. I am very curious to continue. Regards”*

B.G. via email

*“The program always sets the right tone.”*

Stern magazine Sept. 2013

*“Good afternoon!*

*You cannot imagine how much this has helped me – many, many thanks for this great program! [...] This may sound quite exaggerated, but I don't know how much further I would have dropped without it. Like I mentioned, my therapist was on vacation. That's why this really great and human program was my rescue!”*

C.B. via email

*“Dear Sir or Madam,*

*Thanks to the program I am able to continue to live my normal life and to work - and I am so happy about this.*

*I also talked with my doctor who didn't know the program and he was very excited.*

*Thank you very much for this help!!!! (without you I would not be working and taking antidepressants)”*

K.M. via email

*“Happy cows come from California!”*





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