

Bilaga 5 Granskade hälsoekonomiska studier

Internetförmedlad psykologisk behandling Jämförelse med andra behandlingar vid psykiatriska syndrom Internet-based psychological treatment compared to other interventions for common mental disorders Rapport nr 337 (2021)

Appendix 5 Details of critically appraised health economic studies

Table of details of critically appraised health economic studies

Author	Kraepelien et al
Year	2018
Reference	[1]
Country	Sweden
Study design	RCT-based CEA. Follow-up at 3 months and 12 months after baseline.
Population	Patients aged 18–67 years with present depressive symptoms defined as
	scoring ≥10 on the Patient Health Questionnaire (PHQ-9).
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Setting	Primary care.
Perspective	Health care and societal perspectives.
Intervention	ICBT for 12 weeks (n=317)
vs	vs
control	TAU as administered by GP for 12 weeks (n=312)
Incremental cost	3-month follow-up, health care perspective: Mean total costs per patient
	were 811 EUR (SE 12) for ICBT and 513 EUR (SE 21) for TAU.
	12-month follow-up, health care perspective: Mean total costs per patient
	were 2 254 EUR (1 753 EUR health care provider costs + 501 EUR
	intervention cost; SE not reported) for ICBT and 1 911 EUR (SE 128 EUR) for
	TAU.
	12-month follow-up, societal perspective: Mean total costs per patient
	were 11 685 EUR (SE 587 EUR) for ICBT and 10 623 EUR (SE 810 EUR) for
	TAU.
	All above costs represent imputed values. Incremental costs were not
	reported but could be calculated from the above reported total costs.
	Costs were assessed in Swedish Krona (SEK) and converted to Euros using
	purchasing power parities and 2012 as reference year (1 SEK = Euro 0.0872962721).
	0.0872302721).
Incremental	12-month follow-up: Mean QALYs were 0,6909 (SE 0,1037) for ICBT versus
effect	0,6571 (SE 0,1085) for TAU.
	0,007.2 (02.0), 101.17.101.
	These results represent imputed values. CI or p-value for difference in
	QALYs not reported.
ICER	ICER for 12-month health care perspective: 10 166 EUR per QALY gained.
	ICER for 12-month societal perspective: 31 471 EUR per QALY gained.
	We choose not to report the ICER for the 3-month health care perspective
	as the authors report that the calculation was based on QALY-gain at 12
	months.

	Results of the PSA indicated that ICBT has a probability of 90% of being
	cost-effective at the chosen WTP threshold of 21 536 EUR in the healthcare
	perspective and a probability of approximately 40% of being cost-effective
	at the same WTP threshold in the societal perspective.
Study quality with	Low to moderate quality with respect to economic aspects
respect to economic	
aspects*	Main results of the RCT are reported in Hallgren 2015 and 2016 [2, 3] The
	trial also included one group randomised to physical activity. This risk of
	bias of the trial was assessed as high.
Further information	
Comments	25% of EQ-5D questionnaires and 23% of TiC-P questionnaires (which were
	used to collect data on costs) were missing at post-treatment follow-up.
	17% of EQ-5D questionnaires and 40% of some items in the costing
	questionnaires were missing at 1-year follow-up. Missing data were
	imputed with multiple imputation by chained equations, using probability
	mean matching. Authors provided supplementary data on complete cases
	for EQ 5D and t-test for difference in QALYs between ICBT and TAU at 12
	months (t = 1.999; p = 0.046).
Author	Holst et al
Year	2018
Reference	[4]
Country	Sweden
Study design	CEA based on pragmatic RCT. Follow-up at 3 months and 12 months after
	baseline.
Population	
	Patients aged >=18 years with a probable diagnosis of mild to moderate
Setting	depression
Perspective	Primary care.
	Health care and societal perspectives.
Intervention	ICBT for 12 weeks (n=52)
VS	VS
control	TAU as typically provided by the primary care center for 12 weeks (n=38)
Incremental cost	12-month follow-up, health care perspective: Mean (SD) total costs per
	patient were 4 044 SEK (SD 1 853 SEK) for ICBT and 4 434 SEK (2 651 SEK)
	for TAU.
	12-month follow-up, societal perspective: Mean total costs per patient
	were 47 679 SEK (77 641 SEK) for ICBT and 50 343 SEK (87 176 SEK) for
	TAU.
	The difference in costs was not statistically significant between groups
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	, ,
	receiving ICBT and TAU (p=0.73 for difference in costs in health care
	, ,

Incremental effect	12-month follow-up: Mean (95% CI) QALYs were 0.74 (0.75-0.84) for ICBT versus 0.79 (0.70-0.78) for TAU. The difference in QALYs was not statistically significant between groups
	receiving ICBT and TAU.
ICER	We chose not to report the ICERs for the deterministic analysis as these were based on non-significant differences in costs and QALYs.
	The PSA indicated that ICERs were scattered throughout all four quadrants of the cost-effectiveness plane, indicating that no conclusion could be drawn regarding cost-effectiveness.
Study quality with respect to economic	Moderate quality with respect to economic aspects
aspects*	Main results of the RCT are reported in Kivi 2014 [5]. This risk of bias of the trial was assessed as high.
Further information Comments	The analysis was conducted for patients where both cost and outcome data were sufficient (40 ICBT vs 33 TaU patients).

CEA = Cost-effectiveness analysis; **EUR** = Euro; **GP** = General practitioner; **ICBT** = Internet-based cognitive behavioural therapy; **ICER** = Incremental cost-effectiveness ratio; **PSA** = Probabilistic sensitivity analysis; **SE** = Standard error; **TAU** = Treatment as usual; **TIC-P** = Trimbos and iMTA questionnaire on Costs associated with Psychiatric illness.

^{*}Assessed using SBU's checklist for trial-based health economic studies [6].

References

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- 4. Holst A, Bjorkelund C, Metsini A, Madsen JH, Hange D, Petersson EL, et al. Cost-effectiveness analysis of internet-mediated cognitive behavioural therapy for depression in the primary care setting: results based on a controlled trial. BMJ Open. 2018;8(6):e019716. Available from: https://doi.org/10.1136/bmjopen-2017-019716.
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- 6. SBU. Appendix 7 Checklist for assessing the quality of trialbased health economic studies. Stockholm: Statens beredning för medicinsk och social utvärdering (SBU); 2018. Available from: https://www.sbu.se/globalassets/ebm/metodbok/checklist_trialbased-economic-study.pdf.