

Supplemental 1: Quality assessment

Quality criteria for studies that described costs of interventions. Adapted from Stuhldreher et al (2013).

Criterion	Description
Scope	
Study objective	The objective(s) of the study was (were) defined.
Inclusion and exclusion criteria	Clear and objective inclusion and exclusion criteria were defined.
Disease and diagnostic criteria	The disease and its objective diagnostic criteria (ICD, DSM or valid disease-specific instruments) that were used to identify eligible patients were reported.
Non-depressed comparison group	The study included a non-depressed control group in order to calculate excess costs.
Calculation of costs	
Currency	The currency in which the costs were calculated was reported in the text or was uncontroversial.
Reference year	All costs were valued at the price level of a stated base year (and inflated if necessary).
Perspective	The costs were analysed from the perspective of a patient, a payer or the society, the characteristics of the respective perspective were incorporated and the perspective was reported.
Costs incorporated from at least two major categories	The study estimated costs from the utilization of different kinds of health care services, but at least of two of the categories inpatient, outpatient, medication or indirect services, in order to consider at best all costs that accrue from the disease under study.
Data source	The source of information on healthcare utilization or costs was reported.
Valuation of costs	If data on healthcare utilization was collected, the source of unit costs was reported, in case cost data were used these reflected actual charges.
Study design and analysis	
Missing data, imputation method	The proportion of missing data was reported and the way it was dealt with (e.g. imputation method) was described.
Sensitivity analyses	Relevant parameters were varied in univariate and/or probabilistic sensitivity analyses in order to test the robustness of the results.
Presentation of results	
Sample size (subgroup)	The sample size of each group was reported.
Demographics	The characteristics of the sample were described; at least age and gender were reported.
Arithmetic mean costs	The cost estimates were presented as arithmetic means.
Standard deviations	Standard deviations of cost estimates were reported as a measure of variability or could be obtained by reported standard errors or confidence intervals.
Discussion	
Results discussed with respect to other studies	The results were discussed in relation to other studies on the same topic, if any.
Limitations discussed	The limitations regarding in particular the calculation of costs were discussed in detail.

Reference	Arnow et al 2009 ^a	Bosmans et al 2010	Brilleman et al 2013	Carstensen et al 2012	Carta et al 2003	Chiu et 2017	Choi et al 2014 ^b	Druss et al 2000	Gameroff et al 2006	Garis et al 2002	Greenberg et al 2015	Hamre et al 2010	Hsieh et al 2017	McTernan et al 2013	Shvartzman et al 2005	Simon et al 1995	Stamm et al 2010	Thomas et al 2005	Trivedi et al 2004	Woo et al 2011	Alexandre et al 2016	Bock et al 2014	Bock et al 2016	Callahan et al 1994	Callahan et al 1997	Fischer et al 2002	Katon et al 2003	Ludvigsson et al 2018	Luppa et al 2013	Prina et al 2014	Vasiliadis et al 2013	
Subgroup^c	1																									2						
Study objective	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Inclusion and exclusion criteria	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Disease and diagnostic criteria	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Non-depressed comparison group	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Currency	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Reference year	X	✓	✓	✓	✓	X	✓	✓	✓	X	✓	✓	✓	✓	✓	X	X	✓	✓	✓	X	✓	✓	✓	X	X	✓	✓	✓	X	✓	
Perspective	X	X	X	X	X	X	X	✓	✓	X	✓	✓	X	X	X	X	✓	X	X	X	✓	✓	✓	X	X	X	X	✓	X	✓		
Costs incorporated from at least 2 major categories	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	X	✓	✓	✓	X	X	✓	✓	✓	X	✓		
Data source	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Valuation of costs	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Missing data, imputation method	X	X	✓	X	X	✓	✓	X	X	X	X	✓	✓	✓	X	✓	X	X	X	X	✓	✓	✓	X	X	X	X	✓	X	✓		
Sensitivity analyses	X	X	X	X	✓	X	X	X	X	X	✓	✓	✓	X	X	X	X	X	X	X	✓	✓	✓	X	✓	X	X	✓	X	X		
Sample size (subgroup)	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Demographics	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Arithmetic mean costs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Standard deviations	✓	✓	✓	✓	X	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	X	✓	✓	✓	X	✓	✓	✓	✓	X	X	✓	✓	✓	✓	✓	✓
Results discussed with respect to other studies	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	X	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Limitations discussed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Rate of criteria each study fulfilled (%)	78 %	83%	83%	72%	67%	89%	89%	78%	83%	78%	89%	100 %	89%	72%	78%	72%	89%	78%	61%	78%	94%	100 %	100 %	72%	72%	72%	78%	94%	94%	72%	94%	

Reference	Guevara et al 2003	Wright et al 2016	Adam et al 2017	Dagher et al 2012	Edoka et al 2011	Egede et al 2002	Engel et al 1996	Finkelstein et al 2003	Frasure-Smith et al 2000	Gilmer et al 2005	Morgan et al 2008	Petrou et al 2003	Rayner et al 2016	Rosenzweig et al 2002	Rutledge et al 2009	Sullivan et al 2002	Williams et al 2005	Rate of studies that fulfilled the respective criterion (%)
Subgroup ^c	3									4								
Study objective	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%	
Inclusion and exclusion criteria	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	98%	
Disease and diagnostic criteria	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	X	✓	X	✓	91%
Non-depressed comparison group	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	98%
Currency	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	98%
Reference year	✓	✓	X	✓	✓	✓	X	✓	X	✓	✓	✓	✓	X	✓	✓	X	69%
Perspective	✓	✓	X	X	✓	✓	X	X	X	✓	X	✓	X	X	X	✓	X	35%
Costs incorporated from at least 2 major categories	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	88%
Data source	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%
Valuation of costs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	96%
Missing data, imputation method	X	X	X	X	✓	X	X	X	X	✓	✓	X	X	X	X	X	X	33%
Sensitivity analyses	✓	✓	X	X	X	X	X	X	X	X	✓	X	X	✓	X	X	✓	27%
Sample size (subgroup)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	96%
Demographics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	96%
Arithmetic mean costs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	100%
Standard deviations	X	✓	✓	✓	✓	✓	X	✓	X	✓	✓	X	✓	✓	✓	✓	✓	79%
Results discussed with respect to other studies	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	90%
Limitations discussed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	X	92%
Rate of criteria each study fulfilled (%)	89%	94%	78 %	83%	94%	83%	78%	78%	78%	89%	89%	89%	83%	72%	89%	83%	50 %	82%

^a Reports also data for depression as comorbidity.

^b Reports also data for depressed and non-depressed in old age.

^c 1= Depressed and non-depressed in adults; 2= Depressed and non-depressed in old age; 3= Depressed and non-depressed in adolescents; 4= Depression as comorbidity

Supplemental 2: Mean annual costs in 2017 US\$-PPP (SD)

Reference	Direct costs										Indirect costs			
	Total direct costs		Inpatient treatment		Emergency treatment		Outpatient treatment		Medication		Others		Total indirect costs	
	D	ND	D	ND	D	ND	D	ND	D	ND	D	ND	D	ND
Depressed and non-depressed in adults														
Arnow et al 2009	7,663 (10,068)	5,024 (10,081)	2,642 (6,349)	1,573 (6,395)	331 (438)	165 (451)	2,928 (-)	1,943 (-)	1,032 (1,705)	713 (1,730)				
Bosmans et al 2010	1,455 (1,169)	335 (545)					946 (-)	192 (-)	239 (365)	12 (121)	300 (-)	132 (-)		
Brilleman et al 2013	455 (725)	227 (524)					213 (245)	111 (161)	198 (569)	87 (423)	43 (118)	30 (101)		
Carstensen et al 2012	2,243 (-)	668 (-)	1,558 (-)	435 (-)			347 (-)	110 (-)	338 (-)	123 (-)				
Carta et al 2003	4,885 (2,674)	1,012 (536)												
Chiu et al 2017	2,969 (7,985)	2,845 (10,715)	1,067 (4,641)	991 (5,598)	124 (233)	104 (532)	894 (1,292)	831 (3,470)			884 (3,675)	920 (4,002)		
Choi et al 2014	9,256 (26,153)	4,631 (15,767)	2,685 (17,962)	1,283 (9,674)	333 (1,641)	188 (1,083)	3,173 (-)	2,108 (-)	2,732 (6,701)	901 (2,944)	333 (-)	150 (-)		
Druss et al 2000	5,496 (-)	1,527 (-)											2,024 (-)	552 (-)
Gameroff et al 2006	27,208 (156,885)	9,034 (65,983)												
Garis et al 2002	8,855 (13,769)	984 (1,905)	5,743 (-)	370 (-)			442 (-)	233 (-)	682 (-)	103 (-)	1,745 (-)	164 (-)		
Greenberg et al 2015	11,081 (21,833)	4,688 (12,380)	2,461 (14,877)	1,167 (8,051)	443 (1,741)	190 (936)	4,654 (10,473)	2,190 (6,404)	2,964 (5,322)	989 (3,510)	559 (3,946)	153 (1,613)	4,360 (7,895)	1,444 (3,077)
Hamre et al 2010	7,902 (15,203)	3,972 (7,663)	5,357 (14,844)	2,203 (6,840)			1,888 (-)	1,283 (-)	657 (-)	485 (-)			3,157 (7,491)	1,921 (6,040)
Hsieh et al 2017	950 (2,239)	483 (1,938)												
McTernan et al 2013													8,450 (-)	6,650 (-)
Shvartzman et al 2005	1,256 (4,707)	656 (2,510)	1,486 (4,026)	176 (1,517)			490 (2,090)	303 (1,461)	232 (815)	175 (677)				
Simon et al 1995	7,417 (12,501)	4,142 (10,172)	2,011 (-)	1,296 (-)	105 (447)	47 (264)	2,886 (-)	1,485 (-)	997 (1,115)	409 (690)	540 (935)	377 (660)		
Stamm et al 2010	6,500 (12,313)	1,748 (1,749)	3,136 (8,207)	1,033 (6,022)					694 (1,323)	345 (848)				
Thomas et al 2005	10,368 (-)	4,443 (-)							2,195 (-)	672 (-)				
Trivedi et al 2004	10,410 (-)	2,429 (-)											371 (-)	218 (-)
Woo et al 2011													21,873 (16,757)	9,499 (7,400)
Depressed and non-depressed in old age														
Alexandre et al 2016	18,913 (21,860)	8,796 (13,048)												
Bock et al 2014	23,135 (29,514)	8,910 (17,812)	6,036 (13,262)	2,767 (11,165)			2,116 (-)	1,525 (-)	2,721 (2,900)	1,551 (1,994)	12,262 (-)	3,068 (-)		
Bock et al 2016	13,573 (21,165)	7,285 (14,132)	4,914 (13,630)	2,188 (8,090)			2,016 (1,652)	1,484 (1,308)	1,991 (1,747)	1,329 (1,540)	4,653 (12,379)	2,283 (9,666)		
Callahan et al 1994							2,818 (3,028)	1,750 (2,187)						
Callahan et al 1997											2,448 (-)	1,990 (-)		
Choi et al 2014	20,271 (17,410)	10,396 (16,944)	9,167 (12,064)	3,992 (12,774)	324 (1,553)	168 (659)	4,653 (-)	3,053 (-)	4,538 (7,177)	2,377 (4,126)	1,589 (-)	806 (-)		
Fischer et al 2002							10,367 (-)	7,154 (-)						
Katon et al 2003	9,162 (14,906)	5,751 (15,230)	2,181 (8,681)	1,366 (10,815)	171 (315)	103 (640)	4,159 (-)	2,766 (-)	1,413 (-)	792 (-)	1,236 (-)	724 (-)		
Ludvigsson et al 2018	11,304 (12,380)	8,588 (8,198)	4,567 (5,481)	3,677 (5,274)			7,405 (-)	5,139 (-)	1,354 (832)	1,205 (1,497)	10,619 (-)	7,617 (-)		

Reference	Direct costs												Indirect costs			
	Total direct costs		Inpatient treatment		Emergency treatment		Outpatient treatment		Medication		Others		Total indirect costs			
	D	ND	D	ND	D	ND	D	ND	D	ND	D	ND	D	ND	D	ND
Luppa et al 2008	7,962 (10,134)	5,542 (8,894)	3,171 (8,681)	1,961 (5,609)			585 (589)	871 (3,168)	2,142 (2,065)	1,545 (3,111)	2,065 (-)	1,165 (-)				
Prina et al 2014			8,043 (15,255)	3,886 (9,776)												
Vasiliadis et al 2013	3,008 (5,293)	2,650 (5,049)	563 (2,002)	446 (2,184)			981 (2,063)	819 (1,855)	1,115 (1,441)	1,074 (1,636)	348 (775)	312 (582)				
Depressed and non-depressed in adolescents																
Guevara et al 2003	3,993 (-)	1,110 (-)	1,274 (-)	245 (-)												
Wright et al 2016	5,348 (11,037)	2,480 (8,019)	1,135 (6,709)	351 (4,735)	667 (2,991)	153 (843)	4,213 (6,122)	2,318 (4,768)	548 (1,068)	295 (1,301)	205 (334)	114 (501)				
Depression as comorbidity																
Adam et al 2017	31,457 (57,500)	19,812 (37,398)	23,287 (54,984)	11,414 (34,199)	823 (2,093)	1,069 (2,706)	7,347 (7,104)	7,328 (9,979)								
Arnow et al 2009	9,748 (10,102)	6,131 (10,196)	2,717 (6,352)	1,694 (6,391)	353 (432)	211 (454)	3,271 (-)	2,392 (-)	1,856 (1,729)	1,078 (1,737)						
Dagher et al 2012	6,320 (20,845)	2,206 (8,253)	3,667 (20,414)	481 (6,026)	509 (1,247)	80 (402)	2,145 (-)	1,644 (-)								
Edoka et al 2011	737 (973)	499 (1,191)	266 (-)	262 (-)			472 (-)	236 (-)								
Egede et al 2002	17,902 (-)	13,254 (-)	13,957 (-)	10,587 (-)	485 (-)	530 (-)	1,274 (-)	922 (-)	1,927 (-)	922 (-)	260 (-)	292 (-)				
Engel et al 1996													4,948 (11,334)	3,520 (6,692)		
Finkelstein et al 2003	35,107 (-)	14,339 (-)														
Frasure-Smith et al 2000	4,764 (7,215)	3,769 (6,880)	786 (-)	682 (-)	191 (289)	128 (223)	661 (468)	541 (381)								
Gilmer et al 2005	14,521 (18,103)	9,816 (10,421)														
Morgan et al 2008	6,875 (11,988)	5,031 (6,760)														
Petrou et al 2002	1,888 (-)	1,416 (-)	715 (-)	648 (-)			1,173 (-)	768 (-)								
Rayner et al 2016	4,305 (10,444)	2,636 (5,309)	1,566 (9,589)	595 (4,095)	241 (657)	147 (508)	2,499 (-)	1,902 (-)								
Rosenzweig et al 2002	11,862 (18,730)	7,110 (11,255)							3,618 (2,329)	2,625 (2,491)						
Rutledge et al 2009	11,436 (-)	8,861 (-)							3,401 (1,605)	2,808 (1,611)						
Sullivan et al 2002	18,885 (13,586)	15,667 (13,779)	10,537 (10,670)	9,791 (11,785)			8,780 (4,401)	5,881 (3,953)								
Williams et al 2005	21,370 (22,784)	25,329 (38,438)	2,855 (15,163)	3,579 (28,161)	690 (-)	306 (-)	2,234 (-)	2,067 (-)	8,876 (9,293)	11,835 (9,557)	6,576 (-)	5,495 (-)				

Supplemental 3: Forest plots of direct cost categories

Figure S3(1): Meta-analysis: Forest plot of outpatient excess costs

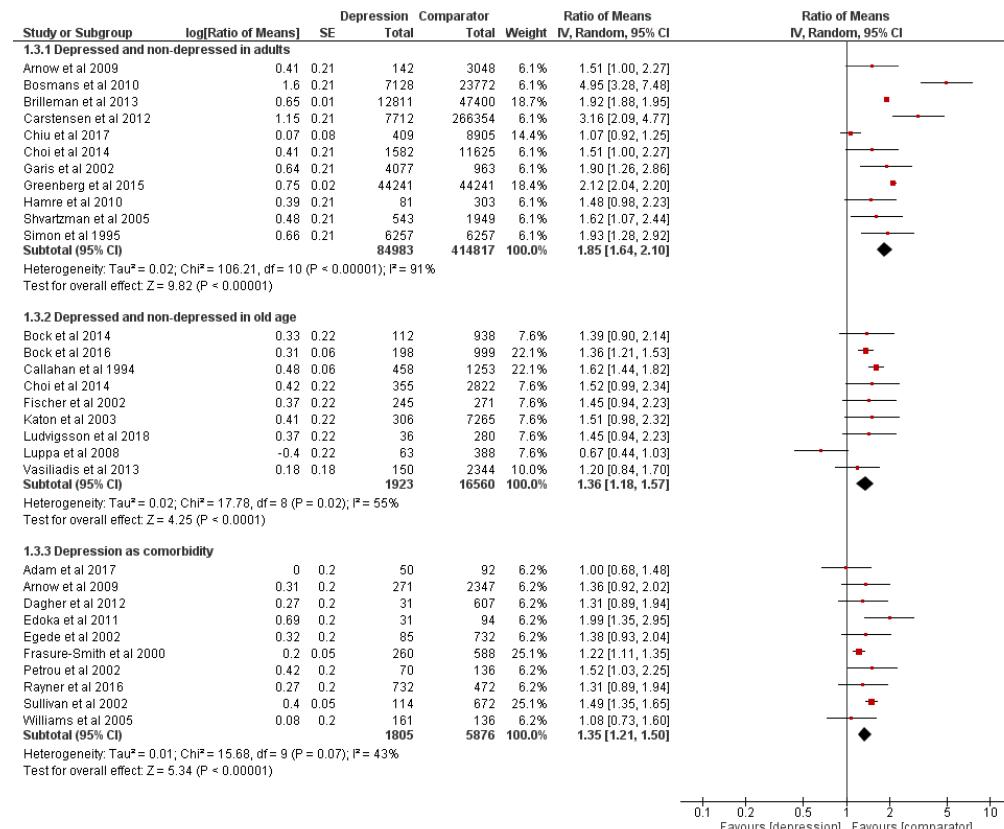


Figure S3(2): Meta-analysis: Forest plot of inpatient excess costs

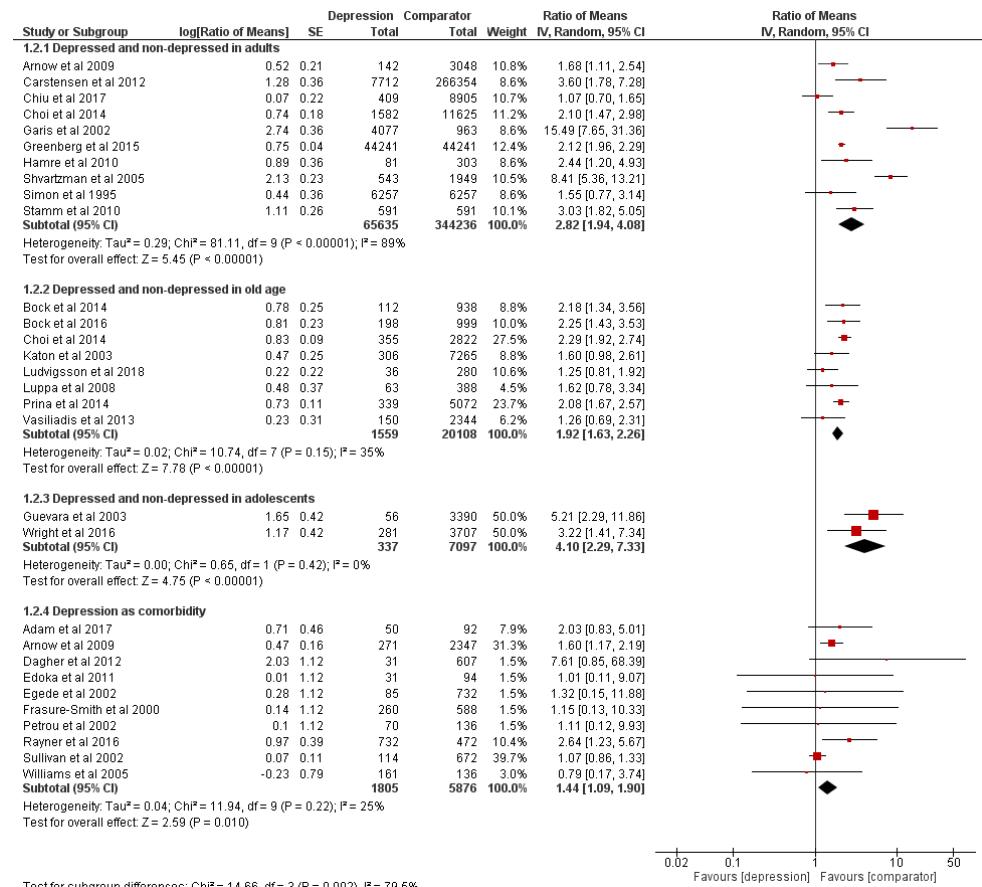


Figure S3(3): Meta-analysis: Forest plot of medication excess costs

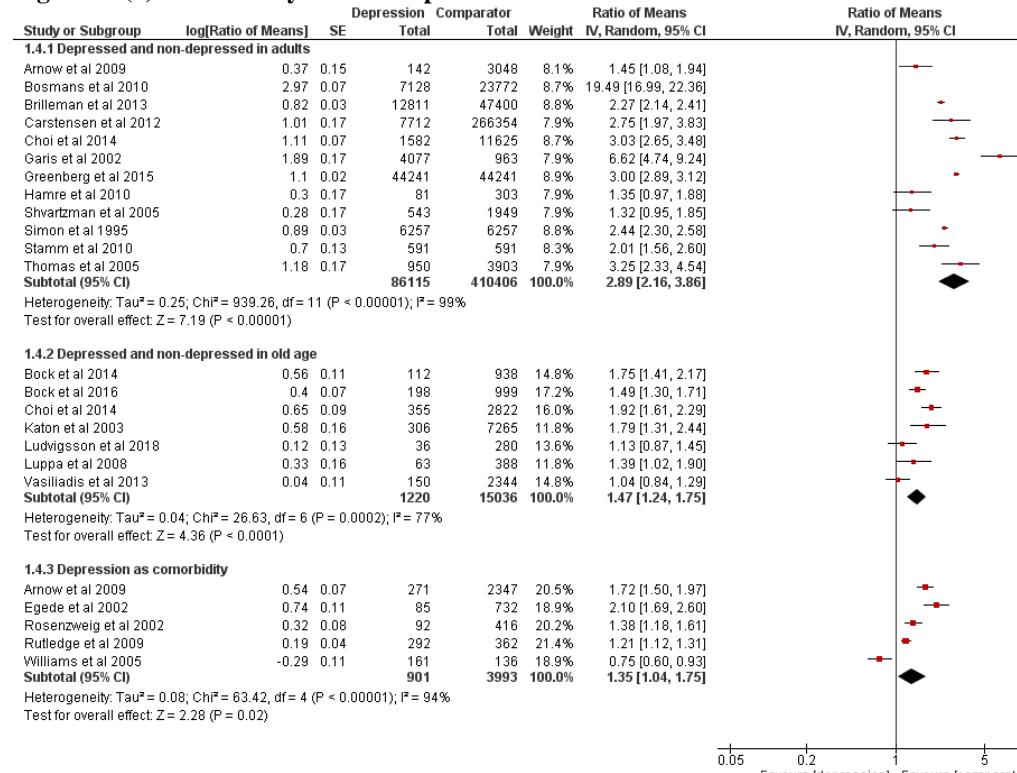


Figure S3(4): Meta-analysis: Forest plot of emergency excess costs

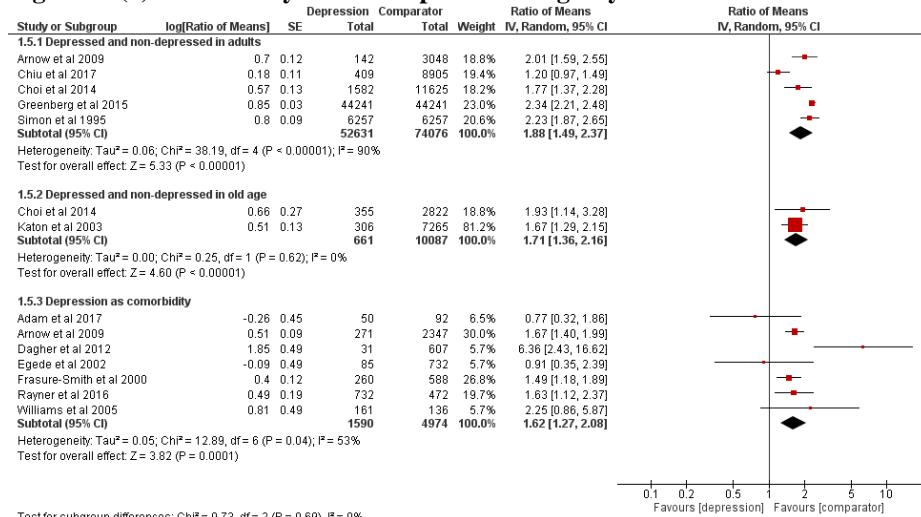
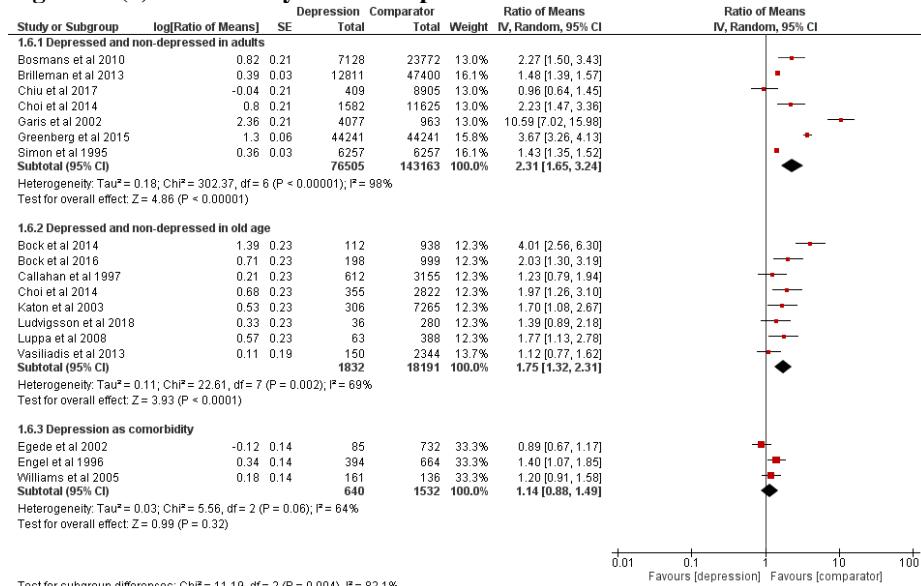


Figure S3(5): Meta-analysis: Forest plot of other direct excess costs



Supplemental 4: Sensitivity Analysis

Analysis (1): Exclusion of outliers

Excess cost category	Subgroup	Outliers	Ratio of Means with outliers	Ratio of Means without outliers
Total direct costs	1	Chiu et al 2017 Garis et al 2002	RoM = 2.58 [2.01, 3.31] $I^2 = 99\%$ Test for overall effect: $Z = 7.41 (P < 0.00001)$	RoM = 2.49 [1.92, 3.23] $I^2 = 99\%$ Test for overall effect: $Z = 6.91 (P < 0.00001)$
Inpatient costs	1	Chiu et al 2017 Garis et al 2002	RoM = 2.82 [1.94, 4.08] $I^2 = 89\%$ $Z = 5.45 (P < 0.00001)$	RoM = 2.66 [1.90, 3.72] $I^2 = 83\%$ $Z = 5.72 (P < 0.00001)$
	4	Dagher et al 2012	RoM = 1.44 [1.09, 1.90] $I^2 = 25\%$ $Z = 2.59 (P = 0.010)$	RoM = 1.35 [1.08, 1.70] $I^2 = 16\%$ $Z = 2.59 (P = 0.010)$
Outpatient costs	1	Bosmans et al Chiu et al 2017 Garis et al 2002	RoM = 1.85 [1.64, 2.10] $I^2 = 91\%$ $Z = 9.82 (P < 0.00001)$	RoM = 1.95 [1.78, 2.14] $I^2 = 77\%$ $Z = 14.34 (P < 0.00001)$
	2	Luppa et al 2008	RoM = 1.36 [1.18, 1.57] $I^2 = 55\%$ $Z = 4.25 (P < 0.0001)$	RoM = 1.47 [1.36, 1.58] $I^2 = 0\%$ $Z = 10.42 (P < 0.00001)$
Medication costs	1	Bosmans et al Garis et al 2002	RoM = 2.89 [2.16, 3.86] $I^2 = 99\%$ $Z = 7.19 (P < 0.00001)$	RoM = 2.26 [1.97, 2.59] $I^2 = 93\%$ $Z = 11.70 (P < 0.00001)$
	4	Williams et al 2005	RoM = 1.35 [1.04, 1.75] $I^2 = 94\%$ $Z = 2.28 (P = 0.02)$	RoM = 1.55 [1.22, 1.95] $I^2 = 91\%$ $Z = 3.67 (P = 0.0002)$
Emergency costs	1	Chiu et al 2017	RoM = 1.88 [1.49, 2.37] $I^2 = 90\%$ $Z = 5.33 (P < 0.00001)$	RoM = 2.17 [1.94, 2.43] $I^2 = 47\%$ $Z = 13.51 (P < 0.00001)$
	4	Dagher et al 2012	RoM = 1.62 [1.27, 2.08] $I^2 = 53\%$ $Z = 3.82 (P = 0.0001)$	RoM = 1.57 [1.37, 1.80] $I^2 = 4\%$ $Z = 6.46 (P < 0.00001)$
Other costs	1	Chiu et al 2017 Garis 2002	RoM = 2.31 [1.65, 3.24] $I^2 = 98\%$ $Z = 4.86 (P < 0.00001)$	RoM = 2.08 [1.53, 2.82] $I^2 = 98\%$ $Z = 4.69 (P < 0.00001)$



Analysis (2): Exclusion of studies in German language

Excess cost category	Subgroup	German language studies	Ratio of Means with German language studies	Ratio of Means without German language studies
Total direct costs	1	Stamm et al 2010	RoM = 2.58 [2.01, 3.31] $I^2 = 99\%$ Test for overall effect: $Z = 7.41 (P < 0.00001)$	RoM = 2.51 [1.94, 3.26] $I^2 = 99\%$ Test for overall effect: $Z = 6.92 (P < 0.00001)$
Inpatient costs	1	Stamm et al 2010	RoM = 2.82 [1.94, 4.08] $I^2 = 89\%$ $Z = 5.45 (P < 0.00001)$	RoM = 2.80 [1.86, 4.21] $I^2 = 89\%$ $Z = 4.94 (P < 0.00001)$
Medication costs	1	Stamm et al 2010	RoM = 2.89 [2.16, 3.86] $I^2 = 99\%$ $Z = 7.19 (P < 0.00001)$	RoM = 2.98 [2.20, 4.05] $I^2 = 99\%$ $Z = 7.05 (P < 0.00001)$

Subgroups:

1= Depressed and non-depressed in adults
3= Depressed and non-depressed in adolescents

2= Depressed and non-depressed in old age
4= Depression as comorbidity