

Supplementary Material

Article Title: Meta-Analysis of the Prevalence of Major Depressive Disorder Among Older Adults With Dementia

THE OFFICIAL IOURNAL OF THE AMERICAN SOCIETY

- Author(s): M. Selim Asmer, MD; Julia Kirkham, MD; Hailey Newton, BSc; Zahinoor Ismail, MDb;Heba Elbayoumi, BSc, Pharm; Roxanne H. Leung, MSc; and Dallas P. Seitz MD, PhD, FRCPC
- DOI Number: https://doi.org/10.4088/JCP.17r11772

List of Supplementary Material for the article

- 1. <u>Figure 1</u> Search Terms Used in Electronic Database Search
- 2. Figure 2 Funnel Plot of the Prevalence of Major Depressive Disorder in Dementia
- 3. <u>Figure 3</u> Forest Plot of the Prevalence of Major Depressive Disorder (MDD) in Dementia by Diagnostic Criteria for MDD
- 4. Figure 4 Forest Plot of Prevalence of Major Depressive Disorder in Dementia by Dementia Severity
- 5. <u>Figure 5</u> Forest Plot of the Prevalence of Major Depressive Disorder according to Clinical Dementia Rating Scale Scores.
- 6. <u>Figure 6</u> Forest Plot of the Prevalence of Major Depressive Disorder in Dementia by Setting of Study
- 7. Figure 7 Forest Plot of the Prevalence of Major Depressive Disorder in Dementia by Continent of Study

Disclaimer

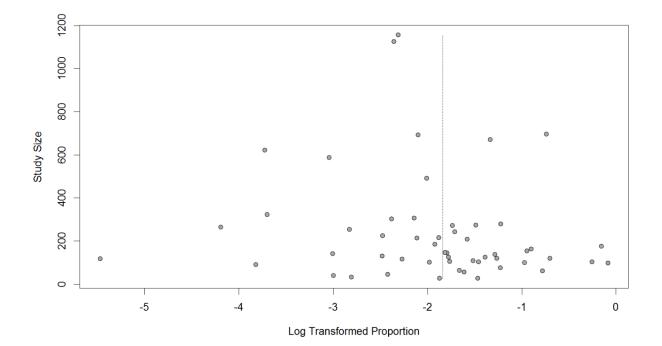
This Supplementary Material has been provided by the author(s) as an enhancement to the published article. It has been approved by peer review; however, it has undergone neither editing nor formatting by in-house editorial staff. The material is presented in the manner supplied by the author.

© Copyright 2018 Physicians Postgraduate Press, Inc.

Supplementary eFigure 1: Search Terms Used in Electronic Database Search

- 1. exp Depressive Disorder/di [Diagnosis]
- 2. exp Depressive Disorder/ep [Epidemiology]
- 3. exp Depression/et [Etiology]
- 4. exp Depressive Disorder, Major/di [Diagnosis]
- 5. exp Depressive Disorder/et [Etiology]
- 6. exp Depressive Disorder, Major/ep [Epidemiology]
- 7. exp Depression/di [Diagnosis]
- 8. exp Depression/ep [Epidemiology]
- 9. exp Depression/cl [Classification]
- 10. depression.mp.
- 11. "major depression".mp.
- 12. "major depressive disorder".mp.
- 13. exp Alzheimer Disease/co [Complications]
- 14. exp Alzheimer Disease/di [Diagnosis]
- 15. exp Alzheimer Disease/ep [Epidemiology]
- 16. exp Dementia/di [Diagnosis]
- 17. exp Dementia/ep [Epidemiology]
- 18. exp Dementia, Vascular/di [Diagnosis]
- 19. exp Dementia, Vascular/ep [Epidemiology]
- 20. exp Dementia, Multi-Infarct/di [Diagnosis]
- 21. exp Dementia, Multi-Infarct/ep [Epidemiology]
- 22. exp Dementia/co [Complications]
- 23. exp Dementia/cl [Classification]
- 24. Alzheimer.mp.
- 25. dementia.mp.

- 26. "dementia with Lewy bodies".mp.
- 27. "Lewy body dementia".mp.
- 28. "Parkinson's disease dementia".mp.
- 29. exp Prevalence/
- 30. exp Retrospective Studies/
- 31. exp Cross-Sectional Studies/
- 32. prevalence.mp.
- 33. frequency.mp.
- 34. exp Incidence/
- 35. incidence.mp.
- 36. exp Epidemiology/
- 37. "prevalence studies".mp.
- 38. 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11 or 12
- 39. 13 or 14 or 15 or 16 or 17 or 18 or 19 or 20 or 21 or 22 or 23 or 24 or 25 or 26 or 27 or 28
- 40. 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37
- 41. 38 and 39 and 40



Supplementary eFigure 2: Funnel Plot of the Prevalence of Major Depressive Disorder in Dementia

Supplementary eFigure 3: Forest Plot of the Prevalence of Major Depressive Disorder (MDD) in

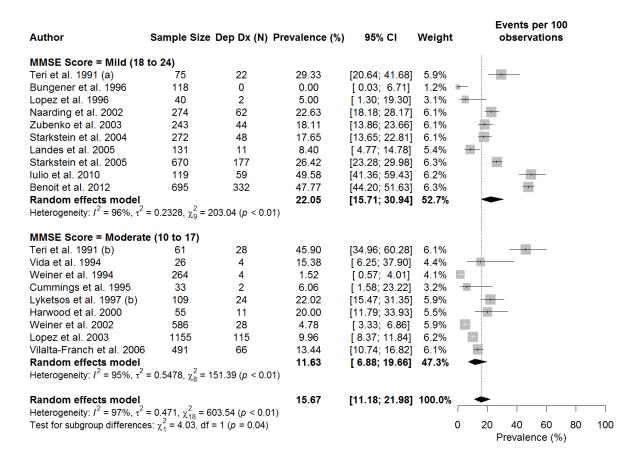
Dementia by Diagnostic Criteria for MDD.

Author	Sample Size	Dep Dx (N) Pi	revalence (%)	95% CI	Weight	Events per 100 observations
			evalence (76)	0070 01	mengin	
Depression Dx Criteria Cummings et al. 1987	= DSM-III-R 45	4	8.89	[3.49; 22.65]	1.5%	
Merriam et al. 1988	175	150	85.71	[80.68; 91.06]		
Rovner et al. 1989	144	24	16.67	[11.57; 24.01]		÷
Rovner et al. 1990	253	15	5.93	[3.63; 9.69]	1.9%	₩
Teri et al. 1991 (a)	75	22	29.33	[20.64; 41.68]		
Teri et al. 1991 (b)	61	28	45.90	[34.96; 60.28]		
Skoog 1993	147	24	16.33	[11.32; 23.54]		+
Troisi et al. 1993	26	6	23.08	[11.44; 46.55]	1.7%	
Forsell et al. 1994	225	19	8.44	[5.49; 12.98]	1.9%	
Weiner et al. 1994	264	4	1.52	[0.57; 4.01]	1.5%	E
Cummings et al. 1995	33	2	6.06	[1.58; 23.22]	1.2%	
Migliorelli et al. 1995	103	24	23.30	[16.41; 33.08]		
Reichman & Coyne 1995 Starkstein et al. 1995	105 103	18 80	17.14 77.67	[11.26; 26.10] [70.03; 86.14]		· · · · · ·
Bungener et al. 1996	118	0	0.00	[0.03; 6.71]	0.5%	-
Lopez et al. 1996	40	2	5.00	[1.30; 19.30]	1.2%	
Lyketsos et al. 1996	137	38	27.74	[21.17; 36.34]		
Zubenko et al. 1996	208	43	20.67	[15.84; 26.98]		
Ballard et al. 1997	124	21	16.94	[11.47; 25.01]		
Starkstein et al. 1997	116	12	10.34	[6.05; 17.68]	1.8%	
Ballard et al. 1999	184	24	13.04	[8.98; 18.94]	1.9%	-
Janzing et al. 1999	91	2	2.20	[0.56; 8.65]	1.2%	*
Liu et al. 1999	141	7	4.96	[2.41; 10.22]	1.7%	
Newman 1999	621	15	2.42	[1.47; 3.98]	1.9%	
Hargrave et al. 2000	691	85	12.30	[10.08; 15.01]		
Harwood et al. 2000	55	11 26	20.00	[11.79; 33.93]		
Ballard et al. 2001 Chemerinksi et al. 2001	214 154	60	12.15 38.96	[8.47; 17.42] [31.97; 47.48]	1.9% 2.0%	
Kertzman et al. 2002	100	38	38.00	[29.58; 48.81]		
Weiner et al. 2002	586	28	4.78	[3.33; 6.86]	1.9%	·
Zubenko et al. 2003	243	44	18.11	[13.86; 23.66]		- -
Ostbye et al. 2005	1125	107	9.51	[7.94; 11.39]	2.0%	+
Starkstein et al. 2005	670	177	26.42	[23.28; 29.98]	2.0%	
Delano-Wood et al. 2008		8	2.48	[1.25; 4.91]	1.7%	±
Random effects model	2		13.19	[9.36; 18.59]	60.8%	•
Heterogeneity: $I^2 = 98\%$, $\tau^2 =$	$0.9439, \chi_{33}^{-} = 200$	6.8 (p < 0.01)				
Depression Dx Criteria						_
Lyketsos et al. 1997 (a)	120	34	28.33	[21.32; 37.66]		_ _
Lyketsos et al. 1997 (b)	109	24	22.02	[15.47; 31.35]		
Forsell & Winblad 1998	306	36	11.76	[8.66; 15.99]	2.0%	-
Forsell et al. 1998	306	36	11.76	[8.66; 15.99]	2.0%	
Naarding et al. 2002 Lopez et al. 2003	274 1155	62 115	22.63 9.96	[18.18; 28.17] [8.37; 11.84]	2.0% 2.0%	
Starkstein et al. 2003	272	48	17.65	[13.65; 22.81]		-
Landes et al. 2005	131	11	8.40	[4.77; 14.78]	1.8%	
Vilalta-Franch et al. 2006		66	13.44	[10.74; 16.82]		
Park et al. 2007	216	33	15.28	[11.16; 20.91]		-
Starkstein et al. 2007	278	82	29.50	[24.59; 35.38]	2.0%	
Teng et al. 2008	101	14	13.86	[8.52; 22.54]	1.9%	<u> </u>
Winter et al. 2011	98	90	91.84	[86.57; 97.42]		_ +
Chiu et al. 2012	302	28	9.27	[6.52; 13.19]		≖
Random effects model Heterogeneity: $I^2 = 99\%$, $\tau^2 =$	$1.258 x^2 = 142$	229(n < 0.01)	17.34	[9.58; 31.38]	27.4%	
neterogeneity. 7 = 55 %, t =	1.200 , χ ₁₃ - 142	2.23 (0 - 0.01)				
Depression Dx Criteria Vilalta-Franch et al. 2006		135	27.49	[23.82; 31.74]	2.0%	—
Teng et al. 2008	101	44	43.56	[23.82; 31.74] [34.89; 54.39]		
Leontjevas et al. 2009	63	12	19.05	[11.45; 31.69]		
lulio et al. 2010	119	59	49.58	[41.36; 59.43]		
Benoit et al. 2012	695	332	47.77	[44.20; 51.63]		
Chiu et al. 2012	302	90	29.80	[25.06; 35.43]		
Random effects model	2		35.64	[27.63; 45.99]		-
Heterogeneity: $I^2 = 93\%$, $\tau^2 =$	0.0878, χ ₅ ² = 70.8	4 (p < 0.01)				
Random effects model			16.18	[12.84; 20.40]	100.0%	÷
Heterogeneity: $I^2 = 98\%$, $\tau^2 =$: 0.6883, χ ² ₅₃ = 351	6.97 (p < 0.01)				
Test for subgroup differences	s: $\chi_2^2 = 22.10^{\circ}$, df = 2	2 (p < 0.01)				0 20 40 60 80 100
						Prevalence (%)

Note: Dep Dx (N): Number of individuals with a depression diagnosis; Depression Dx Criteria: Criteria used to diagnosis depression; DSM-III-R: Diagnostic and Statistics Manual of Mental Disorders, 3rd edition, Revised; DSM-IV: Diagnostic and Statistics Manual of Mental Disorders, 4th edition; NIMH-dAD: National Institute of Mental Health provisional criteria for depression in Azheimer's disease.

Supplementary eFigure 4: Forest Plot of Prevalence of Major Depressive Disorder in Dementia by

Dementia Severity.



Note: Dep Dx (N): Number of individuals with a depression diagnosis; MMSE: Mini-Mental State

Examination

Supplementary eFigure 5: Forest Plot of the Prevalence of Major Depressive Disorder according to

Clinical Dementia Rating Scale Scores.

Author	Sample Size	Dep Dx (N) I	Prevalence (%)	95% CI	Weight	Events per 100 observations
CDR Score = 0.5 (Very	Mild)					
Landes et al. 2005	12	1	8.33	[1.28; 54.42]	1.3%	
Park et al. 2007	78	12	15.38	[9.14; 25.89]	7.4%	
Chiu et al. 2012	99	19	19.19	[12.81; 28.75]		
Random effects model			17.29	[12.62; 23.69]		•
Heterogeneity: $I^2 = 0\%$, τ^2	$= 0, \chi_2^2 = 1.03$ (p	o = 0.60)		,,		
	-					
CDR Score = 1 (Mild)		-				
Landes et al. 2005	62	6	9.68	[4.52; 20.70]	5.1%	
Starkstein et al. 2005	382	98	25.65	[21.63; 30.43]		
Park et al. 2007	84	14	16.67	[10.33; 26.89]		
Chiu et al. 2012	87	21	24.14	[16.63; 35.03]		
Random effects model	2 2		20.27	[14.67; 28.01]	33.2%	•
Heterogeneity: $I^2 = 64\%$, τ^2	$z^{2} = 0.064 , \chi_{3}^{2} = 3$	8.24 (<i>p</i> = 0.04)				
CDR Score = 2 (Modera	ate)					
Landes et al. 2005	38	3	7.89	[2.66; 23.39]	3.2%	
Starkstein et al. 2005	217	62	28.57	[23.15; 35.26]	10.8%	
Park et al. 2007	30	5	16.67	[7.49; 37.10]	4.9%	
Chiu et al. 2012	87	40	45.98	[36.61; 57.74]	10.7%	
Random effects model			25.59	[15.60; 42.00]		
Heterogeneity: $I^2 = 84\%$, τ^2	2 = 0.1752, χ_{3}^{2} =	19.35 (p < 0.01)	• • •		
CDD 0						
CDR Score = 3 (Severe		4	5.00	10 70: 25 461	1 20/	_
Landes et al. 2005	19	1	5.26	[0.78; 35.46]	1.3%	
Starkstein et al. 2005	71 24	17 2	23.94 8.33	[15.82; 36.24]	8.6% 2.4%	
Park et al. 2007	24 29	2 10		[2.21; 31.41]		
Chiu et al. 2012		10	34.48	[20.88; 56.95]	7.6%	
Random effects model Heterogeneity: $I^2 = 56\%$, τ^2		$c_{00} (n - 0.00)$	21.05	[11.81; 37.53]	19.8%	
Heterogeneity: $I = 56\%$, τ	= 0.1675, χ ₃ =	6.82 (p = 0.08)				
Random effects model			21.36	[16.99; 26.86]	100.0%	•
Heterogeneity: $I^2 = 74\%$, τ^2 Test for subgroup difference	² = 0.1146, χ ² ₁₄ =	= 54.84 (p < 0.0	1)			
Test for subgroup difference	$\chi^2_3 = 1.81, d$	f = 3 (p = 0.61)				0 20 40 60 80 100
						Prevalence (%)

Abbreviations: CDR: Clinical Dementia Rating; Dep Dx (N): Number of individuals with a depression

diagnosis.

Supplementary eFigure 6: Forest Plot of the Prevalence of Major Depressive Disorder in Dementia by

Setting of Study.

Author	Sample Size	Dep Dx (N)	Prevalence (%)	95% CI	Weight	Events per 100 observations
Setting = Outpatient						
Rovner et al. 1989	144	24	16.67	[11.57; 24.01]	4.1%	<u> </u>
Teri et al. 1991 (a)	75	22	29.33	[20.64; 41.68]	4.2%	
Bungener et al. 1996	118	0	0.00	[0.03; 6.71]	0.7%	
Ballard et al. 1997	124	21	16.94	[11.47; 25.01]	4.1%	
Lyketsos et al. 1997 (a)	120	34	28.33	[21.32; 37.66]	4.3%	
Starkstein et al. 1997	116	12	10.34	[6.05; 17.68]	3.7%	
Liu et al. 1999	141	7	4.96	2.41; 10.22]	3.2%	+-
Chemerinksi et al. 2001	154	60	38.96	[31.97; 47.48]	4.4%	
Kertzman et al. 2002	100	38	38.00	[29.58; 48.81]	4.4%	
Naarding et al. 2002	274	62	22.63	[18.18; 28.17]	4.4%	
Starkstein et al. 2004	272	48	17.65	[13.65; 22.81]		
Starkstein et al. 2005	670	177	26.42	[23.28; 29.98]	4.5%	
Vilalta-Franch et al. 2006	491	66	13.44	[10.74; 16.82]	4.4%	+
Delano-Wood et al. 2008	323	8	2.48	[1.25; 4.91]	3.3%	+
Teng et al. 2008	101	14	13.86	[8.52; 22.54]	3.9%	
Iulio et al. 2010	119	59	49.58	[41.36; 59.43]		
Benoit et al. 2012	695	332	47.77	[44.20; 51.63]	4.6%	
Chiu et al. 2012	302	28	9.27	[6.52; 13.19]	4.2%	=
Pandom effects model			18 /0	[13.90; 24.36]		→
Heterogeneity: $I^2 = 96\%$, τ^2	² = 0.3172, χ ² ₁₇ =	= 414.37 (p <	0.01)	. / .		
Setting = LTC						
Rovner et al. 1990	253	15	5.93	[3.63; 9.69]	3.8%	+
Leontjevas et al. 2009	63	12	19.05	[11.45; 31.69]	3.8%	
Random effects model				[3.38; 33.28]	7.7%	
Random effects model Heterogeneity: $I^2 = 90\%$, τ^2	= 0.616 , χ ₁ ² =	10.46 (p < 0.	01)	• • •		
Setting = Community						
Forsell et al. 1994	225	19	8.44	[5.49; 12.98]	4.0%	-
Lyketsos et al. 1997 (b)	109	24	22.02	[15.47; 31.35]	4.2%	
Asmar et al. 2014	162	66	40.74	[33.84; 49.06]	4.5%	
Random effects model			19.97	[8.31; 48.00]	12.6%	
Heterogeneity: $I^2 = 96\%$, τ^2	$= 0.571$, $\chi_2^2 =$	46.71 (p < 0.	01)			
Setting = Inpatient						
Zubenko et al. 1996	208	43	20.67	[15.84; 26.98]	4.3%	-
Ballard et al. 1999	184	24	13.04	[8.98; 18.94]	4.1%	-
Random effects model			16.74	[10.68; 26.25]	8.5%	*
Random effects model Heterogeneity: $I^2 = 74\%$, τ^2	$x^2 = 0.0787, \chi_1^2 =$	3.88 (p = 0.0	95)	- · •		
Pandom effects model			17.65	[13.87; 22.46]	100 0%	↓
Random effects model Heterogeneity: $I^2 = 96\%$, τ^2	= 0.32962	= 540 43 (n -		[13.07, 22.40]	100.0%	
Test for subgroup differenc	$-0.3230, \chi_{24}$	- 340.43 (p ≤ f = 3 (n = 0 9	1)			0 20 40 60 80 100
rescior subgroup difference	es. χ ₃ – 0.96, 0	0.8	9			0 20 40 60 80 100 Prevalence (%)
						Flevalence (70)

Note: Dep Dx (N): Number of individuals with a depression diagnosis; LTC: Long-term care.

Supplementary eFigure 7: Forest Plot of the Prevalence of Major Depressive Disorder in Dementia by

Continent of Study.

Author	Sample Size	Dep Dx (N)	Prevalence (%)	95% CI	Weight	Events per 100 observations
ocation = Asia						
iu et al. 1999	141	7	4.96	[2.41; 10.22]	1.7%	+-
Kertzman et al. 2002	100	38	38.00	[29.58; 48.81]	1.9%	
Park et al. 2007	216	33	15.28	[11.16; 20.91]	1.9%	+
Chiu et al. 2012	302	28	9.27	[6.52; 13.19]	1.9%	
Asmar et al. 2014	162	66	40.74	[33.84; 49.06]	2.0%	
Random effects model leterogeneity: $I^2 = 96\%$, $\tau^2 =$	$= 0.5199, \gamma^2 = 9$	95.02 (p < 0.01	16.97	[8.80; 32.70]	9.4%	
		(J	,			
.ocation = Australia Starkstein et al. 2004	272	48	17.65	[13.65; 22.81]	1.9%	-
Random effects model leterogeneity: Not applicable			17.65	[13.65; 22.81]	1.9%	•
.ocation = Europe						
Skoog 1993	147	24	16.33	[11.32; 23.54]	1.9%	
roisi et al. 1993	26	6	23.08	[11.44; 46.55]	1.7%	
orsell et al. 1994	225	19	8.44	[5.49; 12.98]	1.9%	-
Ballard et al. 1996 (a)	124	21	16.94	[11.47; 25.01]	1.9%	
Ballard et al. 1996 (b)	124	31	25.00	[18.43; 33.91]	1.9%	
Bungener et al. 1996	118	0	0.00	[0.03; 6.71]	0.5%	B
Ballard et al. 1997	124	21	16.94	[11.47; 25.01]	1.9%	
orsell & Winblad 1998	306	36	11.76	[8.66; 15.99]	1.9%	-
Forsell et al. 1998	306	36	11.76	[8.66; 15.99]	1.9%	-
Ballard et al. 1999	184	24	13.04	[8.98; 18.94]	1.9%	
lanzing et al. 1999	91	2	2.20	[0.56; 8.65]	1.2%	—
Ballard et al. 2001	214	26	12.15	[8.47; 17.42]	1.9%	₫
laarding et al. 2002	274	62	22.63	[18.18; 28.17]	2.0%	
/ilalta-Franch et al. 2006	491	66	13.44	[10.74; 16.82]	2.0%	
Starkstein et al. 2007	278	82	29.50	[24.59; 35.38]	2.0%	
eontjevas et al. 2009.	63	12	19.05	[11.45; 31.69]	1.8%	
ulio et al. 2010	119	59	49.58	[41.36; 59.43]	2.0%	
Vinter et al. 2011	98	90	91.84	[86.57; 97.42]	2.0%	_ +
Benoit et al. 2012	695	332	47.77	[44.20; 51.63]	2.0%	
Random effects model	-		18.10	[12.38; 26.45]	34.2%	*
ocation = North Americ	a			[3.40:22.65]	1 5%	_
leterogeneity: $I^2 = 98\%$, $\tau^2 =$.ocation = North Americ Cummings et al. 1987 Merriam et al. 1988 Ourse of et al. 2000	a 45 175	4 150	8.89 85.71	[3.49; 22.65] [80.68; 91.06]	1.5% 2.0%	÷=
Location = North Americ Cummings et al. 1987 Merriam et al. 1988 Rovner et al. 1989	a 45 175 144	4 150 24	8.89 85.71 16.67	[80.68; 91.06] [11.57; 24.01]	2.0% 1.9%	*- *
Location = North Americ Cummings et al. 1987 Merriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990	a 45 175 144 253	4 150 24 15	8.89 85.71 16.67 5.93	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69]	2.0% 1.9% 1.8%	* *
.ocation = North Americ Cummings et al. 1987 Merriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 Teri et al. 1991 (a)	a 45 175 144 253 75	4 150 24 15 22	8.89 85.71 16.67 5.93 29.33	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68]	2.0% 1.9% 1.8% 1.9%	* * **
Location = North Americ Cummings et al. 1987 Aerriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 'eri et al. 1991 (a) 'eri et al. 1991 (b)	a 45 175 144 253 75 61	4 150 24 15 22 28	8.89 85.71 16.67 5.93 29.33 45.90	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68] [34.96; 60.28]	2.0% 1.9% 1.8% 1.9% 1.9%	* * ***
Location = North Americ Cummings et al. 1987 Merriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 Feri et al. 1991 (b) Jida et al. 1994	a 45 175 144 253 75 61 26	4 150 24 15 22 28 4	8.89 85.71 16.67 5.93 29.33 45.90 15.38	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68] [34.96; 60.28] [6.25; 37.90]	2.0% 1.9% 1.8% 1.9% 1.9% 1.5%	* * *
Cocation = North Americ Cummings et al. 1987 Merriam et al. 1988 tovner et al. 1989 Sovner et al. 1990 'eri et al. 1991 (a) 'eri et al. 1991 (b) 'ída et al. 1994 Veiner et al. 1994	a 45 175 144 253 75 61 26 264	4 150 24 15 22 28 4 4	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68] [34.96; 60.28] [6.25; 37.90] [0.57; 4.01]	2.0% 1.9% 1.8% 1.9% 1.9% 1.5% 1.5%	* * ****
Location = North Americ Cummings et al. 1987 Aerriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 'eri et al. 1991 (a) 'eri et al. 1991 (b) /ida et al. 1994 Veiner et al. 1994 Cummings et al. 1995	a 45 175 144 253 75 61 26 264 33	4 150 24 15 22 28 4 4 2	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68] [34.96; 60.28] [6.25; 37.90] [0.57; 4.01] [1.58; 23.22]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.5% 1.2%	* * ****
Location = North Americ Cummings et al. 1987 Alerriam et al. 1988 Rovner et al. 1990 Yoner et al. 1991 'eri et al. 1991 (a) 'eri et al. 1994 Veiner et al. 1994 Veiner et al. 1994 Veiner et al. 1995 Reichman & Coyne 1995	a 45 175 144 253 75 61 26 264 33 105	4 150 24 15 22 28 4 4 2 18	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68] [34.96; 60.28] [6.25; 37.90] [0.57; 4.01] [1.58; 23.22] [11.26; 26.10]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.5% 1.2% 1.9%	* *
Location = North Americ Cummings et al. 1987 Merriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 Teri et al. 1991 (a) Teri et al. 1991 (b) Mida et al. 1994 Veiner et al. 1994 Cummings et al. 1995 Reichman & Coyne 1995 Jopez et al. 1996	a 45 175 144 253 75 61 26 264 33 105 40	4 150 24 15 22 28 4 4 2 18 2	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68] [34.96; 60.28] [6.25; 37.90] [0.57; 4.01] [1.58; 23.22] [11.26; 26.10] [1.30; 19.30]	2.0% 1.9% 1.9% 1.9% 1.5% 1.5% 1.2% 1.2%	* * ****
Cocation = North Americ Curmings et al. 1987 Merriam et al. 1988 Kovner et al. 1989 Kovner et al. 1990 ieri et al. 1991 (a) ieri et al. 1991 (a) ieri et al. 1994 Veiner et al. 1994 Veiner et al. 1994 Curmings et al. 1995 keichman & Coyne 1995 opez et al. 1996	a 45 175 144 253 75 61 26 264 33 105 40 137	4 150 24 15 22 28 4 4 2 18 2 38	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68] [34.96; 60.28] [6.25; 37.90] [0.57; 4.01] [1.58; 23.22] [11.26; 26.10] [1.30; 19.30] [21.17; 36.34]	2.0% 1.9% 1.9% 1.9% 1.5% 1.5% 1.2% 1.9% 1.2%	* * * * *
Socation = North Americ Cummings et al. 1987 Aerriam et al. 1988 Sovner et al. 1990 Torner et al. 1991 Teri et al. 1991 (a) "eri et al. 1994 Veiner et al. 1994 Uummings et al. 1995 teichman & Coyne 1995 teichman & Coyne 1995 uummings et al. 1996 yketsos et al. 1996 yketso et al. 1996	a 45 175 144 253 75 61 26 264 33 105 40 137 208	4 150 24 15 22 28 4 2 18 2 18 2 38 43	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68] [34.96; 60.28] [6.25; 37.90] [0.57; 4.01] [1.58; 23.22] [11.26; 26.10] [1.30; 19.30] [21.17; 36.34] [15.84; 26.98]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.2% 1.9% 1.2% 1.9%	* *
Cocation = North Americ Curmnings et al. 1987 Merriam et al. 1988 Kovner et al. 1989 Kovner et al. 1990 eri et al. 1991 (a) eri et al. 1991 (b) ifda et al. 1994 Veiner et al. 1994 Curmnings et al. 1995 keichman & Coyne 1995 keichman & Coyne 1995 ubenko et al. 1996 yketsos et al. 1996 yketsos et al. 1996	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120	4 150 24 15 22 28 4 2 18 2 38 2 38 33 34	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33	[80.68; 91.06] [11.57; 24.01] [3.63; 9.69] [20.64; 41.68] [34.96; 60.28] [6.25; 37.90] [0.57; 4.01] [1.58; 23.22] [11.26; 26.10] [1.30; 19.30] [21.17; 36.34] [15.84; 26.98] [21.32; 37.66]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.2% 1.9% 1.2% 1.9% 1.9%	* *
Location = North Americ Curmnings et al. 1987 Aerriam et al. 1988 kovner et al. 1990 Feri et al. 1991 Feri et al. 1991 (a) Feri et al. 1991 (a) Feri et al. 1994 Veiner et al. 1994 Veiner et al. 1994 Commings et al. 1995 Copez et al. 1996 Lyketsos et al. 1997 (a) Lyketsos et al. 1997 (b)	a 45 175 144 253 75 61 264 33 105 40 137 208 120 109	4 150 24 15 22 28 4 2 18 2 38 43 38 43 34 24	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02	$\begin{matrix} [80.68; 91.06]\\ [11.57; 24.01]\\ [3.63; 9.69]\\ [20.64; 41.68]\\ [34.96; 60.28]\\ [6.25; 37.90]\\ [1.57; 4.01]\\ [1.58; 23.22]\\ [11.26; 26.10]\\ [1.30; 19.30]\\ [21.17; 36.34]\\ [15.84; 26.98]\\ [21.32; 37.66]\\ [15.47; 31.35]\end{matrix}$	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9%	** * ****
Socation = North Americ Cummings et al. 1987 Aerriam et al. 1988 Rovner et al. 1990 Yoner et al. 1991 'eri et al. 1991 (a) 'eri et al. 1994 Uummings et al. 1994 Uumanings et al. 1995 Veiner et al. 1995 Veichman & Coyne 1995 Veichman & Coyne 1995 Uubenko et al. 1996 yketsos et al. 1996 yketsos et al. 1997 (a) yketsos et al. 1997 (b) Jewman 1999	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621	4 150 24 15 22 28 4 4 2 18 2 38 43 34 24 15	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42	$\begin{array}{c} [80.68, 91.06]\\ [11.57, 24.01]\\ [3.63], 9.69]\\ [20.64, 41.68]\\ [34.96, 60.28]\\ [6.25, 37.90]\\ [0.57, 4.01]\\ [1.58, 23.22]\\ [11.26, 26.10]\\ [13.00, 19.30]\\ [21.17, 36.34]\\ [15.84, 26.98]\\ [21.32, 37.66]\\ [15.47, 31.35]\\ [1.47, 3.98] \end{array}$	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.2% 1.9% 1.9% 1.9% 1.9%	* *
Cocation = North Americ Curmnings et al. 1987 Aerriam et al. 1988 kovner et al. 1989 kovner et al. 1990 eri et al. 1991 (a) eri et al. 1991 (b) ifida et al. 1994 Veiner et al. 1994 Veiner et al. 1994 Curmnings et al. 1995 keichman & Coyne 1995 keichman & Coyne 1995 uberko et al. 1996 yketsos et al. 1996 yketsos et al. 1997 (a) yketsos et al. 1999 largrave et al. 2000	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691	4 150 24 15 22 28 4 4 2 18 2 38 34 24 15 85	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30	$\begin{matrix} [80.68, 91.06]\\ [11.57, 24.01]\\ [3.63, 9.69]\\ [20.64, 41.68]\\ [34.96, 60.28]\\ [6.25, 37.90]\\ [0.57, 4.01]\\ [1.58, 23.22]\\ [11.26, 26.10]\\ [11.30, 19.30]\\ [21.17, 36.34]\\ [21.32, 37.66]\\ [15.84, 26.98]\\ [21.32, 37.66]\\ [14.77, 31.85]\\ [14.77, 3.98]\\ [10.08, 15.01]\end{matrix}$	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 1.9% 2.0%	
Socation = North Americ Curmnings et al. 1987 Aerriam et al. 1988 kovner et al. 1989 kovner et al. 1990 'eri et al. 1991 (a) 'eri et al. 1991 (a) 'eri et al. 1991 (b) /ida et al. 1994 Veiner et al. 1994 Curmings et al. 1995 Reichman & Coyne 1995 opez et al. 1996 yketsos et al. 1997 (a) yketsos et al. 1997 (b) largrave et al. 2000 łarwood et al. 2000	a 45 175 144 253 75 61 266 264 33 105 40 137 208 109 621 691 55	4 150 24 15 22 28 4 2 18 2 38 43 34 24 15 85 11	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00	$\begin{matrix} [80.68, 91.06]\\ [11.57, 24.01]\\ [3.63, 9.69]\\ [20.64, 41.68]\\ [34.96, 60.28]\\ [6.25, 37.90]\\ [0.57, 4.01]\\ [1.58, 23.22]\\ [11.26, 26.10]\\ [21.17, 36.34]\\ [15.84, 26.98]\\ [21.32, 37.66]\\ [15.47, 31.35]\\ [14.77, 3.98]\\ [10.08, 15.01]\\ [10.08, 15.01]\\ [11.79, 33.93]\end{matrix}$	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 1.9% 2.0% 1.8%	
ocation = North Americ Jummings et al. 1987 ferriam et al. 1988 tovner et al. 1989 tovner et al. 1990 eri et al. 1991 (a) eri et al. 1991 (b) fida et al. 1994 Veiner et al. 1994 Uummings et al. 1995 teichman & Coyne 1995 opez et al. 1996 yketsos et al. 1996 yketsos et al. 1997 (a) yketsos et al. 1997 (b) lewman 1999 largrave et al. 2000 Veiner et al. 2000	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691	4 150 24 15 22 28 4 4 2 18 2 38 34 24 15 85	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30	$\begin{array}{c} [80.68, 91.06]\\ [11.57, 24.01]\\ [3.63], 9.69]\\ [20.64, 41.68]\\ [34.96, 60.28]\\ [6.25, 37.90]\\ [0.57, 4.01]\\ [1.58, 23.22]\\ [11.26, 26.10]\\ [21.17, 36.34]\\ [21.47, 36.34]\\ [23.27, 36, 34]\\ [15.44, 26.98]\\ [24.32, 37.66]\\ [15.47, 31.35]\\ [1.47, 3.98]\\ [10.08, 15.01]\\ [11.79, 33.93]\\ [3.33, 6.86] \end{array}$	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 1.9% 2.0%	
Cocation = North Americ Curmnings et al. 1987 Merriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 eri et al. 1991 (a) eri et al. 1991 (b) fida et al. 1994 Veiner et al. 1994 Veiner et al. 1995 Reichman & Coyne 1995 Reichman & Coyne 1995 uberko et al. 1996 yketsos et al. 1996 yketsos et al. 1997 (a) yketsos et al. 1997 (b) lewman 1999 largrave et al. 2000 larwood et al. 2000 Lonez et al. 2002 .opez et al. 2003	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 55 586 1155	4 150 24 15 22 28 4 4 2 18 2 38 43 34 24 15 85 11 28	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96	$\begin{matrix} [80.68, 91.06] \\ [11.57, 24.01] \\ [3.63] 9.69] \\ [20.64, 41.68] \\ [34.96, 60.28] \\ [6.25, 37.90] \\ [0.57, 4.01] \\ [1.58, 23.22] \\ [11.26, 26.10] \\ [11.30, 19.30] \\ [21.17, 36.34] \\ [21.32, 37.66] \\ [15.84, 26.98] \\ [21.32, 37.66] \\ [15.7, 31.85] \\ [1.47, 31.85] \\ [1.47, 33.83] \\ [10.08, 15.01] \\ [11.79, 33.93] \\ [3.33, 6.86] \\ [8.37, 11.84] \end{matrix}$	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 1.8% 2.0% 1.8% 2.0%	
Socation = North Americ Curmnings et al. 1987 Aerriam et al. 1988 kovner et al. 1999 kovner et al. 1990 'eri et al. 1991 (a) 'eri et al. 1991 (a) 'eri et al. 1994 Veiner et al. 1994 Vuener et al. 1994 Curmings et al. 1995 Reichman & Coyne 1995 opez et al. 1996 yketsos et al. 1997 (a) yketsos et al. 1997 (a) ubenko et al. 1997 (b) largrave et al. 2000 tarwood et al. 2000 Veiner et al. 2003 ubenko et al. 2003	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 55 586	4 150 24 15 22 28 4 4 2 38 4 2 38 34 24 15 85 11 28 115	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78	$ \begin{bmatrix} 80.68, 91.06] \\ [11.57, 24.01] \\ [3.63, 9.69] \\ [20.64, 41.68] \\ [34.96, 60.28] \\ [6.25, 37.90] \\ [0.57, 4.01] \\ [1.58, 23.22] \\ [11.26, 26.10] \\ [21.32, 37.66] \\ [15.47, 31.35] \\ [14.77, 3.93] \\ [14.77, 3.93] \\ [10.08, 15.01] \\ [14.79, 33.93] \\ [3.33, 6.86] \\ [8.37, 11.84] \\ [13.86, 23.66] \\ \end{cases} $	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 1.8% 2.0% 1.8% 1.9%	
Location = North Americ Cummings et al. 1987 Merriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 Teri et al. 1991 (a) Teri et al. 1991 (b) Mida et al. 1994 Veiner et al. 1994	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 55 55 586 1155 243	4 150 24 15 22 28 4 2 18 2 38 4 2 38 43 34 24 15 85 11 28 115 44	8.89 85.71 16.67 5.93 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11	$\begin{matrix} [80.68, 91.06] \\ [11.57, 24.01] \\ [3.63] 9.69] \\ [20.64, 41.68] \\ [34.96, 60.28] \\ [6.25, 37.90] \\ [0.57, 4.01] \\ [1.58, 23.22] \\ [11.26, 26.10] \\ [11.30, 19.30] \\ [21.17, 36.34] \\ [21.32, 37.66] \\ [15.84, 26.98] \\ [21.32, 37.66] \\ [15.7, 31.85] \\ [1.47, 31.85] \\ [1.47, 33.83] \\ [10.08, 15.01] \\ [11.79, 33.93] \\ [3.33, 6.86] \\ [8.37, 11.84] \end{matrix}$	2.0% 1.9% 1.9% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 2.0% 1.8% 2.0% 1.8% 2.0%	
Location = North Americ Cummings et al. 1987 Merriam et al. 1988 Rovner et al. 1998 Rovner et al. 1990 Teri et al. 1991 (a) Teri et al. 1991 (b) /ida et al. 1994 Veiner et al. 1994 Veiner et al. 1995 Reichman & Coyne 1995 Reichman & Coyne 1995 Uberko et al. 1996 Lyketsos et al. 1997 (b) Vetesos et al. 1997 (a) yketsos et al. 1997 (b) Veimer et al. 2000 targrave et al. 2000 targrave et al. 2000 Loopez et al. 2003 Lubenko et al. 2005 Distye et al. 2005	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 55 586 1155 243 131 1125	4 150 24 15 22 28 4 4 2 18 2 38 43 34 24 15 85 11 28 115 41	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40 9.51	$\begin{matrix} [80.68, 91.06] \\ [11.57, 24.01] \\ [3.63] 9.69] \\ [20.64, 41.68] \\ [34.96, 60.28] \\ [6.25, 37.90] \\ [0.57, 4.01] \\ [1.58, 23.22] \\ [11.26, 26.10] \\ [13.0, 19.30] \\ [21.17, 36.34] \\ [21.32, 37.66] \\ [15.84, 26.98] \\ [21.32, 37.66] \\ [15.7, 31.35] \\ [1.47, 31.84] \\ [13.86, 23.66] \\ [3.37, 11.84] \\ [3.38, 23.66] \\ [4.77, 14.78] \\ [4.77, 14.78] \\ [7.94, 11.39] \end{matrix}$	2.0% 1.9% 1.9% 1.9% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 1.9% 2.0% 1.8% 2.0%	
Location = North Americ Cummings et al. 1987 Aerriam et al. 1988 Rovner et al. 1990 Rovner et al. 1991 Veriant al. 1991 (a) Feri et al. 1994 Veriner et al. 1994 Jummings et al. 1995 Reichman & Coyne 1995 Jopez et al. 1996 Vyketsos et al. 1997 (a) Vyketsos et al. 1997 (b) Harwood et al. 2000 Vairgrave et al. 2000 Jopez et al. 2003 Jobenko et al. 2003 Sobes et al. 2005 Sothype at al. 2005	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 55 586 1155 243 131	4 150 24 15 22 28 4 4 2 38 43 34 24 18 23 83 34 24 15 85 11 28 115 44 115 44 11	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40	$\begin{array}{c} [80.68, 91.06]\\ [11.57, 24.01]\\ [3.63], 9.69]\\ [20.64, 41.68]\\ [34.96, 60.28]\\ [6.25, 37.90]\\ [0.57, 4.01]\\ [1.58, 23.22]\\ [11.26, 26.10]\\ [21.17, 36.34]\\ [21.47, 36.34]\\ [15.84, 26.98]\\ [21.32, 37.66]\\ [15.47, 31.35]\\ [10.88, 15.01]\\ [11.79, 33.93]\\ [3.33, 6.86]\\ [8.37, 11.84]\\ [13.86, 23.66]\\ [13.86, 23.66]\\ [13.86$	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.2% 1.9% 1.9% 1.9% 2.0% 1.8% 1.9% 1.8%	
Cocation = North Americ Curmnings et al. 1987 Aerriam et al. 1988 kovner et al. 1989 kovner et al. 1990 'eri et al. 1991 (a) 'eri et al. 1991 (b) 'ida et al. 1994 Veiner et al. 1994 Veiner et al. 1994 Curmnings et al. 1995 keichman & Coyne 1995 opez et al. 1996 yketsos et al. 1996 yketsos et al. 1997 (b) lewman 1999 largrave et al. 2000 Veiner et al. 2000 Veiner et al. 2002 .opez et al. 2003 Lubenko et al. 2003 Jubenko et al. 2005 Sotbye et al. 2005 Delano-Wood et al. 2008 erg et al. 2008 Kandom effects model	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 691 55 586 1155 243 131 1125 323 101	4 150 24 15 22 28 4 4 2 18 2 38 4 2 4 15 85 11 28 85 11 28 115 44 115 85 11 28 85 11 28 85 11 28 85 115 22 38 34 24 15 22 28 4 4 2 38 34 24 15 22 28 28 4 28 28 29 28 29 28 29 29 29 29 20 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40 9.51 2.48 13.86 12.20	$ \begin{bmatrix} 80.68, 91.06] \\ [11.57, 24.01] \\ [3.63, 9.69] \\ [20.64, 41.68] \\ [34.96, 60.28] \\ [6.25, 37.90] \\ [0.57, 4.01] \\ [1.58, 23.22] \\ [11.26, 26.10] \\ [21.17, 36.34] \\ [15.84, 26.98] \\ [21.32, 37.66] \\ [15.47, 31.35] \\ [14.77, 3.93] \\ [3.33, 6.86] \\ [3.37, 11.84] \\ [13.86, 23.66] \\ [4.77, 14.78] \\ [1.26, 4.91] \\ [1.26, 4.91] \\ \end{array} $	2.0% 1.9% 1.8% 1.9% 1.5% 1.2% 1.2% 1.9% 1.9% 1.9% 1.9% 1.8% 2.0% 1.8% 2.0% 1.8%	
cocation = North Americ Jummings et al. 1987 ferriam et al. 1988 tovner et al. 1998 tovner et al. 1991 (a) eri et al. 1991 (b) fida et al. 1994 Veiner et al. 1994 Uummings et al. 1995 teichman & Coyne 1995 opez et al. 1996 yketsos et al. 1996 yketsos et al. 1997 (a) yketsos et al. 1997 (b) lewman 1999 largrave et al. 2000 Veiner et al. 2000 Veiner et al. 2000 vopez et al. 2000 ubenko et al. 2000 Jubenko et al. 2000 Jubenko et al. 2000 Sottope et al. 2005 Jostbye et al. 2008 tandom effects model leterogeneity: $I^2 = 99\%$, $\tau^2 =$	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 55 5866 1155 243 1311 1125 323 101 $ext{intro}$ 1223 1201 1224 1224 1225 1255 1255 12555 12555 12555	4 150 24 15 22 28 4 4 2 18 2 38 4 2 4 15 85 11 28 85 11 28 115 44 115 85 11 28 85 11 28 85 11 28 85 115 22 38 34 24 15 22 28 4 4 2 38 34 24 15 22 28 28 4 28 28 29 28 29 28 29 29 29 29 20 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40 9.51 2.48 13.86 12.20	$\begin{array}{c} [80.68, 91.06]\\ [11.57, 24.01]\\ [3.63], 9.69]\\ [20.64, 41.68]\\ [34.96, 60.28]\\ [6.25, 37.90]\\ [0.57, 4.01]\\ [1.58, 23.22]\\ [11.26, 26.10]\\ [21.17, 36.34]\\ [21.32, 37.66]\\ [15.44, 26.98]\\ [21.32, 37.66]\\ [15.47, 31.35]\\ [10.88, 15.01]\\ [1.79, 33.93]\\ [3.33, 6.86]\\ [8.37, 11.84]\\ [13.86, 23.66]\\ [8.37, 11.84]\\ [13.86, 23.66]\\ [1.37, 44, 11.39]\\ [1.25, 4.91]\\ [1.25, 4.91]\\ [8.52, 22.54] \end{array}$	2.0% 1.9% 1.8% 1.9% 1.5% 1.2% 1.2% 1.9% 1.9% 1.9% 1.9% 1.8% 2.0% 1.8% 2.0% 1.8%	
Cocation = North Americ Curmnings et al. 1987 Aerriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 'eri et al. 1991 (a) 'eri et al. 1991 (b) 'ída et al. 1994 Veiner et al. 1994 Veiner et al. 1994 Veiner et al. 1995 Robert et al. 1995 Robert et al. 1996 Syketsos et al. 1997 (a) yketsos et al. 1997 (a) yketsos et al. 1997 (b) Jewman 1999 Hargrave et al. 2000 Veiner et al. 2000 Veiner et al. 2000 Sobye et al. 2003 Subenko et al. 2003 Sobye et al. 2005 Delano-Wood et al. 2008 Random effects model leterogeneity: $I^2 = 99\%$, $\tau^2 =$	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 555 586 1155 243 131 1125 323 101 $ext{i} = 1.433, \chi^2_{24} = ext{i}$	$\begin{array}{c} 4\\ 150\\ 24\\ 15\\ 22\\ 28\\ 4\\ 4\\ 2\\ 18\\ 2\\ 38\\ 43\\ 34\\ 24\\ 15\\ 85\\ 11\\ 15\\ 85\\ 11\\ 107\\ 8\\ 115\\ 107\\ 8\\ 14\\ 1859.2 \left(p < 0.0 \right) \end{array}$	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40 9.51 2.48 13.86 12.20 01)	[80.68, 91.06] [11.57, 24.01] [3.63] 9.69] [20.64, 41.68] [3.49,6] 60.28] [6.25, 37.90] [0.57, 4.01] [1.26, 23.22] [11.26, 26.10] [13.07, 13.03] [21.17, 36.34] [15.84, 26.98] [21.32, 37.66] [15.77, 31.35] [1.47, 31.84] [3.33, 6.86] [8.37, 11.84] [3.33, 6.86] [4.77, 14.78] [7.94, 11.39] [1.25, 4.91] [8.52, 22.54] [8.52, 22.54]	2.0% 1.9% 1.8% 1.9% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 1.9% 2.0% 1.8% 2.0% 1.8% 2.0% 1.8% 4.8% 44.8%	
Location = North Americ Curmnings et al. 1987 Aerriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 Teri et al. 1991 (a) Feri et al. 1991 (b) fida et al. 1994 Veiner et al. 1994 Uurmnings et al. 1995 Reichman & Coyne 1995 Deze et al. 1996 Lubenko et al. 1996 Lubenko et al. 1997 (a) Jyketsos et al. 1997 (a) Jyketsos et al. 1997 (b) Jewman 1999 Laryaou et al. 2000 Veiner et al. 2000 Veiner et al. 2000 Veiner et al. 2000 Veiner et al. 2003 Jubenko et al. 2003 Jubenko et al. 2005 Delano-Wood et al. 2008 Random effects model Idetrogeneity: $I^2 = 99\%$, $\tau^2 =$ Location = South Americo Angionelli et al. 1995	a 45 175 144 253 75 61 26 264 264 40 137 208 120 109 621 691 55 586 1155 243 131 1155 243 101 $ext{1}$	$\begin{array}{c} 4\\ 150\\ 24\\ 15\\ 22\\ 28\\ 4\\ 4\\ 2\\ 18\\ 2\\ 18\\ 2\\ 38\\ 43\\ 34\\ 18\\ 5\\ 11\\ 28\\ 115\\ 85\\ 11\\ 28\\ 115\\ 44\\ 11\\ 107\\ 8\\ 14\\ 1859.2\ (p < 0.0\\ 24\\ 11\\ 107\\ 8\\ 14\\ 1859.2\ (p < 0.0\\ 24\\ 12\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.111 8.40 9.51 2.48 13.86 12.20 11) 23.30	[80.68, 91.06] [11.57; 24.01] [20.64; 41.68] [34.96; 60.28] [6.25; 37.90] [0.57; 4.01] [1.58; 23.22] [11.26; 26.10] [13.06; 26.10] [21.17; 36.34] [21.32; 37.66] [21.32; 37.66] [15.47; 31.35] [1.47; 3.98] [10.08; 15.01] [3.33; 6.86] [8.37; 11.84] [3.36; 23.66] [4.77; 14.78] [7.94; 11.39] [1.25; 22.54] [7.52; 19.78] [16.41; 33.08]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 1.8% 2.0% 1.8% 2.0% 1.8% 44.8%	
Location = North Americ Cummings et al. 1987 Alerriam et al. 1988 Rovner et al. 1990 Sovner et al. 1991 Sovner et al. 1991 Feir et al. 1991 (a) Feir et al. 1994 Veiner et al. 1994 Veiner et al. 1995 Scichman & Coyne 1995 Jyketsos et al. 1996 Lyberkos et al. 1997 (a) Lyketsos et al. 1997 (b) Haryace et al. 2007 Jarwood et al. 2000 Veiner et al. 2000 Veiner et al. 2002 Opez et al. 2003 Jubenko et al. 2000 Veiner et al. 2002 Opez et al. 2003 Jubenko et al. 2005 Delanood et al. 2008 Random effects model Ieterogeneity: I ² = 99%, r ² = Cocation = South America Migliorelli et al. 1995	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 55 586 1155 243 131 1125 323 101 e 1.433, $\chi^2_{24} =$ a 103 103	4 150 24 15 22 28 4 4 2 18 2 38 43 34 2 38 43 34 24 15 85 11 28 15 85 11 28 115 44 11 107 8 14 115 28 44 115 28 4 4 34 20 24 18 2 38 4 38 4 34 20 20 38 4 4 38 4 38 4 34 20 20 20 20 20 20 20 20 20 20 20 20 20	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.40 9.51 2.48 13.86 12.20))))))))))))))	[80.68, 91.06] [11.57, 24.01] [3.63, 9.69] [20.64, 41.68] [3.4.96, 60.28] [6.25, 37.90] [0.57, 4.01] [1.58, 23.22] [11.26, 26.10] [13.07, 13.30] [21.17, 36.34] [15.84, 26.98] [21.32, 37.66] [15.47, 31.35] [10.81, 15.34] [10.81, 15.34] [1.38, 13.36] [8.37, 11.84] [1.38, 13.686] [8.37, 11.84] [1.38, 13.686] [8.37, 11.84] [1.38, 13.686] [8.37, 11.84] [1.52, 22.54] [1.52, 19.78] [1.52, 19.78] [1.52, 19.78]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 2.0% 1.9% 2.0% 1.8% 2.0% 1.8% 2.0% 1.8% 2.0%	
Location = North Americ Cummings et al. 1987 Aerriam et al. 1988 Rovner et al. 1990 Fair and the second sec	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 555 586 1155 243 131 1125 323 101 $ext{i} 1, ext{i} 2, e$	$\begin{array}{c} 4\\ 150\\ 24\\ 15\\ 22\\ 28\\ 4\\ 4\\ 2\\ 38\\ 4\\ 2\\ 38\\ 43\\ 34\\ 24\\ 15\\ 85\\ 11\\ 15\\ 85\\ 11\\ 107\\ 8\\ 11\\ 107\\ 8\\ 14\\ 1859.2\ (p < 0.0\\ 24\\ 80\\ 12\\ \end{array}$	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40 9.51 2.48 13.26 18.11 8.40 9.51 2.48 13.86 12.20 (1) 2.30 77.67 10.34	[80.68, 91.06] [11.57, 24.01] [3.63] 9.69] [20.64, 41.68] [3.49,6] 60.28] [6.25, 37.90] [0.57, 4.01] [1.36, 23.22] [11.26, 26.10] [13.64, 26.98] [21.32, 37.66] [15.84, 26.98] [21.32, 37.66] [15.77, 31.35] [10.08, 15.01] [11.79, 33.93] [3.33, 6.86] [3.37, 11.84] [13.86, 23.66] [7.94, 11.39] [1.25, 4.91] [8.52, 22.54] [7.52, 19.78] [16.41, 33.08] [16.41, 33.08] [16.41, 33.08]	2.0% 1.9% 1.8% 1.9% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 2.0% 1.8% 2.0% 1.8% 44.8%	
Location = North Americ Curmnings et al. 1987 Aerriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 Teri et al. 1991 (a) Feri et al. 1991 (b) frid at al. 1994 Veiner et al. 1994 Veiner et al. 1994 Curmnings et al. 1995 Reichman & Coyne 1995 Opez et al. 1996 Lubenko et al. 1996 Lubenko et al. 1997 (a) Lyketsos et al. 1997 (a) Lyketsos et al. 1997 (b) Lewman 1999 Haryrave et al. 2000 Veiner et al. 2000 Veiner et al. 2002 Jobenko et al. 2003 Lubenko et al. 2003 Lubenko et al. 2005 Distbye et al. 2005 D	a 45 175 144 253 75 61 26 264 264 40 137 208 120 109 621 691 55 586 1155 243 131 1125 323 101 $ext{1}$	$\begin{array}{c} 4\\ 150\\ 24\\ 15\\ 22\\ 28\\ 4\\ 4\\ 2\\ 18\\ 2\\ 18\\ 2\\ 38\\ 43\\ 34\\ 24\\ 15\\ 85\\ 11\\ 28\\ 115\\ 85\\ 11\\ 28\\ 115\\ 44\\ 11\\ 107\\ 8\\ 14\\ 1859, 2\ (p < 0.0\\ 24\\ 80\\ 12\\ 60\\ \end{array}$	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40 9.51 2.48 13.86 12.20 01) 23.30 77.67 10.34 38.96	[80.68, 91.06] [11.57, 24.01] [20.64, 41.68] [34.96, 60.28] [6.25, 37.90] [0.57, 4.01] [1.58, 23.22] [11.26, 26.10] [13.03, 19.30] [21.17, 36.34] [15.84, 26.98] [21.32, 37.66] [15.47, 31.35] [1.47, 3.98] [10.08, 15.01] [3.33, 6.86] [8.37, 11.84] [3.38, 623.66] [4.77, 14.78] [7.94, 11.39] [1.25, 4.91] [8.52; 22.54] [7.52; 19.78] [16.41, 33.08] [70.03, 86.14] [6.05, 17.68] [31.97, 47.48]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 1.9% 2.0% 1.8% 2.0% 1.8% 44.8%	
Location = North Americ Curmnings et al. 1987 Aerriam et al. 1988 Rovner et al. 1998 Rovner et al. 1999 Rovner et al. 1991 (a) Feri et al. 1991 (a) Feri et al. 1994 Veiner et al. 1994 Uurmnings et al. 1995 Reichman & Coyne 1995 Lubenko et al. 1996 Lubenko et al. 1996 Lubenko et al. 1997 (a) Lyketsos et al. 1997 (b) Hewman 1999 Hargrave et al. 2000 Veiner et al. 2000 Veiner et al. 2003 Lubenko et al. 2003 Suberko et al. 2005 Delano-Wood et al. 2008 Readom effects model Heterogeneity: $I^2 = 99\%$, $\tau^2 =$ Location = South Americo Migliorelli et al. 1995 Starkstein et al. 1997 Chemerinksi et al. 2005 Starkstein et al. 2005 Random effects model	a 45 175 144 253 75 61 26 264 264 40 137 208 120 109 621 691 55 586 1155 243 131 1125 323 101 $ext{1}{2}$ ex	$\begin{array}{c} 4\\ 150\\ 24\\ 15\\ 22\\ 28\\ 4\\ 4\\ 2\\ 18\\ 2\\ 18\\ 2\\ 18\\ 2\\ 38\\ 43\\ 34\\ 24\\ 15\\ 85\\ 11\\ 28\\ 115\\ 44\\ 11\\ 107\\ 8\\ 14\\ 1859.2\ (p < 0.0\\ 177\\ 60\\ 177\\ \end{array}$	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40 9.51 2.48 13.86 12.20 11 23.30 77.67 10.34 38.96 26.42 29.53	[80.68, 91.06] [11.57, 24.01] [3.63] 9.69] [20.64, 41.68] [3.49,6] 60.28] [6.25, 37.90] [0.57, 4.01] [1.36, 23.22] [11.26, 26.10] [13.64, 26.98] [21.32, 37.66] [15.84, 26.98] [21.32, 37.66] [15.77, 31.35] [10.08, 15.01] [11.79, 33.93] [3.33, 6.86] [3.37, 11.84] [13.86, 23.66] [7.94, 11.39] [1.25, 4.91] [8.52, 22.54] [7.52, 19.78] [16.41, 33.08] [16.41, 33.08] [16.41, 33.08]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 2.0% 1.8% 2.0% 1.8% 2.0% 1.8% 2.0% 1.8% 2.0%	
Location = North Americ Curmnings et al. 1987 Merriam et al. 1988 Rovner et al. 1989 Rovner et al. 1990 Feri et al. 1991 (a) Teri et al. 1991 (b) Jida et al. 1994 Weiner et al. 1994 Weiner et al. 1995 Reichman & Coyne 1995 Opez et al. 1996 Lyketsos et al. 1996 Lyketsos et al. 1997 (a) Lyketsos et al. 1997 (b) Jyketsos et al. 1997 (b) Hewman 1999 Hargrave et al. 2000 Veiner et al. 2000 Veiner et al. 2000 Subenko et al. 2000 Subenko et al. 2000 Suberko et al. 2005 Delano-Wood et al. 2008 Random effects modell Heterogeneity: $I^2 = 99\%$, $\tau^2 =$ Location = South America Airdiscient et al. 2005 Starkstein et al. 2005 Random effects modell Jostarkstein et al. 2005 Random effects model Jostarkstein et al. 2005 Random effects model Jostarkstein et al. 2005 Random effects model Jeterogeneity: $I^2 = 98\%$, τ^2	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 55 586 1155 243 131 1125 323 101 = 1.433, $\chi^2_{24} = \frac{2}{3}$ a 103 116 154 670 = 0.4521, $\chi^2_4 = \frac{2}{3}$	4 150 24 15 22 28 4 4 2 18 2 38 43 34 24 15 85 11 28 115 44 11 107 8 14 18 19 60 177 219.27 $(p < 0.0)$	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40 9.51 2.48 13.86 12.20 11) 23.30 77.67 10.34 38.96 26.42 29.53 11)	[80.68, 91.06] [11.57, 24.01] [3.63, 9.69] [20.64, 41.68] [3.49, 60.28] [6.25, 37.90] [0.57, 4.01] [1.58, 23.22] [11.26, 26.10] [13.07, 13.03] [21.17, 36.34] [15.84, 26.98] [21.32, 37.66] [15.47, 31.35] [10.81, 15.84] [10.81, 15.84] [1.47, 39.83] [10.81, 15.84] [3.33, 6.86] [8.37, 11.84] [1.38, 23.68] [8.37, 11.84] [1.47, 13.78] [1.25, 4.91] [8.52, 22.54] [7.52; 19.78] [1.47; 33.08] [70.03, 86.14] [6.05, 17.68] [31.97, 47.48] [31.97, 47.48] [31.97, 47.48] [31.97, 47.48]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 2.0% 1.8% 2.0% 1.8% 2.0% 1.8% 2.0% 1.8% 2.0%	
cocation = North Americ Cummings et al. 1987 ferriam et al. 1988 tovner et al. 1989 tovner et al. 1990 (a) teri et al. 1991 (b) fida et al. 1991 (a) teri et al. 1994 Veiner et al. 1994 Veiner et al. 1994 Veiner et al. 1995 teichman & Coyne 1995 teichman & Coyne 1995 teichman & Coyne 1995 teichman & Coyne 1995 (b) ter et al. 1996 (b) ter et al. 1996 (b) ter et al. 1997 (b) ter et al. 2000 tarwood et al. 2000 Veiner et al. 2000 Veiner et al. 2000 Veiner et al. 2003 andes et al. 2003 andes et al. 2005 Distbye et al. 2008 teanoum feft cs model tetrogeneity: $I^2 = 99\%$, $\tau^2 =$ cocation = South Americo figliorelli et al. 1995 tarkstein et al. 1997 Chemerinksi et al. 2005 tarkstein et al. 2005	a 45 175 144 253 75 61 26 264 33 105 40 137 208 120 109 621 691 55 586 1155 243 131 1125 323 101 = 1.433, $\chi^2_{24} = \frac{2}{3}$ a 103 116 154 670 = 0.4521, $\chi^2_4 = \frac{2}{3}$	4 150 24 15 22 28 4 4 2 18 2 38 43 34 24 15 85 11 28 115 44 11 107 8 14 18 19 60 177 219.27 $(p < 0.0)$	8.89 85.71 16.67 5.93 29.33 45.90 15.38 1.52 6.06 17.14 5.00 27.74 20.67 28.33 22.02 2.42 12.30 20.00 4.78 9.96 18.11 8.40 9.51 2.48 13.86 12.20 11) 23.30 77.67 10.34 38.96 26.42 29.53 11)	[80.68, 91.06] [11.57, 24.01] [3.63, 9.69] [20.64, 41.68] [3.49, 60.28] [6.25, 37.90] [0.57, 4.01] [1.58, 23.22] [11.26, 26.10] [13.07, 13.03] [21.17, 36.34] [15.84, 26.98] [21.32, 37.66] [15.47, 31.35] [10.81, 15.84] [10.81, 15.84] [1.47, 39.83] [10.81, 15.84] [3.33, 6.86] [8.37, 11.84] [1.38, 23.68] [8.37, 11.84] [1.47, 13.78] [1.25, 4.91] [8.52, 22.54] [7.52; 19.78] [1.47; 33.08] [70.03, 86.14] [6.05, 17.68] [31.97, 47.48] [31.97, 47.48] [31.97, 47.48] [31.97, 47.48]	2.0% 1.9% 1.8% 1.9% 1.5% 1.5% 1.2% 1.9% 1.9% 1.9% 1.9% 2.0% 1.8% 2.0% 1.8% 2.0% 1.8% 44.8%	

Note: Dep Dx (N): Number of individuals with a depression diagnosis.