Section 5. Complementary and Alternative Medicine Treatments.

Supplemental Online eTables

Supplemental eTable 5.1. Evidence for light therapy.

Authors	Year	Туре	n	Effect Size	Key Findings
Perera et al.	2016	Meta- analysis	20	SMD = -0.41, 95% CI: -0.64, -0.18	Superior to placebo/control as monotherapy or augmentation in non-seasonal mild to severe MDD
Bauer et al.	2013	Systematic review	NR	Not reported	Supports 2009 recommendations for seasonal MDD
Dirmaier et al.	2012	Systematic review	NR	Not reported	Supports 2009 recommendations
Güleç	2011	Systematic review	NR	Not reported	Supports 2009 recommendations; effective for seasonal and non- seasonal depression
Mårtensson et al	2015	Meta- analysis	10 trials, n=714	SMD = -0.54, 95% CI: 0.95, 0.13	Generally effective for moderate seasonal MDD, but evidence not unequivocal
Pail et al.	2011	Systematic review	NR	Not reported	Supports 2009 recommendations for mild to severe MDD
Lam et al.	2015	RCT	122	1. $d = 0.80$; 95% CI: 0.28 to 1.31; p = 0.006 2. $d = 1.11$; 95% CI: 0.54 to 1.64; p < 0.001	 Monotherapy superior to placebo for non-seasonal moderate MDD Augmentation superior to placebo for non-seasonal MDD
Martiny et al.	2012	RCT	75	OR = 2.8; 95% CI: 1.1–7.3, <i>p</i> = 0.04	Augmentation with chronotherapeutic techniques (LT, SD, wake therapy) superior to augmentation with exercise for mild to severe non-seasonal MDD
Martiny et al.	2015	RCT (follow-up)	75	OR = 2.6, CL: 1.3–5.6, <i>p</i> = 0.01	Superiority of chronotherapeutic techniques as augmentation maintained after 20 weeks of treatment for mild to severe non- seasonal MDD
Rohan et al.	2015a	RCT	177	$\chi^2 = 0.003$ and 1.06, $p = 0.96$ and 0.30	Similar efficacy to CBT (as monotherapy or augmentation) for moderate seasonal MDD
Rohan et al.	2015b	RCT (naturalistic follow-up)	177	Fewer recurrences for CBT (27.3%) than light therapy (45.6%)	CBT superior in relapse prevention at two-year follow-up for moderate seasonal MDD

Supplemental eTable 5.2. Evidence for sleep deprivation.

Authors	Year	Туре	n	Effect Size	Key Findings
Ravindran and da	2013	Systematic	16	Not reported	Supports use of SD as
Silva		review			augmentation to
					antidepressants in mild to
					severe MDD
Kundermann et al.	2009	RCT	18	Not significant	No significant clinical effect
					as augmentation to
					psychotherapy to moderate to
					severe MDD
Martiny et al.	2012	RCT	75	OR = 2.8; 95% CI: 1.1–7.3, <i>p</i> = 0.04	Augmentation to
					antidepressants with
					chronotherapeutic techniques
					(SD, LT, wake therapy)
					superior to augmentation with
					exercise for non-seasonal mild
					to severe MDD

Supplemental eTable 5.3. Evidence for exercise.

Authors	Year	Туре	n	Effect Size	Key Findings
Cooney et al.	2013	Meta- analysis	39 trials, n=2,326	1. SMD = -0.62, 95% CI: -0.81 to -0.42; n=35 2. SMD = -0.03, 95% CI: -0.32 to 0.26, n=7 3. SMD = -0.11, 95% CI: -0.34 to 0.12, n=4 4. SMD = -0.33, 95% CI: -0.63 to -0.03; n=8	In mild to severe MDD, 1. Superior to no- treatment control conditions 2. Comparable to psychotherapy 3. Comparable to pharmacotherapy 4. Small effect for long-term benefits
Josefsson et al.	2014	Meta- analysis	13 trials, n=720	Hedges' <i>g</i> = -0.77, 95% CI: -1.14 to -0.41, <i>p</i> < 0.001	Superior to no- treatment control conditions and comparable to psychotherapy or pharmacotherapy for mild to moderate unipolar depression
Krogh et al.	2011	Meta- analysis	1. 13 trials, n=687 2. 5 trials, n=328	1. SMD = -0.40, 95% CI: -0.66 to -0.14 2. SMD = -0.01, 95% CI: -0.28 to 0.26	For mild to moderate MDD, 1. Effective as augmentation in short- term 2. No beneficial effect for interventions longer than 10 weeks

Rosenbaum	2014	Meta-	20 trials,	SMD = 0.80, 95% CI: 0.47 to	Superior to TAU, wait-
et al.		analysis	n=1,298	1.13, <i>p</i> < 0.001	list, or placebo
					conditions for moderate
					to severe depressive
					symptoms
Silveira et	2013	Meta-	10 trials,	SMD = 0.61, 95% CI: -0.88 to -	Superior to control
al.		analysis	n=758	0.33, <i>p</i> < 0.001	conditions for mild to
					moderate MDD
Danielsson	2013	Systematic	14	SMD = -0.06, 95% CI: -0.36 to	Comparable to
et al.		review		0.23	pharmacotherapy for
					mild to severe MDD
Nyström et	2015	Systematic	12	Not reported	Effective as
al.		review			monotherapy for
					mild to severe MDD
Stanton	2013	Systematic	5 trials,	Mean frequency $= 3.8$	Examined program
and		review	n=?	sessions/wk; mean duration $= 9.3$	variables only
Reaburn				wks (4-12)	
Carneiro et	2015	RCT	26	1.04, 95% CI: -26.48 to -1.45, p	Exercise as
al.				= 0.031	augmentation superior
					to TAU for women
					with mild to moderate
					MDD or dysthymia

Supplemental eTable 5.4. Evidence for Yoga.

Authors	Year	Туре	n	Effect Size	Key Findings
Cramer et al.	2013	Meta- analysis	12 trials, n=619	SMD = -0.69, 95% CI: -0.99, -0.39; <i>p</i> < 0.001	Effective as augmentation, compared to TAU for mild to severe MDD

Supplemental eTable 5.5. Evidence for acupuncture.

Authors	Year	Туре	n	Effect Size	Key Findings
Chan et al.	2015	Meta-	13	SMD = -2.52, 95% CI: 4.12 to	More effective in augmentation than
		analysis	trials,	0.92, <i>p</i> < 0.01	medication alone for moderate to
			n=1,046		severe MDD
Smith et al.	2010	Systematic	30	Inconsistent findings	No consistent beneficial effect
		review			compared with waitlist or sham
					controls for mild to severe MDD
Zhang et al.	2010	Meta-	20	WMD = 0.31, 95% CI: -0.94-	Acupuncture monotherapy as
		analysis	trials,	1.56, p = 0.63; n = 16	effective as medication alone, but not
			n=1,998		superior to sham for mild to severe
					MDD
					Insufficient evidence for
					augmentation in mild to severe MDD
Wu et al.	2012	Systematic	21	Not reported	Beneficial as monotherapy and more
		review			effective in augmentation than
					medication alone, for mild to severe
					depression

MacPherson et al.	2013	RCT	755	1. $p = 0.41$, 95% CI: -1.77 to 0.25 2. $d = -0.39$, 95% CI: -0.58 to -0.19 3. Reduction in mean depression scores = -1.55, 95% CI: -2.41 to -0.70	For moderate to severe MDD, 1. Similar efficacy to counseling 2. Superior as augmentation to medication alone 3. Monotherapy and augmentation benefits sustained long-term
Quah-Smith et al.	2013	RCT	47	<i>p</i> < 0.001	Monotherapy superior to placebo for moderate to severe MDD, but only on objective measures of depression

Supplemental eTable 5.6. Evidence for St. John's wort.

Authors	Year	Туре	n	Effect Size	Key Findings
Carpenter	2011	Systematic	17 triala	$M \operatorname{ES} = 0.64$	Superior to placebo for mild to
		review	n=3,938		moderate MDD
Rahimi et	2009	Systematic	13	WMD = 0.32, 95% CI:	Comparable to antidepressants for
al.		review		-1.28-0.64, p = 0.52	mild to severe MDD
Mannel et	2010	RCT	200	1. $d = 0.33$	For mild to moderate MDD,
al.				2. $p = 0.02; d = 0.61$	1. Monotherapy superior to placebo
					2. Particularly effective for
					moderate atypical depression
Sarris et	2012	RCT	124	p = 0.61	No difference between SJW,
al.					sertraline, and placebo for mild
					MDD or subthreshold depression

Supplemental eTable 5.7. Evidence for Omega-3 Fatty Acids.

Authors	Year	Туре	n	Effect Size	Key Findings
Appleton et al.	2015	Meta- analysis	25 trials, n=1,438	SMD = -0.32, 95% CI: -0.12, -0.52	Small-to-modest effect as adjunctive compared to placebo for severe MDD
Bloch and Hannestad	2012	Meta- analysis	13 trials, n=731	SMD = 0.11, 95% CI: -0.04, 0.26	No significant effect for monotherapy or augmentation in mild to moderate MDD
Grosso et al.	2014	Meta- analysis	11 trials, n=418	SD = 0.47, 95% CI: 0.29, 0.66	Superior to placebo as monotherapy or augmentation for mild to severe <i>MDD</i>
Sublette et al.	2011	Meta- analysis	15 trials, n=916	SMD for EPA ≥ 60% = 0.558, 95% CI: 0.277, 0.838, <i>p</i> = 0.001	EPA-dominant formulations superior to DHA-based formulations (as monotherapy or augmentation) for mild to severe MDD
Rocha Araujo et al.	2010	Systematic review	19	Not reported	Mixed evidence for benefit in mild to severe MDD
Sarris et al.	2009	Systematic review	NR	Not reported	Superior to placebo as augmentation for mild to severe MDD

Sarris et al.	2010	Systematic	4	Not reported	Superior to placebo as
		review			augmentation for moderate to
					severe MDD

Supplemental eTable 5.8. Evidence for SAM-e.

Authors	Year	Туре	n	Effect Size	Key Findings
Carpenter	2011	Systematic	9	Mean effect size $= 1.0$	Monotherapy superior to placebo for
		review		(range 0.33-1.60)	mild to moderate MDD
De Berardis et	2015	Systematic	48	Not reported	Monotherapy superior to
al.		review			antidepressants for mild MDD
					Effective as augmentation in moderate
					to severe MDD
Sarris et al.	2010	Systematic	NR	Not reported	Effective as augmentation in mild to
		review			severe MDD
Sarris et al.	2009	Narrative review	NR	Not reported	Effective as augmentation in moderate
					to severe MDD
Sarris et al.	2015	RCT (post-hoc	189	p = 0.034; d = 0.95	More effective than placebo in males,
		analysis)			but not in females, for moderate to
					severe MDD

Supplemental eTable 5.9. Evidence for Tryptophan.

Authors	Year	Туре	n	Effect Size	Key Findings
Sarris et al.	2010	Systematic review	9	Not reported	Mixed evidence for augmentation in mild to
					severe MDD
Sarris et al.	2009	Narrative review	9	Not reported	Insufficient evidence for monotherapy in
				_	mild to severe MDD
Jangid et al.	2013	RCT	70	Not reported	Similar efficacy to fluoxetine in moderate to
					severe MDD

Supplemental eTable 5.10. Evidence for Other Natural Health Products.

Authors	Year	Туре	n	Effect Size	Key Findi	ngs			
Folate preparations									
Almeida et al.	2015	Meta- analysis	11 trials, n=2,204	1 long-term study: odd (OR) = 0.33, 95% CI: (s ratio 0.12, 0.94	Long-term use may reduce risk of relapse No effect for short-term augmentation in moderate MDD			
Sarris et al.	2010	Systematic review	2	Not reported		Effective as augmentation in moderate MDD			
Fava and Mischoulon	2009	Narrative review	10	Not reported		Support for monotherapy or augmentation in moderate to severe MDD			
Papakostas et al.	2012	Narrative review	11	Not reported		Support for augmentation with several folate forms, particularly L- methylfolate, in moderate to severe MDD			

Ginsberg et al.	2011	Retrospecti ve analysis	242	p = 0.01	L-methylfolate augmentation superior to antidepressant monotherapy in moderate MDD				
Inositol									
Mukai et al.	2014	Meta- analysis	9 trials, n=242	Not significant	No benefit as monotherapy or augmentation in moderate to severe MDD and premenstrual dysphoric disorder				
Iovieno et al.	2011	Systematic review	6	Not reported	No benefit as monotherapy or augmentation in moderate to severe MDD				
Sarris et al.	2010	Systematic review	3	Not reported	Mixed evidence for monotherapy of augmentation in moderate to severe MDD				
Sarris et al.	2009	Narrative review	4	Not reported	No benefit as monotherapy or augmentation in moderate to severe MDD				
Acetyl-L-carn	itine	•							
Wang et al.	2014	Narrative review	8	Not reported	Monotherapy superior to placebo and comparable to fluoxetine and amisulpride for mild to severe MDD and dysthymia				
Crocus sativus									
Hausenblas et al.	2013	Meta- analysis	5 trials, n=177	1. <i>M</i> ES = -0.15, 95% CI: -0.52-0.22, <i>p</i> = 0.42; n=2 2. <i>M</i> ES = 1.62, 95% CI: 1.10- 2.14, <i>p</i> < 0.001; n=3	For mild to moderate MDD, 1. Effective as monotherapy 2. Similar efficacy to antidepressants				
Dwyer	2011	Systematic review	6	Not reported	Effective as monotherapy for mild to moderate MDD				
Hausenblas et al.	2015	Systematic review	6	Not reported	Effective as monotherapy for mild to moderate MDD				
Lopresti and Drummond	2014	Systematic review	6	Not reported	Effective as monotherapy for mild to moderate MDD				
Talaei et al.	2015	RCT	40	<i>p</i> < 0.0001	Superior as augmentation to SSRIs vs. SSRIs alone for mild to moderate MDD				
Lavandula									
Nikfarjam et al.	2013	RCT	80	<i>p</i> < 0.01	Lavandula combined with citalopram more effective than citalopram alone for moderate to severe MDD				
Rhodiola rosea									
Mao et al.	2015	RCT	57	1. <i>p</i> = 0.79 2. OR = 1.39 (0.38-5.04)	For mild to moderate MDD, 1. No difference between R. rosea, sertraline, and placebo 2. R. rosea superior to placebo in global improvement				