

Obstetrics & Gynecology Science

Saeed Baradwan, et al. Antioxidants & gynecologic-related pain

Supplementary Table 1. The details of the search strategy

Group	Descriptor	Number of studies reached
Outcome	"Dysmenorrhea" OR "Dysparanua" OR "Chronic pelvic pain"	
Population	Endometriosis OR Endometrioses OR Endometrioma OR Endometriomas	
Intervention	Antioxidants OR "Vitamin A" OR "Carotenoids" OR "Beta Carotene" OR "Lycopene" OR "Beta-Cryptoxanthin" OR "Zeaxanthins" OR "Lutein" OR "Retinoid" OR "Vitamin-B-12" OR "Vitamin B6" OR "Vitamin E" OR "Tocopherols" OR "Vitamin C" OR "Ascorbic Acid" OR "Selenium" OR "Manganese" OR "Zinc" OR "Copper" OR "folic acid" OR "glutathione" OR "L-arginine" OR "ubiquinol" OR "coenzyme Q10" OR "L-carnitine" OR "N-acetyl cysteine" OR "fish oils" OR "omega-3" OR "Linolenic Acid" OR "Docosahexaenoic Acid" OR "Eicosapentanoic Acid" OR "inositol" OR "melatonin" OR "Vitamin D" OR "Ergocalciferols" OR "Calcitriol" OR "Probiotics" OR "Prebiotics" OR "Synbiotic" OR "Saccharomyces" OR "Lactobacillus" OR "Bifidobacterium" OR "Flavonoids" OR "Isoflavones" OR "Curcumin" OR "Quercetin" OR "Resveratrol"	
Design	Randomized controlled trial OR controlled clinical trial OR randomized controlled trials OR random allocation OR double blind method OR single blind method OR clinical trial OR clinical trials OR placebos OR placebo OR random	
PubMed		
#1	((("endometriosis"[MeSH Terms] OR "endometriosis"[All Fields] OR "endometriomas"[All Fields]) OR ("endometriosis"[MeSH Terms] OR "endometriosis"[All Fields] OR "endometrioma"[All Fields])) OR ("endometriosis"[MeSH Terms] OR "endometriosis"[All Fields] OR "endometrioses"[All Fields])) OR ("endometriosis"[MeSH Terms] OR "endometriosis"[All Fields])	30,132
#2	"dysmenorrhea"[MeSH Terms] OR "dysmenorrhea"[All Fields] OR "dysmenorrheas"[All Fields] OR "dysmenorrhoea"[All Fields] OR ("dyspareunia"[MeSH Terms] OR "dyspareunia"[All Fields]) OR ((("chronic"[All Fields] OR "chronical"[All Fields] OR "chronically"[All Fields] OR "chronicities"[All Fields] OR "chronicity"[All Fields] OR "chronicization"[All Fields] OR "chronics"[All Fields]) AND ("pelvic pain"[MeSH Terms] OR ("pelvic"[All Fields] AND "pain"[All Fields]) OR "pelvic pain"[All Fields]))	17,527
#3	"antioxidant s"[All Fields] OR "antioxidants"[Pharmacological Action] OR "antioxidants"[MeSH Terms] OR "antioxidants"[All Fields] OR "antioxidant"[All Fields] OR "antioxidating"[All Fields] OR "antioxidation"[All Fields] OR "antioxidative"[All Fields] OR "antioxidatively"[All Fields] OR "antioxidatives"[All Fields] OR "antioxidizing"[All Fields] OR ("vitamin a"[MeSH Terms] OR "vitamin a"[All Fields]) OR ("carotenoids"[MeSH Terms] OR "carotenoids"[All Fields] OR "carotenoid"[All Fields]) OR ("beta carotene"[MeSH Terms] OR ("beta"[All Fields] AND "carotene"[All Fields]) OR "beta carotene"[All Fields]) OR ("lycopen"[All Fields] OR "lycopene"[MeSH Terms] OR "lycopene"[All Fields] OR "lycopenes"[All Fields]) OR ("beta cryptoxanthin"[MeSH Terms] OR "beta cryptoxanthin"[All Fields] OR ("beta"[All Fields] AND "cryptoxanthin"[All Fields]) OR "beta cryptoxanthin"[All Fields]) OR ("zeaxanthine"[All Fields] OR "zeaxanthins"[MeSH Terms] OR "zeaxanthins"[All Fields] OR "zeaxanthin"[All Fields]) OR ("lutein"[MeSH Terms] OR "lutein"[All Fields] OR "lutein s"[All Fields] OR "luteins"[All Fields]) OR ("retinoidal"[All Fields] OR "retinoids"[MeSH Terms] OR "retinoids"[All Fields] OR "retinoid"[All Fields]) OR ("vitamin b 12"[MeSH Terms] OR "vitamin b 12"[All Fields]) OR ("vitamin b 6"[MeSH Terms] OR "vitamin b 6"[All Fields] OR ("vitamin"[All Fields] AND "b6"[All Fields]) OR "vitamin b6"[All Fields]) OR ("vitamin e"[MeSH Terms] OR "vitamin e"[All Fields]) OR ("tocopherols"[MeSH Terms] OR "tocopherols"[All Fields] OR "tocopherol"[All Fields] OR "tocopheryl"[All Fields]) OR ("ascorbic acid"[MeSH Terms] OR ("ascorbic"[All Fields] AND "acid"[All Fields]) OR "ascorbic acid"[All Fields] OR "vitamin c"[All Fields]) OR ("ascorbic acid"[MeSH Terms] OR ("ascorbic"[All Fields] AND "acid"[All Fields]) OR "ascorbic acid"[All Fields]) OR ("selenium"[MeSH Terms] OR "selenium"[All Fields] OR "selenium s"[All Fields] OR "seleniums"[All Fields]) OR ("manganese"[MeSH Terms] OR "manganese"[All Fields] OR "manganeses"[All Fields]) OR ("zinc"[MeSH Terms] OR "zinc"[All Fields]) OR ("copper"[MeSH Terms]	

Supplementary Table 1. The details of the search strategy (Continued)

Group	Descriptor	Number of studies reached
	<p>OR "copper"[All Fields] OR "coppers"[All Fields] OR "copper s"[All Fields] OR ("folic acid"[MeSH Terms] OR ("folic"[All Fields] AND "acid"[All Fields]) OR "folic acid"[All Fields]) OR ("glutathion"[All Fields] OR "glutathionation"[All Fields] OR "glutathione"[MeSH Terms] OR "glutathione"[All Fields] OR "glutathiones"[All Fields] OR "glutathions"[All Fields]) OR ("arginine"[MeSH Terms] OR "arginine"[All Fields] OR "l arginine"[All Fields]) OR ("ubiquinol"[Supplementary Concept] OR "ubiquinol"[All Fields] OR "ubiquinols"[All Fields]) OR ("coenzyme q10"[Supplementary Concept] OR "coenzyme q10"[All Fields] OR "coenzyme q10"[All Fields] OR "ubiquinone"[MeSH Terms] OR "ubiquinone"[All Fields] OR ("coenzyme"[All Fields] AND "q10"[All Fields])) OR ("carnitine"[MeSH Terms] OR "carnitine"[All Fields] OR "l carnitine"[All Fields]) OR ("acetylcysteine"[MeSH Terms] OR "acetylcysteine"[All Fields] OR "n acetyl cysteine"[All Fields]) OR ("fish oils"[MeSH Terms] OR ("fish"[All Fields] AND "oils"[All Fields]) OR "fish oils"[All Fields]) OR ("fatty acids, omega 3"[MeSH Terms] OR ("fatty"[All Fields] AND "acids"[All Fields] AND "omega 3"[All Fields]) OR "omega-3 fatty acids"[All Fields] OR "omega 3"[All Fields]) OR ("alpha linolenic acid"[MeSH Terms] OR ("alpha linolenic"[All Fields] AND "acid"[All Fields]) OR "alpha linolenic acid"[All Fields] OR ("linolenic"[All Fields] AND "acid"[All Fields]) OR "linolenic acid"[All Fields]) OR ("docosahexaenoic acids"[MeSH Terms] OR ("docosahexaenoic"[All Fields] AND "acids"[All Fields]) OR "docosahexaenoic acids"[All Fields] OR ("docosahexaenoic"[All Fields] AND "acid"[All Fields]) OR "docosahexaenoic acid"[All Fields]) OR ("eicosapentaenoic acid"[MeSH Terms] OR ("eicosapentaenoic"[All Fields] AND "acid"[All Fields]) OR "eicosapentaenoic acid"[All Fields] OR ("eicosapentaenoic"[All Fields] AND "acid"[All Fields]) OR "eicosapentaenoic acid"[All Fields]) OR ("inositol"[MeSH Terms] OR "inositol"[All Fields] OR "inositols"[All Fields]) OR ("melatonin"[MeSH Terms] OR "melatonin"[All Fields] OR "melatonin s"[All Fields] OR "melatonine"[All Fields] OR "melatonins"[All Fields]) OR ("vitamin d"[MeSH Terms] OR "vitamin d"[All Fields] OR "ergocalciferols"[MeSH Terms] OR "ergocalciferols"[All Fields] OR ("ergocalciferol"[MeSH Terms] OR "ergocalciferol"[All Fields] OR "calcitriol"[MeSH Terms] OR "calcitriol"[All Fields] OR "calcitriols"[All Fields]) OR ("probiotic s"[All Fields] OR "probiotal"[All Fields] OR "probiotics"[MeSH Terms] OR "probiotics"[All Fields] OR "probiotic"[All Fields]) OR ("prebiotically"[All Fields] OR "prebiotics"[MeSH Terms] OR "prebiotics"[All Fields] OR "prebiotic"[All Fields]) OR ("symbiote"[All Fields] OR "symbiotes"[All Fields] OR "symbiotic"[All Fields] OR "symbiotically"[All Fields] OR "symbiotics"[All Fields]) OR ("saccharomyces"[MeSH Terms] OR "saccharomyces"[All Fields] OR "saccharomyce"[All Fields]) OR ("lactobacillus"[MeSH Terms] OR "lactobacillus"[All Fields] OR ("bifidobacterium"[MeSH Terms] OR "bifidobacterium"[All Fields]) OR ("flavonoidal"[All Fields] OR "flavonoide"[All Fields] OR "flavonoides"[All Fields] OR "flavonoidic"[All Fields] OR "flavonoids"[MeSH Terms] OR "flavonoids"[All Fields] OR "flavonoid"[All Fields]) OR ("isoflavon"[All Fields] OR "isoflavones"[MeSH Terms] OR "isoflavones"[All Fields] OR "isoflavone"[All Fields] OR "isoflavonic"[All Fields] OR "isoflavons"[All Fields]) OR ("curcumin"[MeSH Terms] OR "curcumin"[All Fields] OR "curcumin s"[All Fields] OR "curcumine"[All Fields] OR "curcumins"[All Fields]) OR ("quercetin"[MeSH Terms] OR "quercetin"[All Fields] OR "quercetin s"[All Fields] OR "quercetine"[All Fields] OR "quercetins"[All Fields]) OR ("resveratrol"[MeSH Terms] OR "resveratrol"[All Fields] OR "resveratrol s"[All Fields] OR "resveratrols"[All Fields])</p>	1,788,263
#4	<p>(((((("Randomized Controlled Trial"[Publication Type] OR "Controlled Clinical Trial"[Publication Type] OR "Randomized Controlled Trials as Topic"[Mesh]) OR "Random Allocation"[Mesh]) OR "Double-Blind Method"[Mesh]) OR "Single-Blind Method"[Mesh]) OR "Clinical Trial"[Publication Type]) OR ("clinical trial"[Publication Type] OR "clinical trials as topic"[MeSH Terms] OR "clinical trials"[All Fields])) OR "Placebos"[Mesh]) OR ("placebos"[MeSH Terms] OR "placebos"[All Fields] OR "placebo"[All Fields])) OR ("random allocation"[MeSH Terms] OR ("random"[All Fields] AND "allocation"[All Fields]) OR "random allocation"[All Fields] OR "random"[All Fields])</p>	1,778,105

Supplementary Table 1. The details of the search strategy (Continued)

Group	Descriptor	Number of studies reached
#5	#1 AND #2 AND #3 AND #4	22
Web of science		
#1	TS=("Endometriosis") OR TS=("Endometrioses") OR TS=("Endometrioma") OR TS=("Endometriomas")	28,104
#2	TS=("Dysmenorrhea") OR TS=("Dysparanua") OR TS=("Chronic pelvic pain")	9,593
#3	TS=("Antioxidants") OR TS=("Vitamin A") OR TS=("Carotenoids") OR TS=("Beta Carotene") OR TS=("Lycopene") OR TS=("Beta-Cryptoxanthin") OR TS=("Zeaxanthins") OR TS=("Lutein") OR TS=("Retinoid") OR TS=("Vitamin-B-12") OR TS=("Vitamin B6") OR TS=("Vitamin E") OR TS=("Tocopherols") OR TS=("Vitamin C") OR TS=("Ascorbic Acid") OR TS=("Selenium") OR TS=("Manganese") OR TS=("Zinc") OR TS=("Copper") OR TS=("folic acid") OR TS=("glutathione") OR TS=("L-arginine") OR TS=("ubiquinol") OR TS=("coenzyme Q10") OR TS=("L-carnitine") OR TS=("N-acetyl cysteine") OR TS=("fish oils") OR TS=("omega-3") OR TS=("Linolenic Acid") OR TS=("Docosahexaenoic Acid") OR TS=("Eicosapentanoic Acid") OR TS=("inositol") OR TS=("melatonin") OR TS=("Vitamin D") OR TS=("Ergocalciferols") OR TS=("Calcitriol") OR TS=("Probiotics") OR TS=("Prebiotics") OR TS=("Synbiotic") OR TS=("Saccharomyces") OR TS=("Lactobacillus") OR TS=("Bifidobacterium") OR TS=("Flavonoids") OR TS=("Isoflavones") OR TS=("Curcumin") OR TS=("Quercetin") OR TS=("Resveratrol")	2,015,059
#4	TS=(Randomized controlled trial) OR TS=(controlled clinical trial) OR TS=(randomized controlled trials) OR TS=(random allocation) OR TS=(double blind method) OR TS=(single blind method) OR TS=(clinical trial) OR TS=(clinical trials) OR TS=(placebos) OR TS=(placebo) OR TS=(random)	1,904,772
#5	#1 AND #2 AND #3 AND #4	25
Scopus		
#1	(TITLE-ABS-KEY (endometriosis) OR TITLE-ABS-KEY (endometrioses) OR TITLE-ABS-KEY (endometrioma) OR TITLE-ABS-KEY (endometriomas))	40,301
#2	(TITLE-ABS-KEY (dysmenorrhea) OR (TITLE-ABS-KEY (chronic AND pelvic AND pain)) OR (TITLE-ABS-KEY (dyspareunia)))	29,429
#3	(TITLE-ABS-KEY (linolenic AND acid)) OR (TITLE-ABS-KEY (docosahexaenoic AND acid)) OR (TITLE-ABS-KEY (eicosapentanoic AND acid)) OR (TITLE-ABS-KEY (inositol)) OR (TITLE-ABS-KEY (melatonin)) OR (TITLE-ABS-KEY (vitamin AND d)) OR (TITLE-ABS-KEY (ergocalciferols)) OR (TITLE-ABS-KEY (calcitriol)) OR (TITLE-ABS-KEY (probiotics)) OR (TITLE-ABS-KEY (prebiotics)) OR (TITLE-ABS-KEY (synbiotic)) OR (TITLE-ABS-KEY (saccharomyces)) OR (TITLE-ABS-KEY (lactobacillus)) OR (TITLE-ABS-KEY (bifidobacterium)) OR (TITLE-ABS-KEY (flavonoids)) OR (TITLE-ABS-KEY (isoflavones)) OR (TITLE-ABS-KEY (curcumin)) OR (TITLE-ABS-KEY (quercetin)) OR (TITLE-ABS-KEY (resveratrol)) OR ((TITLE-ABS-KEY (antioxidants)) OR (TITLE-ABS-KEY (vitamin AND a)) OR (TITLE-ABS-KEY (carotenoids)) OR (TITLE-ABS-KEY (beta AND carotene)) OR (TITLE-ABS-KEY (lycopene)) OR (TITLE-ABS-KEY (beta-cryptoxanthin)) OR (TITLE-ABS-KEY (zeaxanthins)) OR (TITLE-ABS-KEY (lutein)) OR (TITLE-ABS-KEY (retinoid)) OR (TITLE-ABS-KEY (vitamin-b-12)) OR (TITLE-ABS-KEY (vitamin AND b-12)) OR (TITLE-ABS-KEY (vitamin AND b6)) OR (TITLE-ABS-KEY (vitamin AND e)) OR (TITLE-ABS-KEY (tocopherols)) OR (TITLE-ABS-KEY (vitamin AND c)) OR (TITLE-ABS-KEY (ascorbic AND acid)) OR (TITLE-ABS-KEY (selenium)) OR (TITLE-ABS-KEY (manganese)) OR (TITLE-ABS-KEY (zinc)) OR (TITLE-ABS-KEY (copper)) OR (TITLE-ABS-KEY (folic AND acid)) OR (TITLE-ABS-KEY (glutathione)) OR (TITLE-ABS-KEY (l-arginine)) OR (TITLE-ABS-KEY (ubiquinol)) OR (TITLE-ABS-KEY (coenzyme AND q10)) OR (TITLE-ABS-KEY (l-carnitine)) OR (TITLE-ABS-KEY (n-acetyl AND cysteine)) OR (TITLE-ABS-KEY (fish AND oils)) OR (TITLE-ABS-KEY (omega-3))))	3,191,859

Supplementary Table 1. The details of the search strategy (Continued)

Group	Descriptor	Number of studies reached
#4	(TITLE-ABS-KEY (randomized AND controlled AND trial) OR TITLE-ABS-KEY (controlled AND clinical AND trial) OR TITLE-ABS-KEY (randomized AND controlled AND trials) OR TITLE-ABS-KEY (random AND allocation) OR TITLE-ABS-KEY (double AND blind AND method) OR TITLE-ABS-KEY (single AND blind AND method) OR TITLE-ABS-KEY (clinical AND trial) OR TITLE-ABS-KEY (clinical AND trials) OR TITLE-ABS-KEY (placebos) OR TITLE-ABS-KEY (placebo) OR TITLE-ABS-KEY (random))	3,326,842
#5	#1 AND #2 AND #3 AND #4	87