

Supplementary Material

Article Title: Omega-3 Polyunsaturated Fatty Acids for Core Symptoms of Attention-Deficit/Hyperactivity Disorder: A Meta-Analysis of Randomized Controlled Trials

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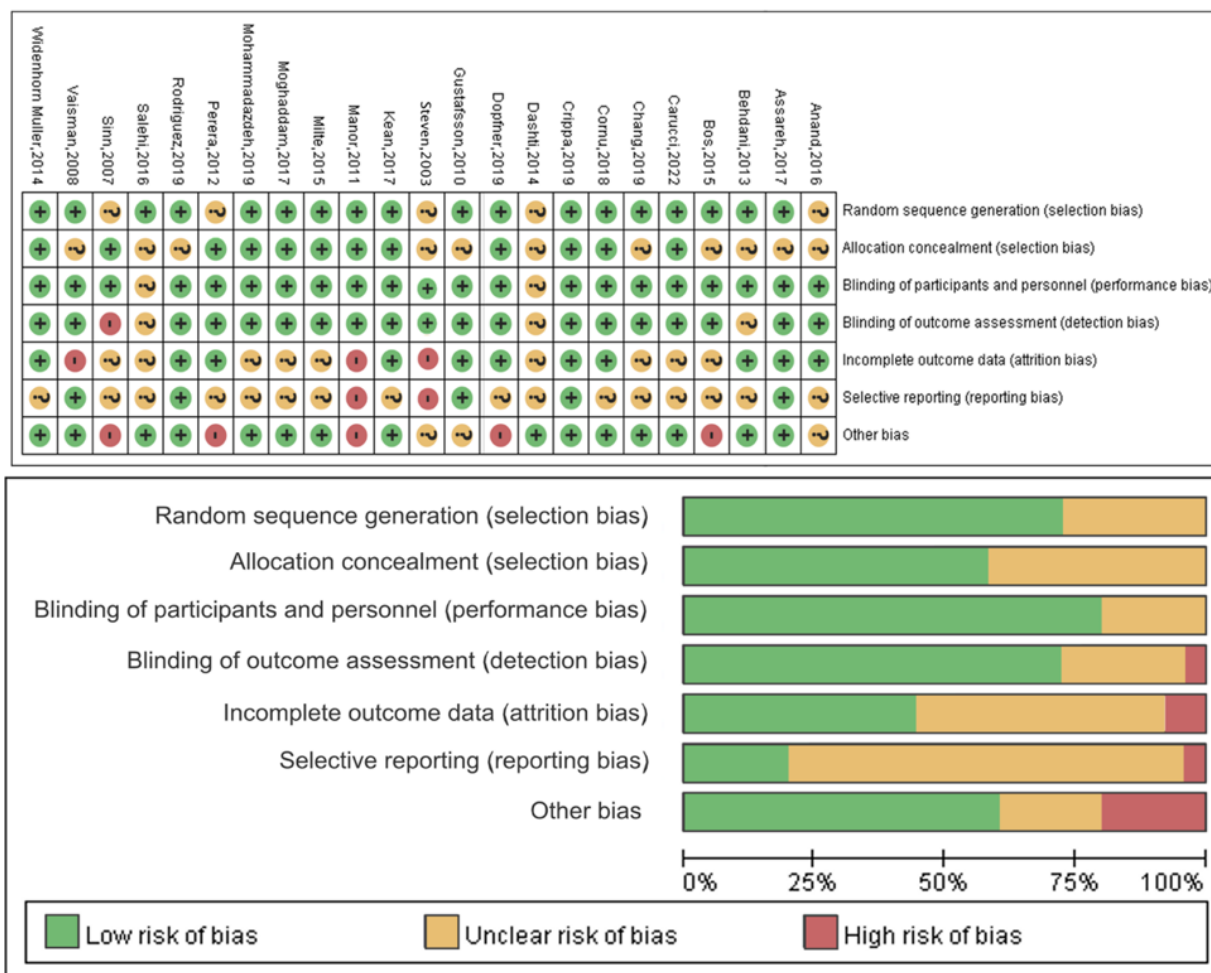
Supplementary Table 1. Search Strategy **Database:****PubMed**

No	Query	Results
#1	"fatty acids, omega 3"[MeSH Terms] OR "fatty acids, unsaturated"[MeSH Terms]	239, 043
#2	"fatty acids, unsaturated"[MeSH Terms] OR ("fatty"[All Fields] AND "acids"[All Fields] AND "unsaturated"[All Fields]) OR "unsaturated fatty acids"[All Fields] OR "pufas"[All Fields] OR "pufa s"[All Fields] OR "Polyunsaturated fatty acid"[All Fields] OR "omega-6"[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 "Docosahexaenoic acid"[All Fields] OR "Eicosapentaenoic acid"[All Fields] OR ("eur policy anal"[Journal] OR "epa"[All Fields]) OR "DHA"[All Fields]	286,550
#3	"Attention Deficit Disorder with Hyperactivity"[All Fields] OR ("Attention Deficit Disorder with Hyperactivity"[MeSH Terms] OR ("attention"[All Fields] AND "deficit"[All Fields] AND "disorder"[All Fields] AND "hyperactivity"[All Fields]) OR "Attention Deficit Disorder with Hyperactivity"[All Fields] OR "adhd"[All Fields])	46, 514
#4	("fatty acids, unsaturated"[MeSH Terms] OR ("fatty"[All Fields] AND "acids"[All Fields] AND "unsaturated"[All Fields]) OR "unsaturated fatty acids"[All Fields] OR "pufas"[All Fields] OR "pufa s"[All Fields] OR "Polyunsaturated fatty acid"[All Fields] OR "omega-6"[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 "Docosahexaenoic acid"[All Fields] OR "Eicosapentaenoic acid"[All Fields] OR ("eur policy anal"[Journal] OR "epa"[All Fields]) OR "DHA"[All Fields] OR ("fatty acids, omega 3"[MeSH Terms] OR "fatty acids, unsaturated"[MeSH Terms])) AND ("Attention Deficit Disorder with Hyperactivity"[All Fields] OR ("Attention Deficit Disorder with Hyperactivity"[MeSH Terms] OR ("attention"[All Fields] AND "deficit"[All Fields] AND "disorder"[All Fields] AND "hyperactivity"[All Fields]) OR "Attention Deficit Disorder with Hyperactivity"[All Fields] OR "adhd"[All Fields]))	362

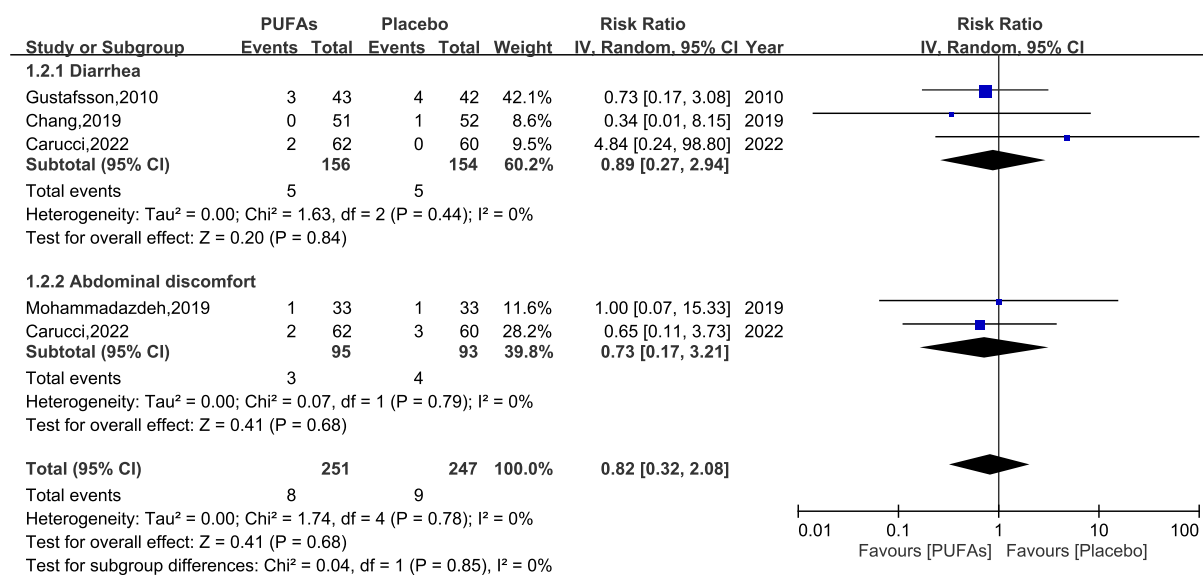
Database: Embase

No	Query	Results
#1	'attention deficit hyperactivity disorder'/exp OR 'adhd' OR 'attention deficit' OR 'attention deficit and disruptive behavior disorders' OR 'attention deficit and disruptive behaviour disorders' OR 'attention deficit disorder' OR 'attention deficit disorder with hyperactivity' OR 'attention deficit hyperactivity disorder'	81, 024
#2	'omega 3 fatty acid'/exp OR 'bilantin omega' OR 'conchol'	98, 675

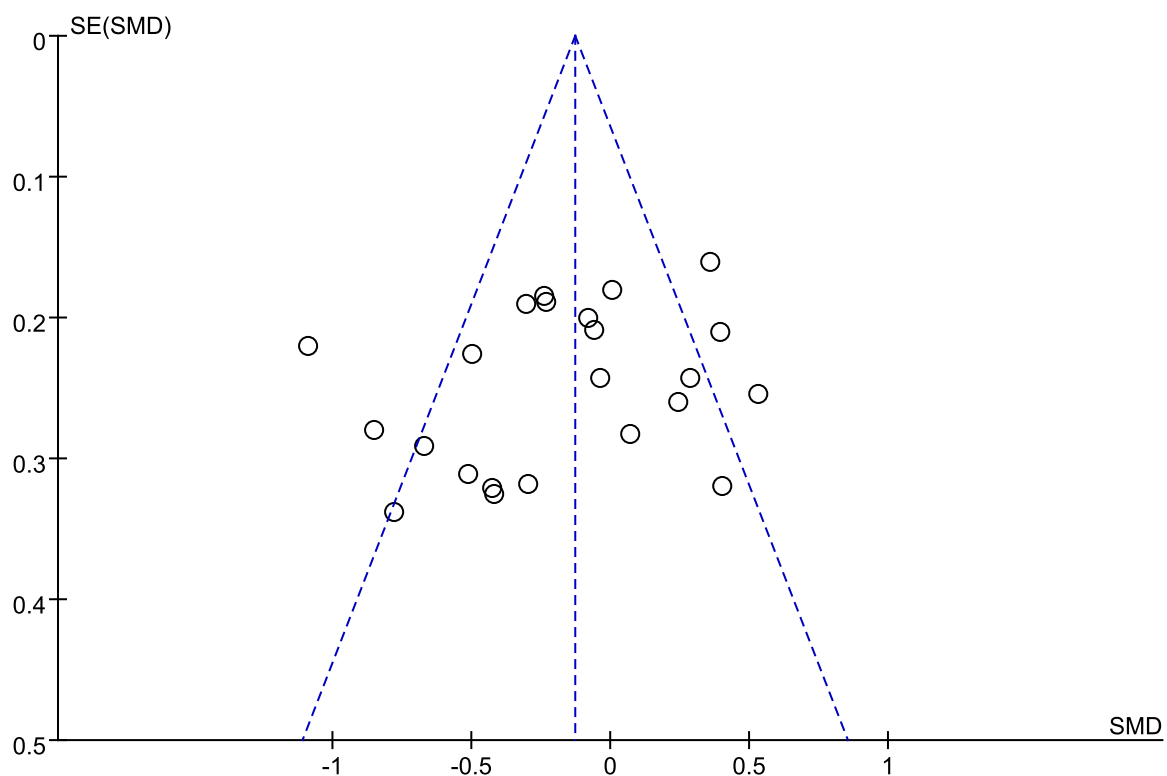
	36' OR 'eicosae' OR 'eicosapen' OR 'epaisdin' OR 'epanova' OR 'fatty acids, omega 3' OR 'fatty acids, omega-3' OR 'n 3 fatty acid' OR 'n 3 polyunsaturated fatty acid' OR 'omega 3' OR 'omega 3 carboxylic acid' OR 'omega 3 carboxylic acids' OR 'omega 3 fatty acid' OR 'omega 3 feingold' OR 'omega 3 plus' OR 'omega 3 polyunsaturated fatty acid' OR 'omega forte' OR 'omega-3-carboxylic acids' OR 'omega3 polyunsaturated fatty acid' OR 'sakana' OR 'sanhelios omega 3' OR 'docosahexaenoic acid'/exp OR 'dhasco' OR 'docosahexaenoate' OR 'docosahexaenoic acid' OR 'docosahexaenoic acids' OR 'docosahexenoic acid' OR 'fish oil'/exp OR 'ameu' OR 'efamed' OR 'epax' OR 'epax 5000' OR 'feniko' OR 'fish oil' OR 'fish oils' OR 'himega' OR 'k 85' OR 'k 85 fish oil preparation' OR 'lachs 550' OR 'lipitac' OR 'maxepa' OR 'olemar' OR 'omegaven' OR 'optimepa' OR 'pikaso' OR 'promega' OR 'super epa' OR 'superepa' OR 'tuna oil' OR 'polyunsaturated fatty acid'/exp OR 'fatty acid polyunsaturation' OR 'fatty acid, polyunsaturated' OR 'poly unsaturated fatty acid' OR 'polyunsaturated fat' OR 'polyunsaturated fatty acid'	
#3	('attention deficit hyperactivity disorder'/exp OR 'adhd' OR 'attention deficit' OR 'attention deficit and disruptive behavior disorders' OR 'attention deficit and disruptive behaviour disorders' OR 'attention deficit disorder' OR 'attention deficit disorder with hyperactivity' OR 'attention deficit hyperactivity disorder') AND ('omega 3 fatty acid'/exp OR 'bilantin omega' OR 'conchol 36' OR 'eicosa e' OR 'eicosapen' OR 'epaisdin' OR 'epanova' OR 'fatty acids, omega 3' OR 'fatty acids, omega-3' OR 'n 3 fatty acid' OR 'n 3 polyunsaturated fatty acid' OR 'omega 3' OR 'omega 3 carboxylic acid' OR 'omega 3 carboxylic acids' OR 'omega 3 fatty acid' OR 'omega 3 feingold' OR 'omega 3 plus' OR 'omega 3 polyunsaturated fatty acid' OR 'omega forte' OR 'omega-3-carboxylic acids' OR 'omega3 polyunsaturated fatty acid' OR 'sakana' OR 'sanhelios omega 3' OR 'docosahexaenoic acid'/exp OR 'dhasco' OR 'docosahexaenoate' OR 'docosahexaenoic acid' OR 'docosahexaenoic acids' OR 'docosahexenoic acid' OR 'fish oil'/exp OR 'ameu' OR 'efamed' OR 'epax' OR 'epax 5000' OR 'feniko' OR 'fish oil' OR 'fish oils' OR 'himega' OR 'k 85' OR 'k 85 fish oil preparation' OR 'lachs 550' OR 'lipitac' OR 'maxepa' OR 'olemar' OR 'omegaven' OR 'optimepa' OR 'pikaso' OR 'promega' OR 'super epa' OR 'superepa' OR 'tuna oil' OR 'polyunsaturated fatty acid'/exp OR 'fatty acid polyunsaturation' OR 'fatty acid, polyunsaturated' OR 'poly unsaturated fatty acid' OR 'polyunsaturated fat' OR 'polyunsaturated fatty acid')	758



Supplementary Figure 1. Methodological quality assessment of the included studies (Cochrane risk-of-bias tool 1.0).



Supplementary Figure 2. Forest plots demonstrate the risk of adverse effect (delete total here because one patient may have diarrhea and abdominal discomfort at the same time)



Supplementary Figure 3. The funnel plot shows the visual check for publication bias on the risk of incidence of delirium.

Certainty assessment							Summary of findings				
Participants (studies) Follow-up	Risk of bias	Inconsistency	Indirectness	Imprecision	Publication bias	Overall certainty of evidence	Study event rates (%)		Relative effect (95% CI)	Anticipated absolute effects	
							With [comparison]	With [intervention]		Risk with [comparison]	Risk difference with [intervention]
Parent-rated ADHD core symptoms											
1789 (22 RCTs)	serious	serious	not serious	not serious	none	⊕⊕○○ Low	836	953	-	-	SMD 0.16 SD lower (0.34 lower to 0.01 higher)

CI: confidence interval; SMD: standardised mean difference

Supplementary Figure 4. GRADE assessment