

Best Evidence Summaries of Topics in Mental Healthcare

BEST in MH *clinical question-answering service*

Question

“In adults (particularly with a diagnosis of an eating disorder or anxiety disorder), what is the association between exposure to copper, and mental illness?”

Clarification of question using *PRO* structure

Patients: Adults
Risk Factor: Copper
Outcome: Mental illness

Clinical and research implications

No relevant systematic reviews, randomised controlled trials, or cohort/case control studies were found to answer this question.

What does the evidence say?

Number of included studies/reviews (number of participants)

N/A

Main Findings

N/A

Authors Conclusions

N/A

Reliability of conclusions/Strength of evidence

N/A

What do guidelines say?

Neither National Institute for Health and Care Excellence (NICE) nor Scottish Intercollegiate Guidelines Network (SIGN) guidelines comment upon the association between copper/copper toxicity and mental health.

Date question received: 13/11/2014

Date searches conducted: 09/12/2014

Date answer completed: 11/12/2014

Search Details

Source	Search Strategy	Number of hits	Relevant evidence identified
<i>SRs and Guidelines</i>			
NICE	copper mental health	8	0
DARE	(copper* OR metal*) IN DARE 340 Delete 2 MeSH DESCRIPTOR Heavy Metal Poisoning, Nervous System EXPLODE ALL TREES 0 Delete 3 MeSH DESCRIPTOR Metals EXPLODE ALL TREES 578 Delete 4 MeSH DESCRIPTOR Poisoning EXPLODE ALL TREES 135 Delete 5 MeSH DESCRIPTOR Metals, Heavy EXPLODE ALL TREES 241 Delete 6 #1 OR #2 OR #3 OR #4 OR #5 987 Delete 7 (Depress* OR bipolar OR manic OR mania OR anxi* OR psycho* OR schiz*) IN DARE 5577 Delete 8 (Mental adj3 (health OR illness* OR condition*)) IN DARE 869 Delete 9 (psychiatr*) IN DARE 1421 Delete 10 MeSH DESCRIPTOR Adjustment Disorders EXPLODE ALL TREES 2 Delete 11 MeSH DESCRIPTOR Bipolar Disorder EXPLODE ALL TREES 169 Delete 12 MeSH DESCRIPTOR Depression EXPLODE ALL TREES 539 Delete 13 MeSH DESCRIPTOR Depressive Disorder EXPLODE ALL TREES 969 Delete 14 MeSH DESCRIPTOR Anxiety EXPLODE ALL TREES 253 Delete 15 MeSH DESCRIPTOR Anxiety Disorders EXPLODE ALL TREES 451 Delete 16 MeSH DESCRIPTOR Phobic Disorders EXPLODE ALL TREES 41 Delete 17 MeSH DESCRIPTOR Stress Disorders, Post-Traumatic EXPLODE ALL TREES 123 Delete 18 MeSH DESCRIPTOR Psychotic Disorders EXPLODE ALL TREES 150 Delete 19 MeSH DESCRIPTOR Schizophrenia EXPLODE ALL TREES 507 Delete 20 #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15 OR #16 OR #17 OR #18 OR #19 6935 Delete 21 #6 AND #20	73	0

Primary studies			
CENTRAL	#1 MeSH descriptor: [Copper] explode all trees 387 #2 copper 1450 #3 #1 or #2 1450 #4 MeSH descriptor: [Eating Disorders] explode all trees 830 #5 MeSH descriptor: [Anxiety Disorders] explode all trees 4964 #6 OCD 787 #7 "obsessive compulsive*" 1677 #8 #4 or #5 or #6 or #7 6874 #9 #3 and #8 3 Central only 2	2	0
PsycINFO	1. PsycINFO; COPPER/; 374 results. 2. PsycINFO; copper.ti,ab; 972 results. 3. PsycINFO; 1 OR 2; 1000 results. 4. PsycINFO; exp EATING DISORDERS/; 23764 results. 5. PsycINFO; exp ANXIETY DISORDERS/; 63318 results. 6. PsycINFO; OCD.ti,ab; 7323 results. 7. PsycINFO; "obsessive compulsive*".ti,ab; 14853 results. 8. PsycINFO; 4 OR 5 OR 6 OR 7; 90735 results. 9. PsycINFO; 3 AND 8; 10 results.	10	0
Embase	19. EMBASE; COPPER/; 81081 results. 20. EMBASE; copper.ti,ab; 77751 results. 21. EMBASE; 19 OR 20; 112725 results. 22. EMBASE; exp EATING DISORDERS/; 36225 results. 23. EMBASE; exp ANXIETY DISORDERS/; 151794 results. 24. EMBASE; OCD.ti,ab; 8378 results. 25. EMBASE; "obsessive compulsive*".ti,ab; 15566 results. 26. EMBASE; 22 OR 23 OR 24 OR 25; 185790 results. 27. EMBASE; 21 AND 26; 125 results	125	0
Medline	10. MEDLINE; COPPER/; 55254 results.	56	0

	11. MEDLINE; copper.ti,ab; 72604 results. 12. MEDLINE; 10 OR 11; 91782 results. 13. MEDLINE; exp EATING DISORDERS/; 23506 results. 14. MEDLINE; exp ANXIETY DISORDERS/; 71738 results. 15. MEDLINE; OCD.ti,ab; 6406 results. 16. MEDLINE; "obsessive compulsive*".ti,ab; 12282 results. 17. MEDLINE; 13 OR 14 OR 15 OR 16; 98694 results. 18. MEDLINE; 12 AND 17; 56 results		
Summary	NA	NA	

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