

Best Evidence Summaries of Topics in Mental Healthcare

BEST in MH clinical question-answering service

Question

"For patients with eating disorders, how effective are psychoeducation groups, compared with any other intervention, for improving patient outcomes?"

Clarification of question using PICO structure

Patients: Patients with eating disorders Intervention: Psychoeducation groups

Comparator: Any

Outcome: Any patient outcomes



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Clinical and research implications

Two small, poor quality trials provided evidence for this question. There was some evidence that a computer-based health education package increased both knowledge and positive attitudes in patients with anorexia, bulimia or both; and that adding CBT to group psycho-education could reduce binging and purging episodes in patients with bulimia. However, neither trial directly compared group psycho-education with an appropriate comparator. They were also both small (54 and 58 patients) with some limitations in their reporting therefore further research using well-designed RCTs is warranted. One trial had an initial non-randomised component which found that bulimic patients who were not in remission from binging and purging after the group psychoeducation were significantly more depressed and symptomatic and recommended that further research is needed into treatment options for these patients.

What does the evidence say?

Number of included studies/reviews (number of participants)

Two randomised controlled trials were included. One was in a mixed population with anorexia, bulimia or both (n=54) which compared a computer-based health education package with a placebo non-directive computer package. The other trial was in bulimic patients only (n=58) and compared the effects of adding CBT to group psycho-education with no further intervention (psycho-education alone).

Main Findings

The trial in the mixed anorexic and bulimic population found that those patients receiving the computerised health education package had a statistically significant increase in both knowledge and positive attitudes compared with the control group after the intervention (although the duration of the intervention and the timing of the assessments were not reported).

The trial of bulimic patients found that those patients receiving psycho-education with CBT reported statistically significantly fewer binging episodes and purging episodes at post-treatment (16 weeks) and a later follow-up (32 weeks), compared with those receiving no further treatment after psychoeducation. Significantly more patients were in complete remission (no binging or purging symptoms) at post-treatment with psycho-education with CBT (43.2% compared with 10.5%). There was no statistically significant difference in eating disorder symptoms between the groups.

Authors Conclusions

The mixed population trial concluded that the computerised health education package (DIET) improved both knowledge and attitude in the sample of patients with eating disorders and was also acceptable, easy to use and useful for the patients. As behavioural changes cannot be assumed to follow changes in attitude further research is needed to assess if computerised health education is more than just a possible adjunctive therapy.

The trial of bulimic patients concluded that their results provided limited support for offering individual CBT to subjects once they have completed an initial trial of group psycho-education. A clinical implication is how non-remitters should be treated (those still binging and purging) as this

study showed that they were significantly more depressed and symptomatic after psycho-education and treatment options for these patients require further research.

Reliability of conclusions/Strength of evidence

Both of these trials were small and considered to be at a high risk of bias as certain aspects were unclear, especially details of the methods of randomisation and allocation concealment. They also did not provide much information about the included patients so it is difficult to assess the generalisability of their results to clinical practice. Although both trials evaluated some form of psycho-education only one was of a group intervention, the other used a computer-based package which provided the intervention on an individual basis. The group trial evaluated the addition of CBT to group psycho-education and both groups received the same psycho-education programme so the main comparison was between adding CBT to psycho-education and stopping psycho-education. Therefore, there was a lack of evidence to directly answer this question.

What do guidelines say?

Neither National Institute for Health and Care Excellence (NICE) nor Scottish Intercollegiate Guidelines Network (SIGN) guidelines comment upon the effectiveness of pure psycho-education groups for the treatment of eating disorders.

Date question received: 03/12/2014
Date searches conducted: 17/12/2014
Date answer completed: 09/01/2015

References

Andrewes, D. G., Mulder, C., O'connor, P., McLennan, J., Say, S., Derham, H., & Weigall, S. (1996). Computerised psychoeducation for patients with eating disorders. *Australian & New Zealand Journal of Psychiatry*, *30*(4), 492-497.

Davis, R., McVey, G., Heinmaa, M., Rockert, W., & Kennedy, S. (1999). Sequencing of cognitive-behavioral treatments for bulimia nervosa. *International Journal of Eating Disorders*, 25(4), 361-374.

Results

RCTs

Author	Inclusion criteria	Number of	Summary of results	Risk of bias
(year)		participants		
Andrewes	Participants: Patients with DSM-III-R	N = 54	27 patients were randomised in each group	High
et al.	anorexia nervosa or bulimia nervosa,	(Intervention =	of which 14 had anorexia nervosa, 9 had	
(1996)	recruited from specialised clinics.	27;	bulimia nervosa and 4 had both anorexia	In general there was a lack of
	Intervention: Computer-based health	Comparator =	and bulimia. The mean age was 22 years. It	information about the trial
	education package (DIET). This contained	27)	appears that all were female although this	methods, participants and
	information about dangers and myths of		was not reported.	results.
	certain dieting methods, and information			
	about the underlying mechanisms of		The DIET group showed a significantly	There was no information
	eating disorders. This was used twice, with		greater increase in knowledge and a	about the methods of
	a week-long interval in between.		greater change in positive attitude	randomisation and allocation
	Comparator: Placebo computer-based		compared with the control group. For	concealment. A placebo
	non-directive counselling programme		attitudes the DIET group had a larger mean	computer package was used
	(CARL). This was used twice, with a week-		increase in EDAQ score from pre- to post-	so it appears (although not
	long interval in between.		intervention of 17.9 compared to 0.9 for	explicitly stated) that
	Outcomes: Eating disorders knowledge		the control group. For knowledge the DIET	patients and physicians were
	(Eating Disorders Knowledge		group also had a larger increase in EDKG	blinded. There was no
	Questionnaire; EDKQ), Eating disorders		score of 14.3 compared to 2.7 for the	information about the
	attitudes (Eating Disorders Attitude		control group.	blinding of outcome
	Questionnaire; EDAQ and also on a 10 cm			assessments.
	visual analogue scale). Outcomes were			
	measured before and after the			All patients appear to have
	intervention but the actual times were not			been included in the results
	reported.			but the not all outcomes

				were fully reported.
Davis et	Participants: Patients with DSM-III-R	N = 58	The randomised trial was the second part	High
al. (1999)	bulimia nervosa. Inclusions: minimum 6-	(PE + CBT = 39;	of the research study. Originally 71	
	month duration of illness; 85-125% of	PE alone = 19)	patients all received group PE for 6 weeks.	Some aspects of the trial
	matched population mean weight.		They were then reassessed and	methods such as the
	Exclusions: ongoing treatment; immediate		randomised to PE + CBT or no further	methods of randomisation
	suicidal risk; psychosis; acute medical		treatment (PE alone). Each session also	and allocation concealment
	instability.		included other clinic patients who were not	were not reported. Baseline
	Intervention: Psycho-education (PE)		involved in the study (5-8 study patients	patient characteristics were
	followed by individual CBT. Six 90-minute		and 6-16 clinic patients).	not reported for each
	sessions, providing information about the			treatment group so it was
	recovery process, self-care, and advice for		Patients were aged between 18 and 41	not possible to judge the
	specific cognitive and behavioural change		(mean 27.1) years, all were female and	comparability of the groups.
	strategies given for 16 weeks.		71% had been referred to an eating	
	Comparator: Psycho-education followed		disorder outpatient clinic at a hospital. The	Given the nature of the
	by no further treatment (six 90-min		mean weight at baseline was 132.2 lbs, the	interventions blinding of
	sessions for 16 weeks) using the same		mean duration of bulimic symptoms was	patients and physicians was
	methods as the intervention group.		7.6 years and 34% had previously had	not possible. Outcomes were
	Outcomes: Eating disorder symptoms		anorexia nervosa.	assessed by one of two
	(Eating Disorders Examination Interview;			independent assessment
	EDE); depression (Beck Depression		Two patients dropped out of CBT leaving	clinicians not involved in
	Inventory; BDI); distress symptoms (Brief		37 in the PE+ CBT group. Patients receiving	patient care so outcome
	Symptom Inventory; BSI); social		PE+CBT reported significantly fewer	assessment is likely to have
	functioning (Social Adjustment Scale; SAS);		binging episodes at post-treatment (p <	been blind to treatment
	self-esteem (Rosenberg Self-Esteem Scale;		0.03) and follow-up (p < 0.02) compared to	group.
	RSS). Measured after the 16 week		those receiving PE alone. They also	
	treatment period (post-treatment) and		reported fewer purging episodes at post-	Only 2 participants were
	after a further 16 weeks (follow-up).		treatment (p < 0.002) and follow-up (p <	excluded from the analysis

0.012). There was no statistically significant	and all outcomes appear to
difference between groups in eating	have been reported.
disorder symptoms (EDE) at either	
assessment.	
For the complete remission of binging and	
purging symptoms significantly more	
PE+CBT patients (43.2%) were in remission	
at post-treatment compared to PE alone	
patients (10.5%, p < 0.02).	

Risk of Bias:

RCTs

Study	RISK OF BIAS						
	Random allocation	Allocation concealment	Blinding of participants and personnel	Blinding of outcome assessment	Incomplete outcome data	Selective Reporting	
Andrewes et al. (1996)	?	?	©	?	©	8	
Davis et al. (1999)	3	3	8	©	©	©	





? Unclear Risk

Search Details

Source	Search Strategy	Number of hits	Relevant evidence identified
SRs and Guidelines NICE eating psychoeducation 10 10 DARE 1 MeSH DESCRIPTOR Food EXPLODE ALL TREES 1184 Delete 2 MeSH DESCRIPTOR Eating Disorders EXPLODE ALL TREES 84 Delete 3 MeSH DESCRIPTOR Binge-Eating Disorder EXPLODE ALL TREES 5 Delete 4 MeSH DESCRIPTOR Bulimia EXPLODE ALL TREES 18 Delete 5 MeSH DESCRIPTOR Anorexia Nervosa EXPLODE ALL TREES 34 Delete 6 (Eating or food* or Anorexia* or Bulimia* or EDNOS) IN DARE 1064 Delete 7 #1 OR #2 OR #3 OR #4 OR #5 OR #6 2076 Delete 8 MeSH DESCRIPTOR Cognitive Therapy EXPLODE ALL TREES 733 Delete 9 MeSH DESCRIPTOR Psychological Techniques EXPLODE ALL TREES 76 Delete 10 MeSH DESCRIPTOR Psychotherapy EXPLODE ALL TREES 75 Delete 11 MeSH DESCRIPTOR Psychotherapy, Group EXPLODE ALL TREES 260 Delete 12 MeSH DESCRIPTOR Psychotherapy, Brief EXPLODE ALL TREES 60 Delete 13 ((psycholog* adj2 therap*) OR CBT OR (cognit* adj2 behavio*) OR psychoeducat*) IN DARE 1467 Delete 14 ((psycholog* adj2 therap*) OR CBT OR (cognit* adj2 behavio*) OR psychoeducat* OR psychotherap*) IN DARE 1806 Delete 15 #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 2793 Delete 16 #7 AND #15 138 Delete Primary studies CENTRAL #7 MeSH descriptor: [Eating Disorders] explode all trees 830 MeSH descriptor: [Patient Education as Topic] explode all trees 6619			
NICE	eating psychoeducation	10	0
DARE	1 MeSH DESCRIPTOR Food EXPLODE ALL TREES 1184 Delete	138	0
	2 MeSH DESCRIPTOR Eating Disorders EXPLODE ALL TREES 84 Delete		
	3 MeSH DESCRIPTOR Binge-Eating Disorder EXPLODE ALL TREES 5 Delete		
	4 MeSH DESCRIPTOR Bulimia EXPLODE ALL TREES 18 Delete		
	5 MeSH DESCRIPTOR Anorexia Nervosa EXPLODE ALL TREES 34 Delete		
	6 (Eating or food* or Anorexia* or Bulimia* or EDNOS) IN DARE 1064 Delete		
	7 #1 OR #2 OR #3 OR #4 OR #5 OR #6 2076 Delete		
	8 MeSH DESCRIPTOR Cognitive Therapy EXPLODE ALL TREES 733 Delete		
	9 MeSH DESCRIPTOR Psychological Techniques EXPLODE ALL TREES 76 Delete		
	10 MeSH DESCRIPTOR Psychotherapy EXPLODE ALL TREES 1957 Delete		
	11 MeSH DESCRIPTOR Psychotherapy, Group EXPLODE ALL TREES 206 Delete		
	12 MeSH DESCRIPTOR Psychotherapy, Brief EXPLODE ALL TREES 60 Delete		
	15 #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 2793 Delete		
	16 #7 AND #15 138 Delete		
Primary s	tudies	•	
CENTRAL	#7 MeSH descriptor: [Eating Disorders] explode all trees 830	14	2
	#9 "psychoeducation group*" or psychoeducation 679		

#10 #8 or #9 7174		
#11 #7 and #10 20		
Central only 14		
PsycINFO 12. PsycINFO; exp EATING DISORDER/; 23778 results.	47	0
13. PsycINFO; EATING BEHAVIOR/ OR EATING DISORDERS/; 18227 results.		
14. PsycINFO; 12 OR 13; 29659 results.		
15. PsycINFO; PSYCHOEDUCATION/; 3337 results.		
16. PsycINFO; psycho-education.ti,ab; 405 results.		
17. PsycINFO; 15 OR 16; 3618 results.		
18. PsycINFO; "psychoeducation group*".ti,ab; 114 results.		
19. PsycINFO; group*.ti,ab; 677190 results.		
20. PsycINFO; 17 AND 19; 1811 results.		
21. PsycINFO; 18 OR 20; 1838 results.		
22. PsycINFO; 14 AND 21; 67 results.		
23. PsycINFO; CLINICAL TRIALS/; 8160 results.		
24. PsycINFO; random*.ti,ab; 136122 results.		
25. PsycINFO; groups.ti,ab; 379477 results.		
26. PsycINFO; (double adj3 blind).ti,ab; 18321 results.		
27. PsycINFO; (single adj3 blind).ti,ab; 1470 results.		
28. PsycINFO; EXPERIMENTAL DESIGN/; 9404 results.		
29. PsycINFO; controlled.ti,ab; 84318 results.		
30. PsycINFO; (clinical adj3 study).ti,ab; 8240 results.		
31. PsycINFO; trial.ti,ab; 71572 results.		
32. PsycINFO; "treatment outcome clinical trial".md; 28410 results.		
33. PsycINFO; 23 OR 24 OR 25 OR 26 OR 27 OR 28 OR 29 OR 30 OR 31 OR 32; 588787 re	esults.	
34. PsycINFO; 22 AND 33; 47 results.		
Embase 1. EMBASE; exp EATING DISORDER/; 36289 results.	21	0
2. EMBASE; EATING BEHAVIOR/ OR EATING DISORDERS/; 69022 results.		
3. EMBASE; 1 OR 2; 87301 results.		

	4. EMBASE; PSYCHOEDUCATION/; 3827 results.		
	5. EMBASE; psycho-education.ti,ab; 618 results.		
	6. EMBASE; 4 OR 5; 4283 results.		
	7. EMBASE; "psychoeducation group*".ti,ab; 93 results.		
	8. EMBASE; group*.ti,ab; 3223446 results.		
	9. EMBASE; 6 AND 8; 1627 results.		
	10. EMBASE; 7 OR 9; 1661 results.		
	11. EMBASE; 3 AND 10; 70 results.		
	12. EMBASE; random*.ti,ab; 918801 results.		
	13. EMBASE; factorial*.ti,ab; 23711 results.		
	14. EMBASE; (crossover* OR cross-over*).ti,ab; 70744 results.		
	15. EMBASE; placebo*.ti,ab; 204997 results.		
	16. EMBASE; (doubl* ADJ blind*).ti,ab; 145273 results.		
	17. EMBASE; (singl* ADJ blind*).ti,ab; 14960 results.		
	18. EMBASE; assign*.ti,ab; 246399 results.		
	19. EMBASE; allocat*.ti,ab; 87112 results.		
	20. EMBASE; volunteer*.ti,ab; 180278 results.		
	21. EMBASE; CROSSOVER PROCEDURE/; 40796 results.		
	22. EMBASE; DOUBLE BLIND PROCEDURE/; 116476 results.		
	23. EMBASE; RANDOMIZED CONTROLLED TRIAL/; 354795 results.		
	24. EMBASE; SINGLE BLIND PROCEDURE/; 19151 results.		
	25. EMBASE; 12 OR 13 OR 14 OR 15 OR 16 OR 17 OR 18 OR 19 OR 20 OR 21 OR 22 OR 23 OR 24; 1458410		
	results.		
	26. EMBASE; 11 AND 25; 21 results.		
Medline	12. MEDLINE; exp EATING DISORDER/; 23506 results.	49	0
	13. MEDLINE; EATING BEHAVIOR/ OR EATING DISORDERS/; 51122 results.		
	14. MEDLINE; 12 OR 13; 62652 results.		
	15. MEDLINE; PSYCHOEDUCATION/; 0 results.		
	16. MEDLINE; psycho-education.ti,ab; 320 results.		
	17. MEDLINE; 15 OR 16; 320 results.		

Summary	39. MEDLINE; 21 OR 38; 14806 results. 40. MEDLINE; 14 AND 35 AND 39; 49 results. NA	NA	
	38. MEDLINE; 19 AND 37; 14654 results.		
	37. MEDLINE; 23 OR 24; 79064 results.		
	36. MEDLINE; 26 AND 35; 77 results.		
	35. MEDLINE; 27 OR 28 OR 29 OR 30 OR 31 OR 32 OR 33 OR 34; 3548445 results.		
	34. MEDLINE; groups.ab; 1448661 results.		
	33. MEDLINE; trial.ab; 336214 results.		
	32. MEDLINE; randomly.ab; 230597 results.		
	31. MEDLINE; "drug therapy".fs; 1789870 results.		
	29. MEDLINE; randomized.ab; 322270 results. 30. MEDLINE; placebo.ab; 164894 results.		
	28. MEDLINE; "controlled clinical trial".pt; 90822 results.		
	27. MEDLINE; "randomized controlled trial".pt; 401556 results.		
	26. MEDLINE; 14 AND 25; 277 results.		
	25. MEDLINE; 18 OR 20 OR 23 OR 24; 79216 results.		
	24. MEDLINE; "patient education".ti,ab; 12226 results.		
	23. MEDLINE; PATIENT EDUCATION AS TOPIC/; 73236 results.		
	22. MEDLINE; 14 AND 21; 5 results.		
	21. MEDLINE; 18 OR 20; 235 results.		
	20. MEDLINE; 17 AND 19; 167 results.		
	19. MEDLINE; group*.ti,ab; 2659527 results.		
	18. MEDLINE; "psychoeducation group*".ti,ab; 68 results.		

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