

Question 13D. What is the evidence that pharmacotherapy interventions effect a change in weight?

Reference	Design	Overweight defined as:	Adjuvant therapy	Run-in Phase	Intervention	Length (F/U)	Drop out Side effects	Drop-out Total #(%)	Baseline Weight (n) mean (95%CI) kg	Mean weight change (n) mean (95% CI)	Weight Regain	Side effects	Comments
BRL 26830A													
Connacher 696	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 42.8 Mean weight: 100.5 Female/Total: 32/40	>120% IBW	Diet: 3.35 MJ/d Exercise: none Behavioral: none	none	1. Placebo 2. BRL 26830A (beta adrenoreceptor agonist) start at 200 then 400 mg	18	0	0	(20) 100 (20) 101	(16) -10 (-13.1,-6.9) (16) -15.4 (-18.9, -11.9) <u>2vs1</u> -5.4 (0.8, 9.9)		The only side effects of treatment with BRL 26830A regularly observed were shaky hands and tremulousness. Twelve patients experienced these symptoms at some time during 18 weeks. No other side effects were identified.	
Cimetidine													
Rasmussen 699	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 37 Mean weight: 95.7 Female/Total: 51/60	BMI: 27-39	Diet: Low-calorie, high fiber Exercise: none Behavioral: none	none	1. Placebo 2. Cimetidine 200 mg TID * Cross-over	8	NS NS	50/60 completed both periods	(30) 95.9 (30) 95.5	(29) -5.9 (26) -5.7 * <u>2vs1</u> 0.20 (-1.09, 1.48)		Nausea/abdominal pain more frequent with cimetidine (no statistic done).	
Dexfenfluramine													
Guy-Grand 507	Randomized: Yes Blinded Patients: Yes Providers: Yes Outcome: Yes *multicenter' INDEX trial Mean age: 40.8 Mean weight: 97.3 Female/Total: 662/822	>120% IBW	Diet: caloric restriction not less than 1448 kj/d Exercise: none Behavioral: none	none	1. Placebo 2. Dexfenfluramine 15 mg BID	52	38 41	189 (45%) 150 (37%)	(418) 98.0 (404) 96.6	(227) -7.5 (256) -9.8 <u>2vs1</u> -2.30 (-3.28, -1.32)		Tiredness, diarrhea, dry mouth, polyuria and drowsiness affected significantly more patients on dF than on placebo.	
Andersen 506	Randomized: Yes Blinded Patients: Yes Providers: Yes Outcome: Yes Subgroup of INDEX trial Mean age: 29.5 Mean weight: 99.5 Female/Total: 37/42	>120% IBW	Diet: 1250 kcal Exercise: none Behavioral: none	none	1. Placebo 2. Dexfenfluramine 15 mg BID	52	0 0	8 (38%) 4 (19%)	subset of index trial	idem	Rate of regain 0.7 kg/mo and 0.9 kg/mo for dF and placebo. Regain of wgt SS for both groups between 6-12 mo.	No significant difference between 2 groups.	Randomization; unequal weight distribution between groups.

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Swinburn 70050	Randomized: Unclear Blinded Patient: Yes Providers: Yes Outcome: Yes Mean age: 45.7 Mean weight: 97 Female/Total: 57/84	BMI 30-40	Diet: Low fat Exercise: none Behavioral: none	Diet: Yes Compliance: Yes	1. Placebo 2. Dexfenfluramine 15 mg BID	12	ng	13/97	<u>Weight (kg)</u> 1. (42) 98.5 (94.4, 102.5) 2. (42) 96 (91.5, 100.5)	<u>Weight (kg)</u> 1. (42) -0.3 (-0.4, -0.2) 2. (42) -42.2 (-4.3, 4.0) <u>2vs1</u> -3.9 (-6.79, -1.01)	12 weeks post treatment 1. (39) + 0.7 kg 2. (38) + 1.7 kg	Not given	
Mathus-Vliegen 390	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Subgroup of INDEX trial (?) Mean age: 35.9 Mean weight: 110.7 Female/Total: 64/75	>135% IBW	Diet: low-calorie (1000 kcal less) Exercise: none Behavioral: none	None	1. Placebo 2. Dexfenfluramine 15 mg BID	52	0 0	3 (8%) 7 (19%)	(39) 110.3 (36) 111.2	(36) - 8 (36) - 10.7 p=ns	*2 months follow-up off drug wgt regain 2.8 kg and 1.0 kg in dF and placebo		Dutch eating behavior increased in placebo (need to restrain their eating more in order to achieve same weight loss).
Herwig 70037	Randomized: Yes Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 42 Mean weight: Female/Total: 52/60	>120% IBW	Diet: LCD 1500 Exercise: No Behavioral: No	None	1. Placebo 2. Dexfenfluramine 15 mg BID	52	ng	18/60	<u>BMI (upper body obesity)</u> 1. (8) 36.7 (30, 43) 2. (12) 35.1 (31, 39) <u>BMI (lower body obesity)</u> 1. (6) 35.9 (29, 43) 2. (16) 34 (30, 38)	<u>Weight loss (upper body obesity)</u> 1.(8) -4.7 (-7.1, -2.3) 2.(12) -14.2 (-15.6, 12.8) <u>2vs1</u> -9.5 (-11.19, -7.81) <u>Weight loss (lower body obesity)</u> 1.(6) -2.6 (-5, -0.16) 2.(16) -11.1 (-12.7, -9.6) <u>2vs1</u> -8.5 (-10.14, -6.86)		Tiredness, headache, diarrhea, sleep disturbances, dry mouth and polyuria. Reported more often in the dF group.	In the patients with UBO waist circumference was reduced more than hip circumference and the ratio waist to hip circumference declined. In the patients with LBO both circumferences were lowered to same extent so that WHR did not change.
Pfohl 393	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 38.5	>120% IBW	Diet: 1200-1500 Exercise: no Behavioral: no	none	1. Placebo 2. Dexfenfluramine 15 mg BID	52	ng	9 (38%) 5 (21%)	(24) 97 (24) 96	(15) -9.6 (-13.2, -6.0) (19)-10.9 (-14.7, -7.1) <u>2vs1</u> -1.3 (-4.87, 2.27)	(11) -2.1 (11) 1.5	not described	

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	Mean weight: 96.5 Female/Total: 38/48												
Bremer 386	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 49.4 Mean weight: 83.3 Female/Total: 15/26 *dyslipidemic patients	poor outcome to wgt loss programs	Diet: Low-fat diet Exercise: none Behavioral: none	Diet: Yes Education: Yes Wgt loss: No	1. Placebo 2. Dexfenfluramine 15 mg BID	12	0 3	0 3 (25%)	(14) 86.8 (12) 79.3	(14) -2.5 (12) -4.2 <u>2vs1</u> -1.70 (-8.65, 5.25)		40% in Df compared to 0% in placebo. Drowsiness, fatigue, sleepiness, memory loss, faintness, loss of sensation in arms and legs were reasons for withdrawal.	
Finer 746	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 35.7 Mean weight: 107.6 Female/Total: 39/45	BMI >35 (kg/m ²)	Diet: 60-70% of total caloric needs (VLCD +snacks) Exercise: none Behavioral: none	Diet: Yes Compliance: Yes Education: NS Wgt loss: Yes (25%)	1. Placebo 2. Dexfenfluramine 15 mg BID	26	0 0	6 (27%) 7 (30%)	(22) 107.3 (23) 107.9	(16) 2.9 (16) -5.8 <u>2vs1</u> -8.70 (-9.52, -7.87)		Reported to be minor (no more details).	
Manning 414	Randomized: Unclear Blinded Patients: No Providers: No Outcome: No Mean age: 55.6 Mean weight: ng Female/Total: 101/205 * Type II diabetes	BMI 28-45 (kg/m ²)	Diet: ADA diet except control Exercise: No Behavioral: yes group qmox24 then q2mo	None	1. Control 2. Clinic visit 3. Home and clinic visit 4. Behavioral therapy 5. Dexfenfluramine 15 mg BID	12 of dF	NS NS NS NS 15	0/58 13/37 (35%) 7/35 (20%) 17/38 (45%) 7/37 (19%)	N/A	<u>End of tx</u> N/A (37) -1.59 (35) -1.69 (38) -1.20 (37) -3.40	6 mo f/u 1y f/u N/A (58) 1.2 (37) -2.30 (37) -1.21 (35) -1.30 (35) -1.14 (38) -1.21 (38) -1.82 (37) -3.13 (37) -2.75	Cephalgia, drowsiness, insomnia, fatigue and dry mouth.	
Mathus-Vliegen 391	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 36.5 Mean weight: 109 Female/Total: 35/42	>120% IBW	Diet: 1000 kcal less Exercise: none Behavioral: none	none	1. Placebo 2. Dexfenfluramine 15 mg BID	52	0 0	3 (17%) 4 (24%)	(18) 110.57 (17) 107.43	(18) -8.63 (17) -12.84 <u>2vs1</u> -4.21 (-13.21, 4.79)	60 wks (18) 0.82 (17) 3.24		
Breum 745	Randomized: Unclear Blinded Patients: no Providers: no Outcome: no	ng	Diet: .1625 kcal/d Exercise: no Behavioral: no	none	1. Placebo 2. Dexfenfluramine 30 mg qd	56	0	ng	(5?) 105 (5?) 88.6	(5?) -9.3 (5?) -14.6	14 months (5?) 0.8 (5?) 2.9 <u>2vs1</u> p<0.05	not reported	

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	Mean age: 32.8 Mean weight: 96.8 Female/Total: 10/10												
O'Connor 392	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 40.2 Mean weight: 96.4 Female/Total: 31/51	BMI 30-40 (kg/m ²)	Diet: 1200 to 1500 Exercise: none Behavioral: none	Education: Yes Compliance Assessment: No Weight loss: No	1. Placebo 2. Dexfenfluramine 15 mg BID	24	0 0	4 (14%) 3 (10%)	(24) 100 (27) 93.3	(24) -4.9 (-6.8,-3.0) (27) - 9.7 (-12.0,-7.4) <u>2vs1</u> -4.8 (-6.9, 2.73)	12 months (14) -6.2 (-9.0, -3.4) (20) -6.0 (-9.3, -2.7) <u>2vs1</u> 0.2 (-2.79, 3.19)	Diarrhea, ↓appetite, fatigue, headache more common in dF (NS) significantly more nausea, dry mouth, dizziness with dF	
Pedrinola 711	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: ng Mean weight: 87.1 Female/Total: 24/33	not specified	Diet: 1000 kcal/d Exercise: encouraged Behavioral: none	Diet: 1000 kcal/d Wgt loss: No Pill count: No	1. Fluoxetine 20 mg at breakfast and lunch and placebo at night 2. Fluoxetine 20 mg at breakfast and lunch and dexfenfluramine 15 mg at night	32	4 0	7 (35%) 0 (0%)	<u>Weight (kg) at end of run-in phase</u> 1. (13) 87.8 2. (20) 86.7	<u>Weight (kg)</u> 1. (13) 81.4 2. (20) 73 <u>2vs1</u> -7.30 (-13.53, -1.07)	<u>Weight (kg) at 2 months</u> 1. (13) 85 2. (20) 81 <u>2vs1</u> -2.90 (-10.05,4.25) <u>Weight (kg) at 4 months</u> 1. (13) 84 2. (20) 78 <u>2vs1</u> -4.90 (-11.39,1.59) <u>Weight (kg) at 6 months</u> 1. (13) 83 2. (20) 75 <u>2vs1</u> -6.90 (-13.17,-0.63)	Adverse events: Somnolence in the first 2 weeks of treatment was the most common complaint (20% and 28% in group 1 and 2). This side effect disappeared spontaneously after 15 days of continuous medication. Headache was reported in 16% in group 1 and 18% in group 2. Diarrhea was more common (11%) in group 2 affecting mostly male patients. No significant difference occurred between groups for changes in vital signs.	
Ephedrine													
Astrup 697	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 35.5 Mean weight: 94.8 Female/Total: 155/180	120-180% IBW	Diet: 1000 kcal Exercise: none Behavioral: none	none	1. Placebo 2. Caffeine 200 mg TID 3. Ephedrine 20 mg TID 4. Ephedrine 20 mg + Caffeine 200 mg TID	24 (12. 16. 20)	0 2 1 3	10 (22%) 10 (22%) 10 (22%) 10 (22%)	(45) 96.9 (92, 101.7) (45) 94.0 (91, 97) (45) 93.7 (89.7, 97.7) (45) 94.6 (90.5, 98.7)	(35) -13.2 (-15.5,-10.9) (35) -11.5 (-13.6, 9.,4) (35) -16.3, -12.3) (35) -16.6 (-18.9, -14.3) <u>4vs1</u> p<0.02 <u>3vs1</u>		Significantly more patients in the ephedrine/caffeine group than in placebo reported at least one symptom. Withdrawal symptom seemed more frequent in EC (headache, tiredness) and ephedrine.	

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										p>0.2 <u>2vs1</u> p>0.2			
Daly 697	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 35 Mean weight: 96.7 Female/Total: 22/29	ng	Diet: Yes Exercise: no Behavioral: no	none	1. Placebo 2. Ephedrine 150 mg/d + Caffeine 150 mg/d + ASA 330 mg/d	8	ng	2 3	(13) 100.1 (11) 93.3	(13) -0.7 (11) -2.2 <u>2vs1</u> -1.50(-2.66, -0.14)		ECA group: 3/11 complained of transient jitteriness, 2 complained of dry mouth and 2 of constipation. Placebo group 1/13 complained of jitteriness, 2 of dry mouth and one of constipation. There was no difference in frequency of any of these side effects and in both ECA and placebo groups side effects, tended not to persist. Part II Side effects: 3/8 complained of transient dry mouth with ECA while none did with placebo but there was no significant difference in frequency of any side effects.	
Pasquali 747	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 28.7 Mean weight: 83.9 Female/Total: 10/10	NS	Diet: NS Exercise: none Behavioral: none	none	1. Placebo cross-over to ephedrine 50 mg TID 2. Ephedrine cross-over to placebo	8	0 0	0 0	All (10) 83.5	(10) -0.64 (10) -2.41(-2.12, -1.42) * no comparison for parallel		Incidence very rare with few reporting mild agitation, insomnia, palpitation, giddiness, while taking ephedrine.	

Fenfluramine/Phentermine

Craighead 478	Randomized: Unclear Blinded Patients: no Providers: no Outcome: no	ng	Diet: 1000-1200 Exercise: no Behavioral: yes group weekly	none	1. Waiting list control 2. Physician's office medication control	24	ng	0 1 (10%) 7 (17%) 1 (2%)	(10) 93.5 (6) 82.2 (32) 91.6 (25) 95.6	(10) 1.3 (-1.6, 4.2) (6) -6 (-10.4, -1.6) (32) -10.9 (-12.9, -8.9) (25) -14.5 (-16.8,	(32) -9 (-11.7, -6.3) (25) -6.3 (-9.3, -3.2) (23) -4.6 (-7.9, -1.3)	not reported	
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	Mean age: ng Mean weight: 93.8 Female/Total: 120/120				3. Behavior therapy 4. Fenfluramine 120 mg/d start at 120 mg then 120 mg 5. Behavioral + Fenfluramine			3 (9%)	(23) 98.1	-12.2 (23) -15.3 (-17.8, -12.8) <u>4vs3</u> -3.80 (-5.69, -1.51) <u>5vs3</u> -4.40 (-6.57, -2.23) <u>5vs4</u> -0.80 (-3.13, 1.53)			
Wadden 71267	Randomized: Unclear Blinded Patients: no Providers: no Outcome: no Mean age: 47.0 Mean weight: 97.6 Female/Total: 26/26	Not defined	Diet: 1200 kcal Exercise: yes Behavioral: yes LEARN Manual	No	1. Fenfluramine 60mg/d plus phentermine 15mg/d with infrequent but structured physician visits 2. Fenfluramine 60mg/d plus phentermine 15mg/d with frequent group behavior modification	52	None	None	<u>Weight (kg)</u> 1. (13) 98.5 (89, 108) 2. (13) 96.7 (90.4, 103)	<u>Weight loss</u> 1. (13) -13.9 (-19.7, -8) 2. (13) -15.4 (-20, -10.6)	Not given	Most frequent complaints: fatigue, drowsiness, diarrhea, poor concentration	
Weintraub 748	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 35 Mean weight: ng Female/Total: ng	>130-180% IBW	Diet: 900-1800 Exercise: n Behavioral: no	Diet: Yes Pill count: no Education: ng Wgt loss: no	1. Placebo 2. Fenfluramine 20 mg tid 3. Phentermine 30 mg qd 4. Phentermine 15 mg qam + Fenfluramine 30 mg qpm	16	ng	10 (50%) 10 (50%) 8 (40%) 8 (38%)	not given	(20) -4.4 (-6.3, -2.5) (20) -7.5 (-10.0, -5.0) (20) -10 (-12.5, -7.5) (21) -8.4 (-10.7, -6.1) <u>4vs1</u> -4.00 (-6.05, -1.95) <u>4vs3</u> 1.60 (-0.72, 3.92) <u>4vs2</u> -0.90 (1.148, -3.22)		Patients in groups 2 and 3 had statistically significantly more complaints than those receiving placebo not with the combo. Combo group reported significantly fewer cardiovascular and CNS complaints than the phentermine participants (p<0.05). Group 2 and 3 had statistically more cardiovascular and CNS complaints than the placebo group. Again there was no difference	

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Weintraub 593	Randomized: Yes Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 40 Mean weight: 33.4 mg/kg ² Female/Total: 90/121	>130-180% IBW	Diet: 1000-1800 cal/wk Exercise: 900 cal/wk Behavioral: Yes group weekly	Diet: Yes Pill count: NG Education: Yes Wgt loss: no	1. Placebo 2. Fenfluramine extended release 60 mg + Phentermine 15 mg <u>Second Double-blind</u> 1. Placebo 2. Fenfluramine 60 mg, Phentermine 15 mg weeks 156-190	28 28	ng ng	5/54 4/62 overall 1/52	(59) 94 (62) 93.7* *estimate from graph	(54) -4.6 (-6.2, -3.0) (58) -14.3 (-16.1, -12.5) <u>Weeks 0-190</u> (24) -2.1 (-4.6, 0.4) (27) -5.9 (-8.8, -3.0) <u>2vs1</u> p<0.01	After cessation of medication <u>Weight in kg 0-210 wks</u> (48) -1.4 (-3.4, 0.6)	between combo and placebo. Number of patients complaining of dry mouth, palpitations, CNS at week 6: group 1: 10 group 2: 17 group 3: 18 group 4: 14 at week 20 group 1: 2 group 2: 6 group 3: 10 group 4: 6. Dry mouth was the most important and troublesome adverse effect reported. GI complaints were also more common in group 2. Number of moderate and severe adverse effects were greater throughout study period in active therapy vs placebo. Withdrawal symptoms: none of the participants reported signs and symptoms of a withdrawal reaction during cessation.	

Femoxetine/Fluoxetine

Bitsch 750	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes * Multicenter Mean age: 47.9 Mean weight: ng Female/Total: 43/53	>120% IBW	Diet: 1200 kcal/d Exercise: none Behavioral: none	none	1. Placebo 2. Femoxetine 300 mg BID	16	0 3	11 (42%) 9 (33%)	N/A	(26) -6.7 (27) -7.9 <u>2vs1</u> -1.20 (-3.14, 0.74)		Most side effects were reported in 1st 2 wks (24 vs 4 in placebo). Dry mouth was the only difference.	
Goldstein 752	Randomized: Unclear Blinded Patients: Yes	BMI >=25	Diet: caloric restriction to lose	none	1. Placebo 2. Fluoxetine 60 mg	52 (20)	19 41	120 (53%) 131 (57%)	(228) 99.2 (230) 100.3	(107) -1.2 (-2.3, -0.1) (105) -1.7 (-3.4, -0.04)		Fluoxetine group had significantly more side	

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	Providers: Yes Outcome: Yes Mean age: 43 Mean weight: 99.7 Female/Total: 366/458		0.45 kg/w Exercise: none Behavioral: none		qd					<u>2vs1</u> -0.5 (-1.91, 0.91)		effects such as asthma, GI symptoms, nervousness, tremor, amnesia, thirst, sleep disorders.	
O'Kane 408	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 57.1 Mean weight: 98.7 Female/Total: 13/19 * Type II diabetes	BMI >30	Diet: ns Exercise: none Behavioral: none	none	1. Placebo 2. Fluoxetine 60 mg qd	52 (24)	0 2	1 (11%) 2 (29%)	(9) 99.9 (7) 97.2	(9) 1.5 (0.2, 2.8) (7) -4.3 (-6.0, -2.6)		Diabetic symptoms, infection more common in placebo. GI symptoms, falls, and migraines were common with Fluoxetine.	
Darga 730	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 46.9 Mean weight: 102.9 Female/Total: 32/45	ng	Diet: Yes to lose 0.5 kg/wk Exercise: Yes Behavioral: Yes	none	1. Placebo 2. Fluoxetine qd 60 mg	52	0	6 (27%) 9 (64%)	(22) 100 (23) 105.8	(16) -4.6 (14) -8.2 <u>2vs1</u> -3.6	29 weeks (ns) -5.5 (17) -12.3		
Marcus 734	Randomized: Yes Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 39.2 Mean weight: ng Female/Total: 41/45	BMI >30	Diet: low-calorie to lose 1 lb./w Exercise: yes 2 miles 5x Behavioral: yes group q2wx10,q4w	none	1. Placebo 2. Fluoxetine 60 mg qd	52 (28)	3 5	11 (52%) 10 (48%)	N/A	(10) +0.6(-3.0,+4.2) (11)-13.9(-22.4,-5.4)	15/21 program complete gave fu weight at 3-6 mo after study 1.(ns) 0± 2.7 2.(ns) 5.4 ± 4.9	No significant differences between 2 groups for reported SE.	
Connolly 712	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 66 Mean weight: 88.3 Female/Total: 9/15 completers	BMI >29	Diet: 1200-1600 Exercise: no Behavioral: no	none	1. Placebo 2. Fluoxetine start at 60 mg	24	ng	2 (15%) 4 (23%)	(13) 85.1 (11) 92.0	(11) 0 (-0.3, 0.3) (7) -3.9 (-5.3, -2.5)		The reporting of GI side effects was more common in the fluoxetine group and infections, mainly respiratory tract, were more common in placebo.	
Fernandez-Soto	Randomized: Unclear Blinded Patients: Yes	ns	Diet: 1200 kcal/d Exercise: none	none	1. Fluoxetine cross-over to placebo	12	NS NS	5 (22%) 4 (21%)	N/A	(18) -7.31/ (18) -4.92 (15) -8.55/ (15) -4.67		Main side effects were cephalgia, drowsiness,	

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757	Providers: Yes Outcome: Yes Mean age: 39 Mean weight: 35.9 Female/Total: 39/39		Behavioral: none		2. Placebo cross-over to fluoxetine					(cross-over)		insomnia, fatigue, and dryness of mouth (NS).	

Mianserin

Cook 753	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 38 Mean weight: n/a Female/Total: 43/45	BMI >37	Diet: 320 kcal reduced Exercise: no Behavioral: no	none	1. Placebo + VLCD 2. Mianserin 10 mg/d + VLCD	16	ng	ng	not given	(13) -15.5 (8) -15.6 *Given for women only <u>2vs1</u> - 0.10 (-3.99, 3.79)		not reported	
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Orlistat

Drent 407	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 41.8 Mean weight: 83.7 Female/Total: 33/39	>120-150% IBW	Diet: Low fat, 500 kcal reduced Exercise: none Behavioral: none	Diet: Yes Pill count: Yes Education: NS Wgt: Yes (0.5 to 4 kg)	1. Placebo 2. Orlistat 50 mg TID	12	0 1	2 (11%) 3 (15%)		(19) -2.1 (-3.4, -0.8) (20) -4.3 (-5.9, -2.7) <u>2vs1</u> -2.2 (-3.61, 0-.78)		More GI adverse events (abdominal pain to fecal incontinence) in patients with orlistat.	
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Drent 710	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 44 Mean weight: 92 Female/Total: 107/186	BMI: 27.8-35 for men and 27.3-35 for women WHR: >=0.9 for men and >=0.8 for women	Diet: Low-fat with 500 kcal restriction Exercise: none Behavioral: none	Diet: Yes Pill count: Yes Education: Yes Wgt loss to be enrolled: No	1. Placebo 2. Orlistat 30 mg qd 3. Orlistat 60 mg BID 4. Orlistat 90 mg QID	12	NS NS NS NS	6 (13%) 5 (10%) 3 (7%) 5 (11%)	1. (46) 90.0 (86.6, 93.4) 2. (48) 92.1 (88.5, 95.7) 3. (45) 92.6 (88.4, 96.3) 4. (47) 94.1 (90.31, 97.9)	(46) -2.98 (-3.75, -2.21) (48) -3.61 (-4.37, -2.85) (45) -3.69 (-4.48, -2.90) (47) -4.74(-4.9,-4.6) *Intention to treat analysis <u>4vs1</u> -1.76 (-2.30, -1.22) <u>3vs1</u> -0.71 (-1.48, 0.0) <u>2vs1</u> -0.63 (-1.38, 0.12)			
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Phenylpropanolamine

Reference numbers refer to the Reference List in the Clinical Guidelines Report.

Question 13D. What is the evidence that pharmacotherapy interventions effect a change in weight?

Reference	Design	Overweight defined as:	Adjuvant therapy	Run-in Phase	Intervention	Length (F/U)	Drop out Side effects	Drop-out Total #(%)	Baseline Weight (n) mean (95% CI) kg	Mean weight change (n) mean (95% CI)	Weight Regain	Side effects	Comments
Schteingart 512	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 37.8 Mean weight: 79.9 Female/Total: 85/101	115-145% overweight	Diet: 1200 kcal Exercise: none Behavioral: none	Diet: Yes Pill count: Yes Education: NS Wgt loss: No	1. Placebo 2. Phenylpropanolamine 75 mg qd	12	1 1	23 (46%) 15 (29%)	(50) 84.8 (51) 78.8	(28) -1.07 (-1.9, -0.2) (36) -2.59 (-3.3, 1.9) <u>2vs1</u> -1.52 (-3.52, 0.48)	<u>20 weeks</u> (12) -0.39 (-2.4, 1.6) (24) -5.1 (-8.2, -2.0)	No details other than 2 drop-out secondary to nausea.	
Phentermine													
Williams 509	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 67.5 Mean weight: 73.6 completers Female/Total:all	>25% IBW	Diet: 1000 kcal Exercise: No Behavioral: No	Diet: No Pill Count: No Education: No Wgt Loss: No	1. Placebo 2. Phentermine 30 mg	24	1 4	4 (27%) 4 (27%)	not given	<u>Weight in kg 24 weeks</u> 1. (ng) -4.5 2. (11) -6.3 <u>2vs1 p=ns</u>	<u>Weight in kg at 3 months</u> 1. (11) -2.6 (95%CI n/a, n/a) 2. (11) -5.8 (95%CI n/a, n/a) <u>2vs1 p<0.05</u>	Nausea or vomiting occurred in 3 patients taking phentermine; one patient in each group had CNS side effects.	There was some improvement in correlation of weight loss with pain-free range of movement and analgesic count when those with severe radiological change were excluded. The average individual scores plotted against weight loss showed a correlation of 0.45 with statistical significance. The patients with knee disease showed a stronger correlation (r=0.66) with clinical score than did those with hip disease.
Sibutramine													
Bray 510	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 43.5 Mean weight: 96.2 Female/Total: ng	BMI 30-40 kg/m ²	Diet: 1200-1500 kcal Exercise: 3-5 kcal/min Behavioral: written material given	Diet: Yes Pill count: No Education: No Wgt loss: No	1. Placebo 2. Sibutramine 1 mg 3. Sibutramine 5 mg 4. Sibutramine 10 mg 5. Sibutramine 15 mg 6. Sibutramine 20 mg	24	ng ng ng ng ng	overall 15%	<u>Weight (kg), men</u> 1. (ng) 111.95 2. (ng) 98.62 3. (ng) 107.80 4. (ng) 94.20 5. (ng) 109.37 6. (ng) 104.15 7. (ng) 96.05	<u>Weight (kg), men (completers)</u> 1. (ng) 0.24 2. (ng) -6.43 3. (ng) -6.98 4. (ng) -7.3 5. (ng) -7.68 6. (ng) -9.3 7. (ng) -12.29	<u>Weight (kg), lost 5% at 30 weeks</u> 1. (ng) 8% 2. (ng) 25% 3. (ng) 28% 4. (ng) 40% 5. (ng) 48% 6. (ng) 45% 7. (ng) 58%	Adverse events: There was statistically significant difference in the reported number of adverse events with increasing drug doses. The reported adverse events which were possibly drug related	During the 6 week following dc of sibutramine, there was a regain in body weight which was most rapid in those who lost the most weight and least rapid in the placebo

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					7. Sibutramine 30 mg				<u>Weight (kg), women</u> 1. (ng) 92.02 2. (ng) 95.76 3. (ng) 90.91 4. (ng) 87.21 5. (ng) 89.67 6. (ng) 90.90 7. (ng) 91.0 <u>Weight (kg), women (completers)</u> 1. (ng) -0.75 2. (ng) -2.96 3. (ng) -2.87 4. (ng) -6.19 5. (ng) -6.89 6. (ng) -7.3 7. (ng) -8.24 7vs1 p<0.001 6vs1 p<0.001 5vs1 p<0.001 4vs1 p<0.001 <u>Weight (kg), lost 5%</u> 1. (ng) 13% 2. (ng) 33% 3. (ng) 28% 4. (ng) 64% 5. (ng) 52% 6. (ng) 63% 7. (ng) 62% <u>Weight (kg), lost 10%</u> 1. (ng) 0% 2. (ng) 8% 3. (ng) 16% 4. (ng) 16% 5. (ng) 28% 6. (ng) 38% 7. (ng) 35%	7vs1 p<0.001 <u>Weight (kg), women (completers)</u> 1. (ng) -0.75 2. (ng) -2.96 3. (ng) -2.87 4. (ng) -6.19 5. (ng) -6.89 6. (ng) -7.3 7. (ng) -8.24 7vs1 p<0.001 6vs1 p<0.001 5vs1 p<0.001 4vs1 p<0.001 <u>Weight (kg), lost 5%</u> 1. (ng) 13% 2. (ng) 33% 3. (ng) 28% 4. (ng) 64% 5. (ng) 52% 6. (ng) 63% 7. (ng) 62% <u>Weight (kg), lost 10%</u> 1. (ng) 0% 2. (ng) 8% 3. (ng) 16% 4. (ng) 16% 5. (ng) 28% 6. (ng) 38% 7. (ng) 35%	<u>Weight (kg), lost 10% at 30 weeks</u> 1. (ng) 0% 2. (ng) 8% 3. (ng) 12% 4. (ng) 12% 5. (ng) 20% 6. (ng) 21% 7. (ng) 31%	included dry mouth, decreased appetite, constipation and insomnia. These were generally mild. Investigators terminated 14 subjects/173; 11/4 were in group 5 or higher. One subject was terminated early for mild hypertension.	and 1 mg dose groups. There were 23 non-responders across all treatment groups. Of those whose weight remained stable or increased, 6 were in group 1, 4 in group 2, 7 in group 3, 2 in group 4, 1 in group 5, 2 in group 6, 1 in group 7.
Testosterone													
Marin 698	Randomized: Unclear Blinded Patients: No Providers: No Outcome: No Mean age: 50.8 Mean weight: 95.6	BMI >25	Diet: ns Exercise: none Behavioral: none	none	1. Placebo 2. Testosterone Decanoate 80 mg BID	32	0 0	1 (8%) 1 (9%)	(12) 95.8 (11) 95.5	(12) -0.2 (11) -1.4 2vs1 -1.20 (-8.03, 5.63)		Side effects: a statistically significant enlargement of the prostate was found in the testosterone group. PSA unchanged.	

Reference numbers refer to the Reference List in the Clinical Guidelines Report.

Question 13D. What is the evidence that pharmacotherapy interventions effect a change in weight?

Reference	Design	Overweight defined as:	Adjuvant therapy	Run-in Phase	Intervention	Length (F/U)	Drop out Side effects	Drop-out Total #(%)	Baseline Weight (n) mean (95%CI) kg	Mean weight change (n) mean (95% CI)	Weight Regain	Side effects	Comments
	Female/Total: 0/23												

Yohimbine

Sax 755	Randomized: Unclear Blinded Patients: Yes Providers: Yes Outcome: Yes Mean age: 42 Mean weight: n/a Female/Total: 0/47	>120%	Diet: 1800 Exercise: no Behavioral: no	none	1. Placebo 2. Yohimbine start at 16.2 mg then 43.2 mg	24	ng	6 8	not given	(15) -9.4 (18) -8.7 <u>2vs1</u> 0.70 (-16.01, 17.41)		The incidence was low in both groups. Two subjects (one in each group) developed hypertension.	
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