

Data supplement 1

(data supplement to *British Journal of Psychiatry* (2006), 189, 213-220

References of excluded studies as summarised in the Quorum diagram (figure 1)

Retrieved articles

Excluded:

Case reports:

1. Alibhai SM. Discontinuation of benzodiazepines. *CMAJ*. 2004 May 25;170(11):1646.
2. Sim M. Discontinuation of benzodiazepines. *CMAJ*. 2004 May 25;170(11):1645-6.
3. Finkel JC, Elrefai A. The use of dexmedetomidine to facilitate opioid and benzodiazepine detoxification in an infant. *Anesth Analg*. 2004 Jun;98(6):1658-9.
4. Chand PK, Murthy P. Megadose lorazepam dependence. *Addiction*. 2003 Nov;98(11):1635-6.
5. Cheseaux M, Monnat M, Zullino DF. Topiramate in benzodiazepine withdrawal. *Hum Psychopharmacol*. 2003 Jul;18(5):375-7.
6. Rosenberg MH, Deerfield LJ, Baruch EM. Two cases of severe gamma-hydroxybutyrate withdrawal delirium on a psychiatric unit: recommendations for management. *Am J Drug Alcohol Abuse*. 2003 May;29(2):487-96.
7. Gupta R, Gupta N, Avasthi A. Benzodiazepine discontinuation in generalized anxiety disorder. *Am J Psychiatry*. 2002 Feb;159(2):321-2.
8. Mulleady G. Pilot testing of telephone conferencing to help reduce tranquillizer dependence. *Addiction*. 2001 Nov;96(11):1679-80.
9. Crockford D, White WD, Campbell B. Gabapentin use in benzodiazepine dependence and detoxification. *Can J Psychiatry*. 2001 Apr;46(3):287.
10. Dagan Y, Zisapel N, Nof D, Laudon M, Atsmon J. Rapid reversal of tolerance to benzodiazepine hypnotics by treatment with oral melatonin: a case report. *Eur Neuropsychopharmacol*. 1997 May;7(2):157-60.
11. Robertson M, Bell J. Are rapid inpatient benzodiazepine detoxifications unsafe? *Med J Aust*. 1993 Apr 19;158(8):578-9.
12. Pierce WS. Gradual tapering of benzodiazepines is better tolerated. *Nurse Pract*. 1993 Mar;18(3):12, 15.
13. Cocores J. Benzodiazepine withdrawal. *Am J Psychiatry*. 1991 Nov;148(11):1621.
14. Neppe VM, Sindorf J. Carbamazepine for high-dose diazepam withdrawal in opiate users. *J Nerv Ment Dis*. 1991 Apr;179(4):234-5.
15. Ashton CH, Rawlins MD, Tyrer SP. Buspirone in benzodiazepine withdrawal. *Br J Psychiatry*. 1991 Feb;158:283-4.
16. McElroy SL, Keck PE Jr, Lawrence JM. Treatment of panic disorder and benzodiazepine withdrawal with valproate. *J Neuropsychiatry Clin Neurosci*. 1991 Spring;3(2):232-3.
17. Travers R. Buspirone in detoxification. *Br J Psychiatry*. 1991 Jan;158:133-4.
18. McNichol RW, Vogtsberger KN, Zule WA. Phenobarbital as an adjunct for alprazolam withdrawal. *Am J Psychiatry*. 1990 Dec;147(12):1688-9.
19. Cantopher T, Cleave N, Edwards G, Olivieri S. Benzodiazepine withdrawal. *Br J Psychiatry*. 1990 Dec;157:933-4.
20. [No authors listed] Benzodiazepine withdrawal. *Br J Psychiatry*. 1990 Nov;157:777-8. Erratum in: *Br J Psychiatry* 1991 Mar;158:438.
21. Entman ML. Alprazolam withdrawal. *Tex Med*. 1990 Sep;86(9):122.
22. Apelt S, Emrich HM. Sodium valproate in benzodiazepine withdrawal. *Am J Psychiatry*. 1990 Jul;147(7):950-1.
23. Jones RS. Benzodiazepine withdrawal. *Lancet*. 1990 Jan 6;335(8680):61.
24. Ravi NV, Maany I, Burke WM, Dhopes V, Woody GE. Detoxification with phenobarbital of alprazolam-dependent polysubstance abusers. *J Subst Abuse Treat*. 1990;7(1):55-8.
25. Elcock P. Benzodiazepine withdrawal. *Lancet*. 1989 Dec 9;2(8676):1402.
26. Zarr ML. Benzodiazepine therapy and withdrawal in elderly patients. *Am J Psychiatry*. 1989 Sep;146(9):1242-3.
27. Hamilton I. Management of benzodiazepine withdrawal. *J R Coll Gen Pract*. 1989 Jul;39(324):304-5.
28. Burbach RV. Withdrawal from benzodiazepines. *Am J Drug Alcohol Abuse*. 1989;15(2):231.

30. Brenner PM, Wolf B, Grohmann R, Ruther E. Benzodiazepine dependence--aetiological factors, time course, consequences and withdrawal symptomatology: a study of five cases. *Drug Alcohol Depend.* 1988 Dec;22(3):253-61.
31. Craig DF. Withdrawal from benzodiazepines of short half-life. *CMAJ.* 1988 Dec 1;139(11):1036-7.
32. Perry-Whittingham BD. Management of withdrawal syndromes. *CMAJ.* 1988 Nov 1;139(9):825-6.
33. Kellman AM. Benzodiazepine withdrawal. *Am J Med.* 1988 Nov;85(5):755.
34. Patterson WM. Triazolam withdrawal. *J Clin Psychiatry.* 1988 Sep;49(9):369.
35. [No authors listed] Treatment of benzodiazepine dependence. *Lancet.* 1987 Jan 10;1(8524):78-9.
36. Votolato NA, Batcha KJ, Olson SC. Alprazolam withdrawal. *Drug Intell Clin Pharm.* 1987 Sep;21(9):754-5.
37. Jerkovich GS, Preskorn SH. Failure of buspirone to protect against lorazepam withdrawal symptoms. *JAMA.* 1987 Jul 10;258(2):204-5.
38. Lawlor BA. Carbamazepine, alprazolam withdrawal, and panic disorder. *Am J Psychiatry.* 1987 Feb;144(2):265-6.
39. Rickels K. Treatment of benzodiazepine dependence. *Med J Aust.* 1987 Jan 19;146(2):112.
40. Robson M, Crouch G, Hallstrom C. Psychological treatment for benzodiazepine dependence. *J R Coll Gen Pract.* 1986 Nov;36(292):523.
41. Vinogradov S, Reiss AL, Csernansky JG. Clonidine therapy in withdrawal from high-dose alprazolam treatment. *Am J Psychiatry.* 1986 Sep;143(9):1188.
42. Goodman WK, Charney DS, Price LH, Woods SW, Heninger GR. Ineffectiveness of clonidine in the treatment of the benzodiazepine withdrawal syndrome: report of three cases. *Am J Psychiatry.* 1986 Jul;143(7):900-3.
43. Fleming JA, Rungta K, Isomura T, McMillan MJ. Withdrawal regimen for triazolam-dependent patients. *CMAJ.* 1986 Jun 1;134(11):1230-2.
44. Kantor SJ. A difficult alprazolam withdrawal. *J Clin Psychopharmacol.* 1986 Apr;6(2):124-5.
45. Sanchez-Craig M, Kay G, Busto U, Cappell H. Cognitive-behavioural treatment for benzodiazepine dependence. *Lancet.* 1986 Feb 15;1(8477):388.
46. Singh AN, Chemij M, Jewell J. Treatment of triazolam dependence with a tapering withdrawal regimen. *CMAJ.* 1986 Feb 1;134(3):243-5.
47. Klein E, Uhde TW, Post RM. Preliminary evidence for the utility of carbamazepine in alprazolam withdrawal. *Am J Psychiatry.* 1986 Feb;143(2):235-6.
48. Rickels K. Clinical management of benzodiazepine dependence. *Br Med J (Clin Res Ed).* 1985 Dec 7;291(6509):1649.
49. Tyrer P, Murphy S, Oates G, Kingdon D. Psychological treatment for benzodiazepine dependence. *Lancet.* 1985 May 4;1(8436):1042-3. No abstract available.
50. Tyrer P. Clinical management of benzodiazepine dependence. *Br Med J (Clin Res Ed).* 1985 Nov 23;291(6507):1507.
51. Marks J. Clinical management of benzodiazepine dependence. *Br Med J (Clin Res Ed).* 1985 Oct 26;291(6503):1201-2.
52. Keshavan MS, Crammer JL. Clonidine in benzodiazepine withdrawal. *Lancet.* 1985 Jun 8;1(8441):1325-6.
53. Tennant FS Jr. Clinical management of iatrogenic drug dependence. *Psychiatr Med.* 1985;3(4):337-47. Review.
54. Hughes PL, Morse RM. Use of clonidine in a mixed-drug detoxification regimen: possibility of masking of clinical signs of sedative withdrawal. *Mayo Clin Proc.* 1985 Jan;60(1):47-9.
55. Winokur A, Rickels K. Withdrawal responses to abrupt discontinuation of desmethyldiazepam. *Am J Psychiatry.* 1984 Nov;141(11):1427-9.
56. Gauche WG. Propranolol for the treatment of diazepam withdrawal symptoms. *S Afr Med J.* 1984 Dec 8;66(23):870.
57. Coid J. Relief of diazepam-withdrawal syndrome by shoplifting. *Br J Psychiatry.* 1984 Nov;145:552-4.
58. Feldbaum JS. Inadvertent benzodiazepine withdrawal. *Am Fam Physician.* 1984 Oct;30(4):46, 50.
59. Sechi GP, Zoroddu G, Rosati G. Failure of carbamazepine to prevent clonazepam withdrawal status epilepticus. *Ital J Neurol Sci.* 1984 Sep;5(3):285-7.
60. Jones SD. Withdrawal from benzodiazepines. *JAMA.* 1984 Jun 8;251(22):2928.
61. Levy AB. Delirium and seizures due to abrupt alprazolam withdrawal: case report. *J Clin Psychiatry.* 1984 Jan;45(1):38-9.
62. Vahrman J. Benzodiazepine withdrawal. *Lancet.* 1983 Jul 30;2(8344):290.
63. Leung FW, Guze PA. Diazepam withdrawal. *West J Med.* 1983 Jan;138(1):98-101.
64. Hayner GN, Inaba DS. A pharmacological approach to outpatient benzodiazepine detoxification.
65. *J Psychoactive Drugs.* 1983 Jan-Jun;15(1-2):99-104.

66. Abernethy DR, Greenblatt DJ, Shader RI. Treatment of diazepam withdrawal syndrome with propranolol. *Ann Intern Med.* 1981 Mar;94(3):354-5.
67. Barton DF. More on lorazepam withdrawal. *Drug Intell Clin Pharm.* 1981 Feb;15(2):134.
68. Winokur A, Rickels K, Greenblatt DJ, Snyder PJ, Schatz NJ. Withdrawal reaction from long-term, low-dosage administration of diazepam. A double-blind, placebo-controlled case study. *Arch Gen Psychiatry.* 1980 Jan;37(1):101-5.
69. Stewart RB, Salem RB, Springer PK. A case report of lorazepam withdrawal. *Am J Psychiatry.* 1980 Sep;137(9):1113-4.
70. [No authors listed] Benzodiazepine withdrawal. *Lancet.* 1979 Jan 27;1(8109):196.
71. Ayd FJ Jr. Benzodiazepines: dependence and withdrawal. *JAMA.* 1979 Sep 28;242(13):1401-2.
72. Miller F, Nulsen J. Single case study. Diazepam (Valium) detoxification. *J Nerv Ment Dis.* 1979 Oct;167(10):637-8.
73. Tennant FS Jr. Outpatient treatment and outcome of prescription drug abuse. *Arch Intern Med.* 1979 Feb;139(2):154-6.
74. Rifkin A, Klein DF, Quitkin F. Withdrawal from diazepam. *JAMA.* 1977 Jul 25;238(4):306.
75. Hollister LE. Withdrawal from benzodiazepine therapy. *JAMA.* 1977 Apr 4;237(14):1432.

Reviews:

1. Chouinard G. Issues in the clinical use of benzodiazepines: potency, withdrawal, and rebound. *J Clin Psychiatry.* 2004;65 Suppl 5:7-12.
2. Kosten TR, O'Connor PG. Management of drug and alcohol withdrawal. *N Engl J Med.* 2003 May 1;348(18):1786-95.
3. Otto MW, Hong JJ, Safren SA. Benzodiazepine discontinuation difficulties in panic disorder: conceptual model and outcome for cognitive-behavior therapy. *Curr Pharm Des.* 2002;8(1):75-80.
4. Podhorna J. The experimental pharmacotherapy of benzodiazepine withdrawal. *Curr Pharm Des.* 2002;8(1):23-43.
5. Bateson AN. Basic pharmacologic mechanisms involved in benzodiazepine tolerance and withdrawal. *Curr Pharm Des.* 2002;8(1):5-21.
7. Oude Voshaar RC, Gorgels WJ, Mol AJ, Couvee JE, van Balkom AJ, Zitman FG. [Treatment methods for discontinuation of long-term benzodiazepine use] *Ned Tijdschr Geneesk.* 2001 Jul 14;145(28):1347-50. Dutch.
8. Tacke U. [Withdrawal from long term benzodiazepines use] *Duodecim.* 1996;112(1):55-60. Finnish.
9. Spiegel DA. Psychological strategies for discontinuing benzodiazepine treatment. *J Clin Psychopharmacol.* 1999 Dec;19(6 Suppl 2):17S-22S.
10. Rickels K, DeMartinis N, Rynn M, Mandos L. Pharmacologic strategies for discontinuing benzodiazepine treatment. *J Clin Psychopharmacol.* 1999 Dec;19(6 Suppl 2):12S-16S.
11. Prater CD, Miller KE, Zylstra RG. Outpatient detoxification of the addicted or alcoholic patient. *Am Fam Physician.* 1999 Sep 15;60(4):1175-83.
12. Rickels K, Schweizer E. Panic disorder: long-term pharmacotherapy and discontinuation. *J Clin Psychopharmacol.* 1998 Dec;18(6 Suppl 2):12S-18S.
13. Salzman C. Addiction to benzodiazepines. *Psychiatr Q.* 1998 Winter;69(4):251-61.
14. Schweizer E, Rickels K. Benzodiazepine dependence and withdrawal: a review of the syndrome and its clinical management. *Acta Psychiatr Scand Suppl.* 1998;393:95-101.
15. Pages KP, Ries RK. Use of anticonvulsants in benzodiazepine withdrawal. *Am J Addict.* 1998 Summer;7(3):198-204.
16. Miller NS, Gold MS. Management of withdrawal syndromes and relapse prevention in drug and alcohol dependence. *Am Fam Physician.* 1998 Jul;58(1):139-46. Review. Erratum in: *Am Fam Physician* 1998 Sep 15;58(4):866.
17. Salzman C. The benzodiazepine controversy: therapeutic effects versus dependence, withdrawal, and toxicity. *Harv Rev Psychiatry.* 1997 Jan-Feb;4(5):279-82.
19. Norman TR, Ellen SR, Burrows GD. Benzodiazepines in anxiety disorders: managing therapeutics and dependence. *Med J Aust.* 1997 Nov 3;167(9):490-5.
20. Miller NS, Guttman JC. The integration of pharmacological therapy for comorbid psychiatric and addictive disorders. *J Psychoactive Drugs.* 1997 Jul-Sep;29(3):249-54.
22. Puntillo K, Casella V, Reid M. Opioid and benzodiazepine tolerance and dependence: application of theory to critical care practice. *Heart Lung.* 1997 Jul-Aug;26(4):317-24.

23. Barlow DH. Anxiety disorders, comorbid substance abuse, and benzodiazepine
24. discontinuation: implications for treatment. *NIDA Res Monogr.* 1997;172:33-51.
25. Mezciems PE. Withdrawal strategies for outpatients. Alcohol, benzodiazepine, barbiturate,
26. and opiate addictions. *Can Fam Physician.* 1996 Sep;42:1745-52.
27. Michellini S, Cassano GB, Frare F, Perugi G. Long-term use of benzodiazepines: tolerance, dependence and
- clinical problems in anxiety and mood disorders. *Pharmacopsychiatry.* 1996 Jul;29(4):127-34.
28. Yaster M, Kost-Byerly S, Berde C, Billet C. The management of opioid and benzodiazepine dependence in
- infants, children, and adolescents. *Pediatrics.* 1996 Jul;98(1):135-40.
29. Woods JH, Winger G. Current benzodiazepine issues. *Psychopharmacology (Berl).* 1995 Mar;118(2):107-15;
- discussion 118, 120-1.
30. O'Brien CP. Overview: the treatment of drug dependence. *Addiction.* 1994 Nov;89(11):1565-9.
31. Ashton H. The treatment of benzodiazepine dependence. *Addiction.* 1994 Nov;89(11):1535-41.
32. Gabe J. Promoting benzodiazepine withdrawal. *Addiction.* 1994 Nov;89(11):1497-504.
33. Ben-Ephraim A, Klein E. [Discontinuation of benzodiazepines--clinical and preclinical aspects]
34. Harefuah. 1994 Aug;127(3-4):122-6.
35. Ashton H. Guidelines for the rational use of benzodiazepines. When and what to use.
36. *Drugs.* 1994 Jul;48(1):25-40.
37. Worz R. [Drug dependence and withdrawal in chronic pain patients] *Fortschr Med.* 1994 Jun 10;112(16):229-
31. German.
38. Lader M. Anxiety or depression during withdrawal of hypnotic treatments. *J Psychosom Res.* 1994;38 Suppl
- 1:113-23; discussion 118-23.
39. Ballenger JC, Pecknold J, Rickels K, Sellers EM. Medication discontinuation in panic disorder. *J Clin*
- Psychiatry.* 1993 Oct;54 Suppl:15-21; discussion 22-4.
40. Marriott S, Tyrer P. Benzodiazepine dependence. Avoidance and withdrawal. *Drug Saf.* 1993 Aug;9(2):93-103.
41. Alexanian D, Voss E, Schiedermaier D. The benzodiazepine-addicted patient in general practice. *Wis Med J.*
- 1993 Apr;92(4):188-92.
42. Juergens SM. Benzodiazepines and addiction. *Psychiatr Clin North Am.* 1993 Mar;16(1):75-86.
43. File SE, Andrews N. Benzodiazepine withdrawal: behavioural pharmacology and neurochemical changes.
- Biochem Soc Symp.* 1993;59:97-106.
44. Roy-Byrne PP, Sullivan MD, Cowley DS, Ries RK. Adjunctive treatment of benzodiazepine discontinuation
- syndromes: a review. *J Psychiatr Res.* 1993;27 Suppl 1:143-53.
45. Gonzales JJ, Stern TA, Emmerich AD, Rauch SL. Recognition and management of benzodiazepine dependence.
- Am Fam Physician.* 1992 May;45(5):2269-76.
46. King MB. Is there still a role for benzodiazepines in general practice? *Br J Gen Pract.* 1992 May;42(358):202-5.
47. Schwartz HI. An empirical review of the impact of triplicate prescription of
48. benzodiazepines. *Hosp Community Psychiatry.* 1992 Apr;43(4):382-5.
49. Landry MJ, Smith DE, McDuff DR, Baughman OL 3rd. Benzodiazepine dependence and withdrawal:
- identification and medical management. *J Am Board Fam Pract.* 1992 Mar-Apr;5(2):167-75.
50. Ballenger JC. Medication discontinuation in panic disorder. *J Clin Psychiatry.* 1992 Mar;53 Suppl:26-31.
51. Apelt S, Schmauss C, Emrich HM. [Psychopharmacology and clinical aspects of benzodiazepine dependence]
- Fortschr Neurol Psychiatr.* 1992 Mar;60(3):104-9. German.
52. Otto MW, Pollack MH, Meltzer-Brody S, Rosenbaum JF. Cognitive-behavioral therapy for benzodiazepine
- discontinuation in panic disorder patients. *Psychopharmacol Bull.* 1992;28(2):123-30.
53. Wolf B, Griffiths RR. Physical dependence on benzodiazepines: differences within the class. *Drug Alcohol*
- Depend.* 1991 Dec 31;29(2):153-6.
54. Fisch HU. [Benzodiazepines: dependence, toxicity, abuse] *Schweiz Rundsch Med Prax.* 1991 Jul 2;80(27-
- 28):750-2. German.
55. Little HJ. The benzodiazepines: anxiolytic and withdrawal effects. *Neuropeptides.* 1991 Jul;19 Suppl:11-4.
56. DeVane CL, Ware MR, Lydiard RB. Pharmacokinetics, pharmacodynamics, and treatment issues of
- benzodiazepines: alprazolam, adinazolam, and clonazepam. *Psychopharmacol Bull.* 1991;27(4):463-73.
57. Alexander B, Perry PJ. Detoxification from benzodiazepines: schedules and strategies. *J Subst Abuse Treat.*
- 1991;8(1-2):9-17.
58. Busto U, Sellers EM. Pharmacologic aspects of benzodiazepine tolerance and dependence. *J Subst Abuse Treat.*
- 1991;8(1-2):29-33.
59. DuPont RL. A practical approach to benzodiazepine discontinuation. *J Psychiatr Res.* 1990;24 Suppl 2:81-90.

60. Greenblatt DJ, Miller LG, Shader RI. Benzodiazepine discontinuation syndromes. *J Psychiatr Res.* 1990;24 Suppl 2:73-9.
61. Burrows GD, Norman TR, Judd FK, Marriott PF. Short-acting versus long-acting benzodiazepines: discontinuation effects in panic disorders. *J Psychiatr Res.* 1990;24 Suppl 2:65-72.
62. Smith DE, Landry MJ. Benzodiazepine dependency discontinuation: focus on the chemical dependency detoxification setting and benzodiazepine-polydrug abuse. *J Psychiatr Res.* 1990;24 Suppl 2:145-56.
63. Nutt DJ. Pharmacological mechanisms of benzodiazepine withdrawal. *J Psychiatr Res.* 1990;24 Suppl 2:105-10.
64. Edwards JG, Cantopher T, Olivieri S. Benzodiazepine dependence and the problems of withdrawal. *Postgrad Med J.* 1990;66 Suppl 2:S27-35.
65. Miller NS, Gold MS. Identification and treatment of benzodiazepine abuse. *Am Fam Physician.* 1989 Oct;40(4):175-83.
66. Onyett SR. The benzodiazepine withdrawal syndrome and its management. *J R Coll Gen Pract.* 1989 Apr;39(321):160-3.
67. Roy-Byrne PP, Ward NG, Donnelly PJ. Valproate in anxiety and withdrawal syndromes. *J Clin Psychiatry.* 1989 Mar;50 Suppl:44-8.
68. Noyes R Jr, Garvey MJ, Cook BL, Perry PJ. Benzodiazepine withdrawal: a review of the evidence. *J Clin Psychiatry.* 1988 Oct;49(10):382-9.
69. Marks J. Techniques of benzodiazepine withdrawal in clinical practice. A consensus workshop report. *Med Toxicol Adverse Drug Exp.* 1988 Jul-Aug;3(4):324-33.
70. Roy-Byrne PP, Hommer D. Benzodiazepine withdrawal: overview and implications for the treatment of anxiety. *Am J Med.* 1988 Jun;84(6):1041-52.
71. Petrillo A, Veillon H, Hofstetter JR. [Reactions to withdrawal of benzodiazepines: implications for the practitioner] *Schweiz Rundsch Med Prax.* 1988 May 31;77(22):601-3. French.
72. Moodley P, Araya R. [Practical aspects of the clinical management of benzodiazepine dependence] *Rev Med Chil.* 1988 May;116(5):472-5. Spanish.
73. Rickels K, Schweizer E, Case GW, Garcia-Espana F. Benzodiazepine dependence, withdrawal severity, and clinical outcome: effects of personality. *Psychopharmacol Bull.* 1988;24(3):415-20.
74. Lader M. Long-term anxiolytic therapy: the issue of drug withdrawal. *J Clin Psychiatry.* 1987 Dec;48 Suppl:12-6.
75. Albeck JH. Withdrawal and detoxification from benzodiazepine dependence: a potential role of clonazepam. *J Clin Psychiatry.* 1987 Oct;48 Suppl:43-9.
76. Calanca A. [Benzodiazepines: good and bad use, dependence and withdrawal] *Rev Med Suisse Romande.* 1987 Sep;107(9):721-5. French.
77. George CF, Robertson D. Clinical consequences of abrupt drug withdrawal. *Med Toxicol Adverse Drug Exp.* 1987 Sep-Oct;2(5):367-82.
78. Browne JL, Hauge KJ. A review of alprazolam withdrawal. *Drug Intell Clin Pharm.* 1986 Nov;20(11):837-41.
79. Lennane KJ. Treatment of benzodiazepine dependence. *Med J Aust.* 1986 May 26;144(11):594-7.
80. Tennant FS Jr. Clinical management of iatrogenic drug dependence. *Psychiatr Med.* 1985;3(4):337-47.
81. Boning J. Benzodiazepine dependence: clinical and neurobiological aspects. *Adv Biochem Psychopharmacol.* 1985;40:185-92.
82. Petursson H, Lader MH. Benzodiazepine dependence. *Br J Addict.* 1981;76(2):133-45.
83. Greenblatt DJ, Shader RI. Dependence, tolerance, and addiction to benzodiazepines: clinical and pharmacokinetic considerations. *Drug Metab Rev.* 1978;8(1):13-28.

Data reported in other article:

1. Rickels K, Case WG, Schweizer E, Garcia-Espana F, Fridman R: Benzodiazepine dependence: management of discontinuation. *Psychopharmacol.Bull.* 1990; 26:63-68
2. Holton A, and Tyrer P. Five year outcome in patients withdrawn from long term treatment with diazepam. *BMJ* 1990; 300:1241-1242.
3. Oude Voshaar RC, Gorgels WJ, Mol AJ, et al. Cross-validation, predictive validity, and time course of the Benzodiazepine Dependence Self-Report Questionnaire in a benzodiazepine discontinuation trial. *Compr Psychiatry* 2003; 70(3):265-273.
4. Poyares DR, Guillemant C, Ohayon MM, and Tufik S. Can valerian improve the sleep of insomniacs after benzodiazepine withdrawal? *Prog Neuropsychopharmacol Biol Psychiatry* 2002; 26(3):539-545.

5. Vorma H, Naukkarinen H, Sarna S, and Kuoppasalmi K. Long-term outcome after benzodiazepine withdrawal treatment in subjects with complicated dependence. *Drug Alcohol Depend.* 2003; 70(3):309-314.
6. Vorma H, Naukkarinen H, Sarna S, and Kuoppasalmi K. Symptom severity and quality of life after benzodiazepine withdrawal treatment in participants with complicated dependence. *Addict Behav.* 2004; 29(6):1059-1065.

Experimental / treatment study

1. Hartelius H, Larsson AK, Lepp M, Malm U, Arvidsson A, Dahlstrom H. A controlled long-term study of flunitrazepam, nitrazepam and placebo, with special regard to withdrawal effects. *Acta Psychiatr Scand.* 1978 Jul;58(1):1-15.
2. Pecknold JC, McClure DJ, Fleuri D, Chang H. Benzodiazepine withdrawal effects. *Prog Neuropsychopharmacol Biol Psychiatry.* 1982;6(4-6):517-22.
3. Lapierre YD, Tremblay A, Gagnon A, Monpremier P, Berliiss H, Oyewumi LK. A therapeutic and discontinuation study of clobazam and diazepam in anxiety neurosis. *J Clin Psychiatry.* 1982 Sep;43(9):372-4.
4. Petursson H, Gudjonsson GH, Lader MH. Psychometric performance during withdrawal from long-term benzodiazepine treatment. *Psychopharmacology (Berl).* 1983;81(4):345-9.
5. Fontaine R, Chouinard G, Annable L. Bromazepam and diazepam in generalized anxiety: a placebo-controlled study of efficacy and withdrawal. *Psychopharmacol Bull.* 1984 Winter;20(1):126-7. No abstract available.
6. Fontaine R, Chouinard G, Annable L. Rebound anxiety in anxious patients after abrupt withdrawal of benzodiazepine treatment. *Am J Psychiatry.* 1984 Jul;141(7):848-52.
7. Fontaine R, Annable L, Beaudry P, Mercier P, Chouinard G. Efficacy and withdrawal of two potent benzodiazepines: bromazepam and lorazepam. *Psychopharmacol Bull.* 1985;21(1):91-2. No abstract available.
8. Pecknold JC, Swinson RP. Taper withdrawal studies with alprazolam in patients with panic disorder and agoraphobia. *Psychopharmacol Bull.* 1986;22(1):173-6. No abstract available.
9. Mellman TA, Uhde TW. Withdrawal syndrome with gradual tapering of alprazolam. *Am J Psychiatry.* 1986 Nov;143(11):1464-6.
10. Fontaine R, Beaudry P, Beauclair L, Chouinard G. Comparison of withdrawal of buspirone and diazepam: a placebo controlled study. *Prog Neuropsychopharmacol Biol Psychiatry.* 1987;11(2-3):189-97.
11. Greenblatt DJ, Harmatz JS, Zinny MA, Shader RI. Effect of gradual withdrawal on the rebound sleep disorder after discontinuation of triazolam. *N Engl J Med.* 1987 Sep 17;317(12):722-8.
12. Pecknold JC, Swinson RP, Kuch K, Lewis CP. Alprazolam in panic disorder and agoraphobia: results from a multicenter trial. III. Discontinuation effects. *Arch Gen Psychiatry.* 1988 May;45(5):429-36.
13. Noyes R Jr, Garvey MJ, Cook B, Suelzer M. Controlled discontinuation of benzodiazepine treatment for patients with panic disorder. *Am J Psychiatry.* 1991 Apr;148(4):517-23.
14. Rickels K, Schweizer E, Weiss S, Zavadnick S. Maintenance drug treatment for panic disorder. II. Short- and long-term outcome after drug taper. *Arch Gen Psychiatry.* 1993 Jan;50(1):61-8.
15. Shapiro CM, MacFarlane JG, MacLean AW. Alleviating sleep-related discontinuance symptoms associated with benzodiazepine withdrawal: a new approach. *J Psychosom Res.* 1993;37 Suppl 1:55-7.
16. Spiegel DA, Bruce TJ, Gregg SF, Nuzzarello A. Does cognitive behavior therapy assist slow-taper alprazolam discontinuation in panic disorder? *Am J Psychiatry.* 1994 Jun;151(6):876-81.
17. Klein E, Colin V, Stolk J, Lenox RH. Alprazolam withdrawal in patients with panic disorder and generalized anxiety disorder: vulnerability and effect of carbamazepine. *Am J Psychiatry.* 1994 Dec;151(12):1760-6.
18. Gerra G, Giucasto G, Zaimovic A, Fertoni G, Chittolini B, Avanzini P, Caccavari R, Delsignore R. Intravenous flumazenil following prolonged exposure to lormetazepam in humans: lack of precipitated withdrawal. *Int Clin Psychopharmacol.* 1996 Jun;11(2):81-8.

19. Hayward P, Wardle J, Higgitt A, Gray J. Changes in "withdrawal symptoms" following discontinuation of low-dose diazepam. *Psychopharmacology (Berl)*. 1996 Jun;125(4):392-7.
20. Lemoine P, Rouillon F, and Pouget D. Efficacy and withdrawal of clobazam, lorazepam and buspirone in the treatment of anxiety disorders [article in French]. *Encephale* 1996; 22(6):461-467.
21. Saxon L, Hjemdahl P, Hiltunen AJ, Borg S. Effects of flumazenil in the treatment of benzodiazepine withdrawal--a double-blind pilot study. *Psychopharmacology (Berl)*. 1997 May;131(2):153-60.
22. Connor KM, Davidson JR, Potts NL, Tupler LA, Miner CM, Malik ML, Book SW, Colket JT, Ferrell F. Discontinuation of clonazepam in the treatment of social phobia. *J Clin Psychopharmacol*. 1998 Oct;18(5):373-8.
23. Pat-Horenczyk R, Hacoheh D, Herer P, Lavie P. The effects of substituting zopiclone in withdrawal from chronic use of benzodiazepine hypnotics. *Psychopharmacology (Berl)*. 1998 Dec;140(4):450-7.
24. Bruce TJ, Spiegel DA, Hegel MT. Cognitive-behavioral therapy helps prevent relapse and recurrence of panic disorder following alprazolam discontinuation: a long-term follow-up of the Peoria and Dartmouth studies. *J Consult Clin Psychol*. 1999 Feb;67(1):151-6.
25. Hajak G, Clarenbach P, Fischer W, Rodenbeck A, Bandelow B, Broocks A, Ruther E. Rebound insomnia after hypnotic withdrawal in insomniac outpatients. *Eur Arch Psychiatry Clin Neurosci*. 1998;248(3):148-56.
26. Cohen-Mansfield J, Lipson S, Werner P, Billig N, Taylor L, Woosley R. Withdrawal of haloperidol, thioridazine, and lorazepam in the nursing home: a controlled, double-blind study. *Arch Intern Med*. 1999 Aug 9-23;159(15):1733-40.
27. Moroz G, and Rosenbaum JF. Efficacy, safety, and gradual discontinuation of clonazepam in panic disorder: a placebo-controlled, multicenter study using optimized dosages. *J Clin Psychiatry* 1999; 60(9):604-612.
28. Mintzer MZ, Stoller KB, and Griffiths RR. A controlled study of flumazenil-precipitated withdrawal in chronic low-dose benzodiazepine users. *Psychopharmacology (Berl)*. 1999; 147(2):200-209.
29. Voderholzer U, Riemann D, Hornyak M, et al. A double-blind, randomized and placebo-controlled study on the polysomnographic withdrawal effects of zopiclone, zolpidem and triazolam in healthy subjects. *Eur Arch Psychiatry Clin Neurosci* 2001; 251(3):117-123.
30. Saxon L, Hiltunen AJ, Hjemdahl P, et al. Gender-related differences in response to placebo in benzodiazepine withdrawal: a single-blind pilot study. *Psychopharmacology (Berl)*. 2001; 153(2):231-237.
31. McAndrews PM, Weiss RT, Sandor P, et al. Cognitive effects of long-term benzodiazepine use in older adults. *Hum Psychopharmacol* 2003; 18(1):51-57.

BZD discontinuation studies

Excluded:

Uncontrolled studies:

1. Petursson H, Lader MH: Withdrawal from long-term benzodiazepine treatment. *Br.Med.J.(Clin.Res.Ed)* 1981; 283:643-645
2. Hopkins DR, Sethi KB, Mucklow JC: Benzodiazepine withdrawal in general practice. *J.R.Coll.Gen.Pract.* 1982; 32:758-762
3. Tyrer P, Owen R, Dawling S: Gradual withdrawal of diazepam after long-term therapy. *Lancet* 1983; 1:1402-1406
4. Harrison M, Busto U, Naranjo CA, Kaplan HL, Sellers EM: Diazepam tapering in detoxification for high-dose benzodiazepine abuse. *Clin.Pharmacol.Ther.* 1984; 36:527-533
5. Rickels K, Case WG, Schweizer EE, Swenson C, Fridman RB: Low-dose dependence in chronic benzodiazepine users: a preliminary report on 119 patients. *Psychopharmacol.Bull.* 1986; 22:407-415

6. Ghodse AH, London M, Bewley TH, Bhat AV: In-patient treatment for drug abuse. *Br.J.Psychiatry* 1987; 151:72-75
7. Ashton H: Benzodiazepine withdrawal: outcome in 50 patients. *Br.J.Addict.* 1987; 82:665-671
8. Golombok S, Higgitt A, Fonagy P, Dodds S, Saper J, Lader M: A follow-up study of patients treated for benzodiazepine dependence. *Br.J.Med.Psychol.* 1987; 60 (Pt 2):141-149
9. Soyka M, Steinberg R, Vollmer M: [Withdrawal phenomena in stepwise withdrawal of benzodiazepines]. *Nervenarzt* 1988; 59:744-748
10. O'Leary M: A novel approach to tackling the "benzodiazepine problem" in general practice. *Psychiatric Bulletin* 1989; 13:180-181
11. Rickels K, Schweizer E, Case WG, Greenblatt DJ: Long-term therapeutic use of benzodiazepines. I. Effects of abrupt discontinuation. *Arch.Gen.Psychiatry* 1990; 47:899-907
12. Schweizer E, Rickels K, Case WG, Greenblatt DJ: Long-term therapeutic use of benzodiazepines. II. Effects of gradual taper. *Arch.Gen.Psychiatry* 1990; 47:908-915
13. Drake J: Temazepam 'Planpak': a multicentre general practice trial in planned benzodiazepine hypnotic withdrawal. *Curr.Med.Res.Opin.* 1991; 12:390-393
14. Murphy SM, Tyrer P: A double-blind comparison of the effects of gradual withdrawal of lorazepam, diazepam and bromazepam in benzodiazepine dependence. *Br.J.Psychiatry* 1991; 158:511-516
15. Rickels K, Case WG, Schweizer E, Garcia-Espana F, Fridman R: Long-term benzodiazepine users 3 years after participation in a discontinuation program. *Am.J.Psychiatry* 1991; 148:757-761
16. Brenner PM, Wolf B, Rechlin T, Kauert G, Ruther E, Hippus H: Benzodiazepine dependence: detoxification under standardized conditions. *Drug Alcohol Depend.* 1991; 29:195-204
17. DuPont RL, Swinson RP, Ballenger JC, Burrows GD, Noyes R, Rubin RT, Rifkin A, Pecknold JC: Discontinuation of alprazolam after long-term treatment of panic-related disorders. *J.Clin.Psychopharmacol.* 1992; 12:352-354
18. Holton A, Riley P, Tyrer P: Factors predicting long-term outcome after chronic benzodiazepine therapy. *J.Affect.Disord.* 1992; 24:245-252
19. McDuff DR, Schwartz RP, Tommasello A, Tiegel S, Donovan T, Johnson JL: Outpatient benzodiazepine detoxification procedure for methadone patients. *J.Subst.Abuse Treat.* 1993; 10:297-302
20. Habraken H, Soenen K, Blondeel L, Van Elsen J, Bourda J, Coppens E, Willeput M: Gradual withdrawal from benzodiazepines in residents of homes for the elderly: experience and suggestions for future research. *Eur.J.Clin.Pharmacol.* 1997; 51:355-358
21. Schweizer E, Rickels K, De Martinis N, Case G, Garcia-Espana F: The effect of personality on withdrawal severity and taper outcome in benzodiazepine dependent patients. *Psychol.Med.* 1998; 28:713-720
22. Rickels K, Lucki I, Schweizer E, Garcia-Espana F, Case WG. Psychomotor performance of long-term benzodiazepine users before, during, and after benzodiazepine discontinuation. *J Clin Psychopharmacol.* 1999 Apr;19(2):107-13.
23. Morgan JD, Wright DJ and Chrystyn H. Pharmacoeconomic evaluation of a patient education letter aimed at reducing long-term prescribing of benzodiazepines. *Pharm World Sci* 2002; 24(6); 231-236.
24. O'Connor KP, Marchand A, Belanger L, Mainguy N, Landry P, Savard P, Turcotte J, Dupuis G, Harel F, Lachance L. Psychological distress and adaptational problems associated with benzodiazepine withdrawal and outcome: a replication. *Addict Behav.* 2004; 29(4):583-593.

Inadequate control group

1. Busto U, Sellers EM, Naranjo CA, Cappell H, Sanchez-Craig M, Sykora K. Withdrawal reaction after long-term therapeutic use of benzodiazepines. *N Engl J Med.* 1986 Oct 2;315(14):854-9.
2. Tham TC, Brown H, Taggart HM. Temazepam withdrawal in elderly hospitalized patients: a double blind randomised trial comparing abrupt versus gradual withdrawal. *Ir J Med Sci.* 1989 Dec;158(12):294-9.

3. Petrovic M, Pevernagie D, Mariman A, Van Maele G, and Afschrift M. Fast withdrawal from benzodiazepines in geriatric inpatients: a randomised double-blind, placebo-controlled trial. *Eur J Clin Pharmacol* 2002; 57:759-764.
4. Poyares DR, Guillement C, Ohayon MM, and Tufik. Can valerian improve the sleep of insomniacs after benzodiazepine withdrawal? *Prog Neuropsychopharmacol Biol Psychiatry* 2002; 26(3):539-545.
5. Mc Gregor C, Machin A, and White JM. In-patient benzodiazepine withdrawal: comparison of fixed and symptom-triggered taper methods. *Drug Alcohol Rev.* 2003; 22(2):175-180.
6. Curran HV, Collins R, Fletcher S, Kee SC, Woods B and Iliffe S. Older adults and withdrawal from benzodiazepine hypnotics in general practice: effects on cognitive function, sleep, mood and quality of life. *Psychol Med.* 2003; 33(7):1223-1337.

Inadequate randomisation procedure

1. Weizman T, Gelkopf M, Melamed Y, Adelson M, and Bleich A. Treatment of benzodiazepine dependence in methadone maintenance treatment patients: a comparison of two therapeutic modalities and the role of psychiatric comorbidity. *Australina and New Zealand Journal of Psychiatry* 2003; 37:458-463.

Incomplete report of outcome measures

BZD discontinuation augmentation studies

Excluded:

Uncontrolled studies:

1. Cormack MA, Sinnott A: Psychological alternatives to long-term benzodiazepine use. *J.R.Coll.Gen.Pract.* 1983; 33:279-281
2. Schweizer E, Rickels K: Failure of buspirone to manage benzodiazepine withdrawal. *Am.J.Psychiatry* 1986; 143:1590-1592
3. Schmauss C, Apelt S, Emrich HM: Characterization of benzodiazepine withdrawal in high- and low-dose dependent psychiatric inpatients. *Brain Res.Bull.* 1987; 19:393-400
4. Crouch G, Robson M, Hallstrom C: Benzodiazepine dependent patients and their psychological treatment. *Prog.Neuropsychopharmacol.Biol.Psychiatry* 1988; 12:503-510
5. Ries RK, Roy-Byrne PP, Ward NG, Neppe V, Cullison S: Carbamazepine treatment for benzodiazepine withdrawal. *Am.J.Psychiatry* 1989; 146:536-537
6. Joughin N, Tata P, Collins M, Hooper C, Falkowski J: In-patient withdrawal from long-term benzodiazepine use. *Br.J.Addict.* 1991; 86:449-455
7. Ansseau M, De Roeck J: Trazodone in benzodiazepine dependence. *J.Clin.Psychiatry* 1993; 54:189-191
8. Kaendler SH, Volk S, Pflug B: [Benzodiazepine withdrawal with carbamazepine]. *Nervenarzt* 1996; 67:381-386
9. Charney DA, Paraherakis AM, Gill KJ: The treatment of sedative-hypnotic dependence: evaluating clinical predictors of outcome. *J.Clin.Psychiatry* 2000; 61:190-195

Inadequate control group

1. Nathan RG, Robinson D, Cherek DR, Sebastian CS, Hack M, Davison S: Alternative treatments for withdrawing the long-term benzodiazepine user: a pilot study. *Int.J.Addict.* 1986; 21:195-211
2. Sanchez-Craig M, Cappell H, Busto U, Kay G: Cognitive-behavioural treatment for benzodiazepine dependence: a comparison of gradual versus abrupt cessation of drug intake. *Br.J.Addict.* 1987; 82:1317-1327

3. Sullivan M, Toshima M, Lynn P, Roy-Byrne P. Phenobarbital versus clonazepam for sedative-hypnotic taper in chronic pain patients. A pilot study. *Ann Clin Psychiatry*. 1993 Jun;5(2):123-8.
4. Elsesser K, Sartory G, Maurer J: The efficacy of complaints management training in facilitating benzodiazepine withdrawal. *Behav.Res.Ther*. 1996; 34:149-156
5. Kornowski J. The comparison of tianeptine and carbamazepine in benzodiazepine withdrawal symptoms [article in Polish] *Psychiatr Pol* 2002; 36(6 suppl):311-318.

Inadequate randomisation procedure

1. Higgitt A, Golombok S, Fonagy P, Lader M: Group treatment of benzodiazepine dependence. *Br.J.Addict*. 1987; 82:517-532

Incomplete report of outcome measures

1. Hallstrom C, Crouch G, Robson M, Shine P. The treatment of tranquilizer dependence by propranolol. *Postgrad Med J*. 1988;64 Suppl 2:40-4.
2. Romach MK, Kaplan HL, Busto UE, Somer G, Sellers EM: A controlled trial of ondansetron, a 5-HT₃ antagonist, in benzodiazepine discontinuation. *J.Clin.Psychopharmacol*. 1998; 18:121-131
3. Lichstein KL, Peterson BA, Riedel BW, Means MK, Epperson MT, Aguillard RN. Relaxation to assist sleep medication withdrawal. *Behav Modif*. 1999 Jul;23(3):379-402.
4. Cardinali DP, Gvozdenovich E, Kaplan MR, Fainstein I, Shifis HA, Lloret SP, Albornoz L, and Negri A. A double blind-placebo controlled study on melatonin efficacy to reduce anxiolytic benzodiazepine use in the elderly. *Neuroendocrinology letters* 2002; 23:55-60.
5. Roy-Byrne R, Russo J, Pollack M, Stewart R, Bystrisky A, Bell J, Rosenbaum J, Corrigan MH, Stolk J, Rush AJ, and Ballenger J. Personality and symptom sensitivity predictors of alprazolam withdrawal in panic disorder. *Psychol Med*. 2003; 33:511-518.