have occasionally been given. Initial doses for elderly and debilitated patients should not exceed 3 mg daily in divided doses.

◊ References.

- 1. Kaplan SA, et al. Biopharmaceutical and clinical pharmacokinetic profile of bromazepam. J Pharmacokinet Biopharm 1976; 4: 1–16.
- Ochs HR, et al. Bromazepam pharmacokinetics: influence of age, gender, oral contraceptives, cimetidine, and propranolol. *Clin Pharmacol Ther* 1987; 41: 562–70.
- 3. Erb T, et al. Preoperative anxiolysis with minimal sedation in elderly patients: bromazepam or clorazepate-dipotassium? Acta Anaesthesiol Scand 1998; 42: 97-101.

Preparations

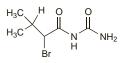
Proprietary Preparations (details are given in Part 3) Arg.: Angular†; Atemperator; Benedorm; Bromatanil; Butecam; Creosedin; Equisedin; Estomina; Fabozepam; Finaten; Gasmol; Lexotanil; Molival†; Neu-Equisedin', Estomina; Fabozepam; Finaten; Gasmol; Lexotani; Molival†; Neu-rozepam; Nulastres; Octanyi; Sedatus†; Sipcar; Tritopan, **Austral**.: Lexotan; **Bayes**: Bromatop: Bromidon; Dochromaze; Kelalexan; Lexotan; **Braz**.: Bromazepan†; Bromidon; Dochromaze; Kelalexan; Lexotan; **Braz**.: Bromazepan†; Bromoxon; Brozepax†; Deptran†; Lexotan; Lexotan; **Braz**.: Bromazepan†; Relavit; Somalium; Uni Bro-mazepax; **Cand:**.: Lectopam; **Chile**: Lexotani; Totasedan; **Cz**.: Lexaurin; **Denm:**: Bromaru; Heurilan; Novazepam†; Relavit; Somalium; Uni Bro-mazepax; **Cand:**.: Lectopam; **Chile**: Lexotani; Totasedan; **Cz**.: Lexaurin; **Denma**; Bromary, Isomaznii; Bromazep; Jdurzani; Giyt; Lexostad; Lexo-tani; neo OPT; Normoc; **Gr**.: Anconevron†; Evagelin; Lexotani; Libroni-R; Notorium; Bascalium; **Hong Kong**; Akamon; Lexilium; Lexotan; **Indon**: Lexotan; **Inl**: Lexotan; **Merz:** Bropamil†; Lexotan; Otedram; **Neth.**: Lexotani; **Brinip**: Lexotan; **D**: Lexotan; **Sedam; Port:** Broma lex, Lexotan; Ultramidol; **S.Afr:** Brazepam; Bromaze; Lexotan; **Singopore**: Lexotan; **Spin**: Lexatin; **Switz**: Lexotani; **Thai**: Lexotan; **Venez**.: Lexotan; **Chin**; **Nerv**an.

Multi-ingredient: Arg.: Biorgan B; Colixane B; Debridat B; Eudon; Eumo-til-T; Faradil Novo; Fenatrop-A; Miopropan-T; Somasedan; Vegestabil Di-gest; Veralipral T; Braz.: Bromopirin; Sulpar; Ital.: Lexil.

Bromisoval (INN)

Bromisovaali; Bromisovalerylurea; Bromisovalum; Bromsoval; Bromvalerylurea; Bromvaletone; Bromylum. N-(2-Bromo-3methylbutyryl)urea.

Бромизовал $C_6H_{11}BrN_2O_2 = 223.1.$ CÅS — 496-67-3. ATC — N05CM03. ATC Vet — QN05CM03.



Pharmacopoeias. In Jpn.

Profile

Bromisoval has actions and uses similar to those of carbromal (p.967) but the use of bromides is generally deprecated.

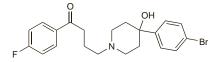
Preparations

Proprietary Preparations (details are given in Part 3) Multi-ingredient: Pol.: Milocardin.

Bromperidol (BAN, USAN, rINN)

Bromiperidoli; Brómperidol; Brompéridol; Bromperidoli; Bromperidolis; Bromperidolum; R-11333. 4-[4-(p-Bromophenyl)-4-hydroxypiperidino]-4'-fluorobutyrophenone.

Бромперидол $C_{21}H_{23}BrFNO_2 = 420.3.$ CAS — 10457-90-6. ATC — N05AD06. ATC Vet - QN05AD06.



Pharmacopoeias. In Eur. (see p.vii).

Ph. Eur. 6.2 (Bromperidol). A white or almost white powder. Practically insoluble in water; slightly soluble in alcohol; sparingly soluble in dichloromethane and in methyl alcohol. Protect from light.

Bromperidol Decanoate (BANM, USAN, rINNM)

Brompéridol, décanoate de: Bromperidoldekanoat: Brómperidol-dekanoát; Bromperidol-dekanoát; Bromperidoli decanoas; Bromperidolidekanoaatti: Bromperidolio dekanoatas: Decanoato de bromperidol; R-46541.

Бромперидола Деканоат $C_{31}H_{41}BrFNO_3 = 574.6.$

- 75067-66-2.

Pharmacopoeias. In Eur. (see p.vii).

Ph. Eur. 6.2 (Bromperidol Decanoate). A white or almost white powder. Practically insoluble in water; soluble in alcohol; very soluble in dichloromethane. It melts at about 60°. Store at a temperature below 25°. Protect from light.

Profile

Bromperidol is a butyrophenone with general properties similar to those of haloperidol (p.1000). It is given in the treatment of schizophrenia (p.955) and other psychoses. Some bromperidol preparations are prepared with the aid of lactic acid and may be stated to contain bromperidol lactate. However, doses are expressed in terms of the equivalent amount of bromperidol. A usual oral dose is 1 to 15 mg daily, although up to 50 mg daily has been given. Elderly patients may require reduced doses of bromperidol. Bromperidol has also been given by intramuscular or intravenous injection.

The long-acting decanoate ester may be used for patients requiring long-term therapy with bromperidol. Doses are expressed in terms of the base; bromperidol decanoate 68.4 mg is equivalent to about 50 mg of bromperidol. Doses equivalent to up to 300 mg of bromperidol every 4 weeks have been given by deep intramuscular injection.

◊ References.

Benfield P, et al. Bromperidol: a preliminary review of its phar-macodynamic and pharmacokinetic properties, and therapeutic efficacy in psychoses. Drugs 1988; 35: 670–84.

Schizophrenia. A systematic review1 suggested that depot bromperidol had some benefits in schizophrenia but was less effective than depot haloperidol or fluphenazine.

1. Wong D, et al. Depot bromperidol decanoate for schizophrenia. Available in The Cochrane Database of Systematic Reviews; Is-sue 3. Chichester: John Wiley; 2004 (accessed 14/04/05).

Preparations

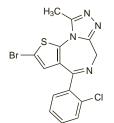
Proprietary Preparations (details are given in Part 3) Arg.: Bromodol; Erodium; Belg.: Impromen; Ger.: Impromen; Tesoprel; Ital.: Impromen; Neth.: Impromen; Port.: Impromen†; Thai.: Brofed; Impromen†

Brotizolam (BAN, USAN, rINN)

Brotitsolaami; Brotizolamum; Brotyzolam; We-941; We-941-BS. 2-Bromo-4-(2-chlorophenyl)-9-methyl-6H-thieno[3,2f][1,2,4]triazolo[4,3-a][1,4]diazepine.

Бротизолам

 $C_{15}H_{10}BrCIN_4S = 393.7.$ CAS - 57801-81-7. ATC - N0.5CD09. ATC Vet - QN05CD09.



Pharmacopoeias. In Eur. (see p.vii).

Ph. Eur. 6.2 (Brotizolam). A white or yellowish powder. Practically insoluble in water; slightly soluble in alcohol; sparingly soluble or slightly soluble in methyl alcohol.

Profile

Brotizolam is a short-acting benzodiazepine with general properties similar to those of diazepam (p.986). It is given for the shortterm (up to 2 weeks) management of insomnia (p.957) in usual oral doses of 250 micrograms at night. The suggested dose for elderly and debilitated patients is 125 micrograms.

Abuse. Reference to abuse of brotizolam in Germany and Hong Kong.1

WHO. WHO expert committee on drug dependence: twenty-ninth report. WHO Tech Rep Ser 856 1995.

Pharmacokinetics. References.

- 1. Bechtel WD. Pharmacokinetics and metabolism of brotizolam in humans. Br J Clin Pharmacol 1983; 16: 279S-283S.
- 2. Jochemsen R, et al. Pharmacokinetics of brotizolam in healthy subjects following intravenous and oral administration. Br J Clin Pharmacol 1983; 16: 285S–290S.
- 3. Tokairin T, et al. Inhibition of the metabolism of brotizolam by erythromycin in humans: in vivo evidence for the involvement of CYP3A4 in brotizolam metabolism. Br J Clin Pharmacol 2005; 60: 172–5.

Preparations

Proprietary Preparations (details are given in Part 3)

Austria: Lendormi; Belg: Lendormin; Chile: Dormex; Noctilar, Denm.: Lendormi; Ger: Lendormin; Hung: Lendormin; Israel: Bondormin; Ital: Lendormin; Nimbisan; Jpn: Lendormin; Mex.: Lindormin; Neth: Lendor-min; Port: Lendormin; S.Afr.: Lendormin; Spain: Sintonal; Switz.: Lendormin; Port: Lendormin; S.Afr.: Lendormin; Spain: Sintonal; Switz.: Lendormin; Port: Lendormin; Spain: Sintonal; Switz.: Lendormin; Spain: Sintonal; Swi dorminet: Venez.: Lendormin.

Buspirone Hydrochloride

(BANM, USAN, rINNM)

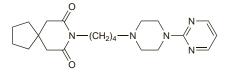
Buspiron Hidroklorür; Buspirone, chlorhydrate de; Buspironhydrochlorid; Buspironhydroklorid; Buspironi hydrochloridum; Buspironihydrokloridi; Buspironu chlorowodorek; Hidrocloruro de buspirona; MJ-9022-1. 8-[4-(4-Pyrimidin-2-ylpiperazin-1-yl)butyl]-8-azaspiro[4.5]decane-7,9-dione hydrochloride.

 $C_{21}H_{31}N_5O_2$,HCI = 422.0.

CAS — 36505-84-7 (buspirone); 33386-08-2 (buspirone hvdrochloride).

ATC - NO5BEOI

ATC Vet - QN05BE01.



(buspirone)

Pharmacopoeias. In Eur. (see p.vii) and US.

Ph. Eur. 6.2 (Buspirone Hydrochloride). A white or almost white, crystalline powder. It exhibits polymorphism. Freely soluble in water and in methyl alcohol; practically insoluble in acetone. Protect from light.

USP 31 (Buspirone Hydrochloride). A white crystalline powder. Very soluble in water; sparingly soluble in alcohol and in acetonitrile; freely soluble in dichloromethane and in methyl alcohol; very slightly soluble in ethyl acetate; practically insoluble in hexanes. Store in airtight containers at a temperature between 15° and 30°. Protect from light.

Dependence and Adverse Effects

Dizziness, nausea, headache, nervousness, light-headedness, excitement, paraesthesias, sleep disturbances, chest pain, tinnitus, sore throat, and nasal congestion are amongst the most frequent adverse effects reported after the use of buspirone hydrochloride. Other adverse effects have included tachycardia, palpitations, drowsiness, confusion, seizures, dry mouth, fatigue, and sweating. A syndrome of restlessness appearing shortly after the start of treatment has been reported in a small number of patients given buspirone. Buspirone is reported to produce less sedation, and to have a lower potential for dependence, than the benzodiazepines.

Effects on the nervous system. Mild acute hypertension and panic were reported on two occasions after the addition of single 10-mg doses of buspirone to therapy with tricyclic antidepressants in a 40-year-old man with panic disorder. Adrenergic or serotonin dysfunction were postulated as possible mechanisms for the reaction.^{1,2} Psychotic reactions associated with buspirone treatment have also been reported in a few patients.³ There have also been isolated reports of mania,4 and seizures have been reported, primarily in overdosage.5

- Chignon JM, Lepine JP. Panic and hypertension associated with single dose of buspirone. *Lancet* 1989; ii: 46–7.
- 2. Norman TR, Judd FK. Panic attacks, buspirone, and serotonin function. Lancet 1989: ii: 615
- 3. Friedman R. Possible induction of psychosis by buspirone. Am J Psychiatry 1991; 148: 1606.
- Price WA, Bielefeld M. Buspirone-induced mania. J Clin Psy-chopharmacol 1989; 9: 150–1.
- 5. Catalano G, et al. Seizures associated with buspirone overdose: case report and literature review. Clin Neuropharmacol 1998; 21: 347-50

EXTRAPYRAMIDAL DISORDERS. There have been isolated reports of exacerbation or precipitation of movement disorders sociated with the use of buspirone. However, buspirone has also been reported to have been of benefit in some patients with tardive dyskinesia (see Extrapyramidal Disorders under Uses and Administration, below).

1. Hammerstad JP, et al. Buspirone in Parkinson's disease. Clin Neuropharmacol 1986; 9: 556-60.