

Hydrocortisone Tablets; Hydrocortisone Valerate Cream; Hydrocortisone Valerate Ointment; Neomycin and Polymyxin B Sulfates and Hydrocortisone Acetate Cream; Neomycin and Polymyxin B Sulfates and Hydrocortisone Acetate Ophthalmic Suspension; Neomycin and Polymyxin B Sulfates and Hydrocortisone Otic Solution; Neomycin and Polymyxin B Sulfates and Hydrocortisone Otic Suspension; Neomycin and Polymyxin B Sulfates, Bacitracin Zinc, and Hydrocortisone Acetate Ophthalmic Ointment; Neomycin and Polymyxin B Sulfates, Bacitracin Zinc, and Hydrocortisone Ointment; Neomycin and Polymyxin B Sulfates, Bacitracin, and Hydrocortisone Acetate Ointment; Neomycin and Polymyxin B Sulfates, Bacitracin, and Hydrocortisone Acetate Ophthalmic Ointment; Neomycin and Polymyxin B Sulfates, Gramicidin, and Hydrocortisone Acetate Cream; Neomycin Sulfate and Hydrocortisone Acetate Cream; Neomycin Sulfate and Hydrocortisone Acetate Ointment; Neomycin Sulfate and Hydrocortisone Acetate Ophthalmic Ointment; Neomycin Sulfate and Hydrocortisone Acetate Ophthalmic Suspension; Neomycin Sulfate and Hydrocortisone Cream; Neomycin Sulfate and Hydrocortisone Ointment; Neomycin Sulfate and Hydrocortisone Otic Suspension; Oxycortacycline Hydrochloride and Hydrocortisone Acetate Ophthalmic Suspension; Oxycortacycline Hydrochloride and Hydrocortisone Ointment; Polymyxin B Sulfate and Hydrocortisone Otic Solution.

#### Proprietary Preparations (details are given in Part 3)

**Arg.:** Alfaco; Anusol-HC; Azuthidrona; Cortenem; Demacort; Efficort; Fridalit; Hidroisona; Idenona†; Lactid HC; Locoid; Medocid; Microsona; Oralsona; Schieric; Sirotamycin HC; Stiefcort; Tanderma H; **Austral.:** Colifoam; Cortaid†; Cortef; Cortic; Derm-Aid; Egoport; Hycort; Hysone; Sigmacort; Siguent; Hycort; Solu-Cortef; **Austria:** Colifoam; Elzemalbe F; Hydofal sine neomycin; Hydrocortone; Hydroderm; Locoid; Retef; **Belg.:** Azacortine; Buccalson†; Cortil†; Cremicort-H; Locoid; Nozema; Pannocort; Solu-Cortef; **Braz.:** Berlison; Cortisonal; Cortiston; Cortizol; Cortizon; Hidrocortex; Hidyn H; Locoid; Nutracort; Solu-Cortef; Stiefcort†; Therasona; Westcort; **Canada:** A-Hydrocort†; Barriere-HC; Claritin Skin Itch Relief; Cortaid; Cortef; Cortenema; Cortifoam; Cortoderm; Dermaflex HC; Dermarest Dricort Anti-Itch; Emo-Cort Hycort; Hydrem; Hydrosone; HydroVal; Novo-Hydrocort; Preveex HC; Sama HC; Solu-Cortef; Westcort; **Chile:** Aquanil HC; Calmurid; Cortisol; Efficort; Hipogee; Lacticare-HC†; Locoid; Nutracort; Nutralna†; Pandel; Solu-Cortef; Vitulpas†; **Cz.:** Laticort†; Locoid; Solu-Cortef; **Dennm.:** Colifoam; Locoid; Mildison; Solu-Cortef; Uniderm; **Fin.:** Amplyk; Apocort; Bucort; Colifoam; Kypakkaus; Locoid; Nutracort†; Solu-Cortef; **Fr.:** Aphilan; Calmicort; Colofoam; Cortapais†; Cortisederm†; Dermaspraid Demangeaison; Dermofenac†; Efficort; Hydrocort; Locoid; Mitocortyl†; Proctocort†; **Ger.:** Alfason; Colifoam; Dermallerg†; Dermoposterisan†; Ebenol; Fenistil Hydrocort; Ricort†; Glycortison†; Hydro-Wolff†; Hydrocort†; Hydrocutan; Hydrocutan mild; Hydroderm HC; Hydrogalen; Laticort; Linola Cort Hydro; Munitren; Pandel; Postenine Cortef†; Postenisan cort; ratioAllerg†; Remederin HC; Sanatison Mono; Soventol HC; Systral Hydrocort; velopar†; **Gr.:** Colifoam; Filocort; Lyo-Cort†; Nutracort†; Rolak; Solu-Cortef; **Hong Kong:** Cortef; Derm-Aid; Dhacort; Efficort†; Egoport; Hycort†; Hydrosone; Hysone; Lacticare-HC†; Sigmacort; Solu-Cortef; **Hung.:** Cortef; Laticort; Locoid; Solu-Cortef; **India:** Ciporlin; Cutisoft; Entofeam; Wyocort; **Indon.:** Berlicort; Calacort; Enkacort; Lexacort†; Locoid; Steroderm; **Ir.:** Colifoam; Corlan; Cortopin; Dioiderm; Hc45; Hydrocortisyl; Hydrocortone; Locoid; Mildison†; Solu-Cortef; **Israel:** Cortifoam; Cortizone; Efficort; Lanacort; Solu-Cortef; **Ital.:** Colifoam; Cortaid†; Cortidro; Cortop; Dermir†; Dermocort†; Efficort†; Flebocortid; Folle Insetti; Idracemi; Lanacort; Lenint; Locoid†; Sintotrat; Solu-Cortef; **Jpn.:** Pandel; **Malaysia:** Derm-Aid; Dhacort†; Efficort; Egoport; H-Cort; Hydrocort; Solu-Cortef; **Mex.:** Aquanil HC; Collicort; Efficort; Fadol; Flebocortid; Remex; Icoran; Lacticare-HC; Locoid; Microsona; Nostrol; Nutracort; Solihidrol; Westcort; **Neth.:** Buccalson; Cremicort; Locoid; Mildison; Solu-Cortef; **Norw.:** Colifoam; Locoid; Mildison; Solu-Cortef; **NZ:** BK HC; Colifoam; Derm-Aid; DP Hydrocortisone; Egoport; Lemnis Fatty Cream HC; Lipocort; Locoid; Mildison; Skincalm; Solu-Cortef; **Philipp.:** Cortizan; Droxiderm; Efficort; Hycort†; Hydrotop; Lacticare-HC; Pharmacort; Solu-Cortef; **Pol.:** Corhydron; Laticort; Locoid; Procor†; **Port.:** Colifoam; Dermimade Hydrocortisona†; Hidalone; Hydrocortone; Lactisone; Locoid; Pandel; Panderm†; Rapicort; Solu-Cortef; **Rus.:** Cortef (Кортэф); Laticort (Латикорт); Locoid (Локоид); Solu-Cortef (Солу-кортеф); Sopolcort N (Сополкорт Н); **S.Afr.:** Biocort; Colifoam†; Covocort; Cutadem†; Dilucort; Locoid; Mylocort; Procutan; Solu-Cortef; Stopitch; **Singapore:** Derm-Aid; Dhacort; Efficort; Egoport; Hydrocort; Hydroderm; Solu-Cortef; **Spain:** Actocortina; Aftasone; Ceneo; Dermosa Hidrocortisona; Hemodren; Hemorrone; Hidroaltesona; Hidrocisid; Isdinium; Lactisone; Oralsona; Scalpin Capilar; Schieric; Suniderma; **Swed.:** Colifoam; Ficort†; Locoid; Mildison; Solu-Cortef; Uniderm; **Switz.:** Alfacortone; Glycortisone H†; Hydrocortone; Locoid; Sanaderm†; Solu-Cortef; **Thai.:** Hysone; Preveex HC; Solu-Cortef; **Turk.:** Cortimycine; Hipokort; Locoid; **UAE:** Alfaco†; **UK:** Colifoam; Corlan; Cortopin; Cortopin; Demacort; Dioiderm; Efcortelan; Efcortelol; Exe-Cort; Hc45; Hydrocortistab; Hydrocortone; Lanacort; Locoid; Mildison; Solu-Cortef; Zenoxone; **USA:** A-Hydrocort; Accort†; Ala-Cort; Anucort-HC; Aquanil HC; Bactine; CaldeCort; Carmol HC; Cetacort; Colocort; Cort-Dome; Cortaid; Cortef; Cortef Feminine Itch; Cortenema†; Corticaine; Cortifoam; Cortizone; Dermarest Dri-Cort; Dermol HC; Dermolate; EarSol-HC; Gynecort; Hemiln HC; Hi-Cor; Hydrocortone; HydroSkin; Hytone; Lacticare-HC; Lanacort; Locoid; Massengill Medicated; Neutrogena T/Scalp; Nutracort; Orabase HCA†; Pandel; Penecort; Procor†; Proctocort; Proctocream HC 2.5%; Recort Plus; Solu-Cortef; Synacort; Tegrin-HC; Texacort; U-Cort; Westcort; **Venez.:** Corticina; Efficort; Hidrocort; Hidrosona; Histasona†; Lacticare-HC†; Liocort; Nutracort; Pantocort†; Solu-Cortef; Stricort.

**Multi-ingredient:** **Arg.:** Aeromicrosona C†; Alercort†; Antibiocort†; Anusol Duo; Anusol Duo S; Atomoderma Plus; Bactisona; Bexon; Biocortin†; Cipro HC; Ciprocor†; Ciproflor-Otic; Cinax Otic; Cinax Otic L; Colirio Antibiotico CNH; Cristalmocina; Delos Otic; Decortex; Derivocor†; Dermoperative; Disel Hidrocortisona; Epiprocto; Gentader; Gramicort†; Griseoplus; Hidrocortin†; Hipoglos con Hidrocortisona; Irlgal; Lactiderm HC†; Lidocort Proct; Linfol Dermico; Masivol Urea; Micozol Compuesto†; Microsona C; Microsona Otic; Monizol Cort; Neo Pelvicillin; Otx HC; Oto Biotaer†; Otobiotic; Otocipro; Otoseptil†; Otoposin†; Otoposin C; Otoposin L; Procto-Ikatral; Proctoerem; Proctocipro; Prunisedan Biotic†; Quemicetina con Hidrocortisona; Reacur†; Start NP†; Terra-Cort†; Terra-Cort†; Terra-Cort†; Tocorect†; Tricur†; Tridermal†; Triefect†; Vagicur†; Xiloder†; Xyloprocto; **Austral.:** Ciproxin HC; Hydroform; Hydrozole; Proctosedyl†; Rectinol HC; Resolve Plus; Xyloprocto; **Austria:** C-Bilzd; Calmurid HC; Cortison Kemetic†; Hydofal†; Hydrocortimycin†; Ichtho-Cortin†; Otoposin†; Tropoderm†; **Belg.:** Daktaort; Eoline†; Fucidin Hydrocortisona; Ontose a l'Hydrocortisona; Otoposin†; Terra-Cort†; Terra-Cort† + Polymyxine B; **Braz.:** Anusol-HC; Cipro HC; Gingilone; Hemodotti; Hidrocort; Hidroneo†; Nitroleng†; Otocirax; Otoposin†; Terra-Cort†; Vioformio-Hidrocortisona; Xyloprocto; **Canada:** Anodan-HC; Anugescic-HC; Anusol-HC; Anuzinc HC; Anuzinc HC Plus; Cipro HC; Cortimycin†; Cortisporin†; Egozinc-HC; Fucidin H; Neo-Cortef†; Pentamycin-HC; Pramox HC; Proctodan-HC; Proctofoam-HC; Proctol; Proctomycin HC; Proctosedyl†; ratio-Hemcort-

HC; ratio-Proctosone; Rectogel HC; Rivasol HC; Sterex Plus; Uremol-HC; Vioform-Hydrocortisona; VoSol HC†; **Chile:** Cortifenol H†; Fucidin H; Otx HC; **Cz.:** Ciprobay HC Otic; Dobexil Plus†; Fucidin H; Ophthalmoframyoin Compositum; Otoposin†; Pimafucort; Proctosedyl†; Septomixine; **Dennm.:** Brentacort; Ciflox; Fucidin-Hydrocortisona; Hydrocortison med Terramycin; Hydrocortison med Terramycin og Polymyxin-B; Locoid†; Proctosedyl†; **Fin.:** Ciproxin-Hydrocortison†; Daktaort†; Duocort†; Fucidin-Hydrocortisona; Locoid†; Pantyson; Pimafucort†; Proctosedyl†; Sibicort†; Terra-Cort†; Terra-Cort† P; Trosycort†; Xyloprocto†; **Fr.:** Baicoline; Madecassol Neomycine Hydrocortison†; **Ger.:** Antiprurit†; Baycuten HC; Canesten HC†; Corti Jaik†; Farco-Tril†; Fucidine plus†; Hydrodexan†; Ichthocortin†; Novifort†; Nystaderm comp; Piganorm; Polyspectran HC; Postenisan Forte†; Terracort†; **Gr.:** Ciprofloroxacin HY†; Cortiphenol H; Daktaort†; Fucidin H; Hydrofusin†; Terra-Cort†; **Hong Kong:** Anusol-HC†; Canesten HC; Cipro HC; Corticin†; Cortiphenol H; Daktaort†; Fucidin H; Hemcort HC†; Hydro-Funga; Micosone; Otoposin†; Postenisan Forte†; Proctosedyl†; Proctosone†; Xyloprocto†; **Hung.:** Chlorocid-H†; Ciprobay†; Fucidin H; Otoposin†; Oxyort†; Pimafucort†; Postenisan Forte†; Tetran-Hydrocortison†; **India:** Bell Diono Resolvant†; Bell Resolvant†; Belymcytin-C†; Cortison Kemetic†; Cortola-m; Cortoquinol†; Crotorax-HC; Daktaort†; Efcortin†; Furacin S; Gentycin HC†; Keralin†; Medithane†; Multifungin H†; Nesoposin-H†; Pino-Cort†; Proctosedyl†; Shield†; Wyocort C Neomycin†; **Indon.:** Anusol-HC; Brentan†; Chloramphecort†; Demacort†; Epicort†; Haemacaine†; Indoson†; Kemiderm†; Nufacort†; Particol†; Ramicort†; Sancortimycin†; Terra-Cort†; Thecort†; Viohydrocort†; Visancort†; Zolacort†; **Ir.:** Alphaderm†; Alphosyl HC†; Anugescic-HC; Anusol-HC†; Calmurid HC; Canesten HC; Daktaort†; Eurax-Hydrocortisona; Fucidin H; Gentisone HC; Locoid C; Nystaform-HC†; Otoposin†; Perinal†; Proctofoam-HC†; Proctosedyl†; Quinocort†; Timodine†; Vioform-Hydrocortisona; Xyloprocto†; **Israel:** Alphosyl HC†; Benzantine H†; Calmurid HC†; Ciproxin HC; Daktaort†; Epifoam†; Fucidin H†; Hycocin†; Hycocin†; Hydroagisten†; Panthisona†; Perinal†; Procto-Glyvenol†; Proctofoam-HC†; Proctozerin-N†; Xyloprocto†; **Ital.:** Argisone†; Cort-Inal†; Cortison Chemietina†; Emorin†; Fucidin H†; Idracem†; Idracemi Eparina†; Idrocet†; Idroneonil†; Kinogen†; Mictasone†; Mixotone†; Mobilat†; Nasomixin†; Nevacort†; Prepacort H†; Preparazione Antimicroboidaria†; Proctidol†; Proctofoam-HC†; Proctosedyl†; Proctosol†; Reumacort†; Scalpin†; Sedalen Cort†; Vasosterone†; Vasosterone Antibiotico†; Vasosterone Colirio†; **Malaysia:** Becacort†; Candacort†; Cipro HC†; Cromatamin H†; Daktaort†; Decocort†; Foban-Hydro†; Fucidin H†; Miconazole H†; Neo-Hydro†; Pociin H†; Proctosedyl†; Proctosone†; Setarin H†; Ucor†; Xyloprocto†; Zanicort†; **Mex.:** Angenavog†; Biotarson N†; Ciproxina HC†; Clodiorm-H†; Cortisporin†; Daktaort†; Dermanol†; Hidrofenil†; Hidropolcin†; Litset†; Ofodex†; Oreil NF†; Oufar†; Oto Eni†; Otolone†; Poral†; Soldrin†; Sulfa Hibid†; Ultracort†; Vioformo-Cort†; Xyloform†; Xyloprocto Plus†; **Neth.:** Baicoline-B†; Calmurid HC; Daktaort†; Eurax-Hydrocortisona; Fucidin H†; Gentisone HC; Daktaort†; Fucidin-Hydrocortisona; Locoid†; Proctosedyl†; Terra-Cort†; Terra-Cort† Polymyxin B†; Xyloprocto†; **NZ:** Ciproxin HC; Daktaort†; DP Lotion-HC†; Fungocort†; Locoid C†; Micreme H†; Pimafucort†; Proctosedyl†; Xyloprocto†; **Philipp.:** Cortisporin†; Daktaort†; Fucidin H†; Hydrosop†; Isonep H†; Proctosedyl†; Trimycin-H†; **Pol.:** Atecorin†; Chlorchinaldin H†; Daktaort†; Hemcort HC†; Laticort-CH†; Oxyort†; Pimafucort†; Postenisan H†; Proctosone†; **Port.:** Anucet†; Clorocort†; Cortil†; Daktaort†; Davimicina†; Fucidine H†; Leuco Hubber†; Locoid C†; Otoposin†; Pimafucort†; Proctosone-trump†; **Rus.:** Cortomycetin (Кортормицетин); Fucidin H (Фуцидин Н); Gioxysol (Геокизон); Oksucort (Оксикорт); Pimafucort (Гиммафукорт); Postenisan Forte (Постеризан Форте); Relief Ultra (Релиф Ультра); **S.Afr.:** Calmurid HC†; Ciprobay HC; Daktaort†; Fucidin H†; Nasomixin†; Neoderm†; Otoposin†; Proctofoam†; Proctosedyl†; Terra-Cort†; Viocort†; **Singapore:** Candacort†; Canesten HC†; Ciprobay HC†; Cortaid with Aloe†; Daktaort†; Decocort†; Fucidin H†; Hydroderm C†; Micon-H†; Neo-Hydro†; Proctosedyl†; Zanicort†; **Spain:** Aftajuvant†; Aftasone B C†; Anginavog†; Antihemorrhoidal†; Bacidiporin†; Brentan†; Clinalfasol Hidrocortisona†; Ciproxina†; Cohortan†; Cortenema†; Cortison Chemiet Topica†; Dermo Hubber†; De-traine†; Edifaringen†; Fucidine H†; Grietalgen Hidrocort†; Halbut Hidrocortisona†; Hemodren Compuesto†; Hepro†; Leuco Hubber†; Milrosina Nistatina†; Neo Hubber†; Otto Difusor†; Otto Vtna†; Postenisan†; Roferban†; Terra-Cort†; Tisuderma†; **Swed.:** Cortimyk†; Daktaort†; Fenuril-Hydrocortison†; Fucidin-Hydrocortison†; Proctosedyl†; Terracort†; Terracort† met polymyxin B†; Xyloprocto†; **Switz.:** Calmurid HC†; Ciproxin HC†; Cortifluid N†; Cortimycine†; Daktaort†; Dermacalm-D†; Fucidin H†; Haemocortin†; Hydrocortisona compositum†; Neo-Hydro†; Otoposin†; Septomixine†; Terracort†; **Thai.:** Antergan†; Candacort†; Daktaort†; Decocort†; Dermasol†; Doproct†; Fucidin H†; Ladocort†; Otoposin†; Proctosedyl†; **Turk.:** Cormisin†; Kortos Ma-Ka-Tal†; Ureacort†; **UK:** Actinac†; Alphaderm†; Alphosyl HC†; Anugescic-HC†; Anusol-HC†; Plus HC†; Calmurid HC†; Canesten HC†; Daktaort†; Daktaort HC†; Econacort†; Eurax-Hydrocortisona; Fucidin H†; Gentisone HC†; Germoloids HC†; Gregodem†; Locoid C†; Nystaform-HC†; Otoposin†; Perinal†; Proctofoam-HC†; Proctosedyl†; Terra-Cort†; Timodine†; Unioirid-HC†; Vioform-Hydrocortisona; Xyloprocto†; **USA:** I + I-F†; Acetasol HC†; Al-cortin†; Analpram-HC†; AnalMantle HC†; Anumed HC†; Cipro HC†; Coly-Mycin S Otic†; Corque†; Cortane-B†; Cortatrigen†; Cortic ND†; Corticaine†; Cortimycin†; Cortisporin†; Cortisporin-TG†; Cortisporin†; Cyotic†; Dermtex HC with Aloe†; Ear-Eze†; Emergent-Ez†; Enzone†; Epifoam†; Fungoid HC†; HC Derma-Pax HC†; Pramoxine†; Hysone†; LazerSporin-C†; LidaMantle HC†; Mediotic-HC†; Neotricin HC†; Novacort†; Otdair†; Oti-Med†; Otic-Care†; OtiTricin†; Otobiotic†; Otocort†; Otomar-HC†; Otomycin-HPN†; Otoposin†; Pediotic†; Pramoxine†; Proctofoam-HC†; Terra-Cort†; Tri-Otic†; UAD-Otic†; Vanoxide-HC†; VoSol HC†; Vytone†; Xyralid†; Zone-A†; Zoto-HC†; **Venez.:** Hipoglos con Hidrocortisona†; Otalex†; Quinotic HC†; Terra-Cort†.

#### Isoflupredone Acetate (BANM, USAN, rINN) ⓧ

Acetate de isoflupredona; 9 $\alpha$ -Fluoroprednisolone Acetate; Isoflupredone, Acetate d'; Isoflupredoni Acetas; U-6013. 9 $\alpha$ -Fluoro-11 $\beta$ ,17 $\alpha$ ,21-trihydroxypregna-1,4-diene-3,20-dione 21-acetate.

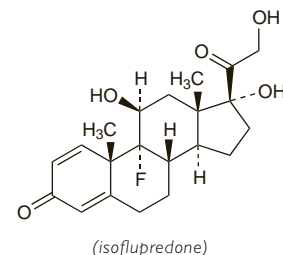
Изофлупредона Ацетат

C<sub>23</sub>H<sub>29</sub>FO<sub>6</sub> = 420.5.

CAS — 338-95-4 (isoflupredone); 338-98-7 (isoflupredone acetate).

The symbol † denotes a preparation no longer actively marketed

The symbol ⓧ denotes a substance whose use may be restricted in certain sports (see p.vii)



**Pharmacopoeias.** In *US* for veterinary use only. **USP 31** (Isoflupredone Acetate). Protect from light.

#### Profile

Isoflupredone acetate is a corticosteroid that has been used for its topical glucocorticoid activity (p.1490) in allergic rhinitis. Isoflupredone is also employed in veterinary medicine.

#### Preparations

**Proprietary Preparations** (details are given in Part 3)

**Multi-ingredient:** **Israel:** Proaf.

#### Loteprednol Etabonate (BANM, USAN, rINN) ⓧ

CDDD-5604; Etabonato de loteprednol; HGP-I; Lotéprednol, Etabonate de; Loteprednol Ethyl Carbonate; Loteprednoli Etabonas; P-5604. (11 $\beta$ ,17 $\alpha$ )-17-[(Etohyxycarbonyloxy)-11-hydroxy-3-oxoandrosta-1,4-diene-17-carboxylic acid chloromethyl ester: ЛОТЕПРЕДНОЛА ЭТАБОНАТ C<sub>24</sub>H<sub>31</sub>ClO<sub>7</sub> = 467.0. CAS — 129260-79-3 (loteprednol); 82034-46-6 (loteprednol etabonate). ATC — S01BA14. ATC Vet — QS01BA14.

#### Profile

Loteprednol etabonate is a corticosteroid used for its glucocorticoid activity (p.1490) in the topical management of inflammatory and allergic disorders of the eye. It is usually used as eye drops containing 0.2 or 0.5%.

Prolonged application to the eye of preparations containing corticosteroids has caused raised intra-ocular pressure and reduced visual function.

#### References

1. Noble S, Goa KL. Loteprednol etabonate: clinical potential in the management of ocular inflammation. *BioDrugs* 1998; **10**: 329-39.

#### Preparations

**Proprietary Preparations** (details are given in Part 3)

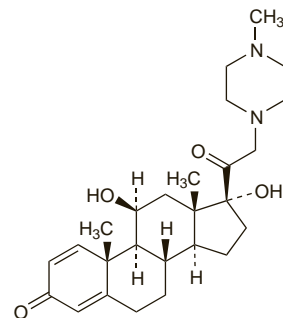
**Arg.:** Alex; Lopred; Lotemax; Lotesoft; **Braz.:** Alex†; **Ger.:** Lotemax; **Gr.:** Lotemax; **Hong Kong:** Lotemax; **India:** Loteflam†; **Ital.:** Lotemax; **Mex.:** Loterex; **Singapore:** Lotemax; **UK:** Lotemax; **USA:** Alex†; Lotemax†; **Venez.:** Lotesoft.

**Multi-ingredient:** **Arg.:** Lotemycin.

#### Mazipredone (rINN) ⓧ

Mazipredona; Mazipredone; Mazipredonum. 11 $\beta$ ,17-Dihydroxy-21-(4-methyl-1-piperazinyl)pregna-1,4-diene-3,20-dione.

МАЗИПРЕДОН C<sub>26</sub>H<sub>38</sub>N<sub>2</sub>O<sub>4</sub> = 442.6. CAS — 13085-08-0.



#### Profile

Mazipredone is a corticosteroid used topically for its glucocorticoid activity (p.1490). It is used as the hydrochloride with miconazole in the treatment of fungal infections of the skin.

When applied topically, particularly to large areas, when the skin is broken, or under occlusive dressings, corticosteroids may be absorbed in sufficient amounts to cause systemic effects (p.1490). The effects of topical corticosteroids on the skin are

described on p.1492. For recommendations concerning the correct use of corticosteroids on the skin, see p.1497.

### Preparations

**Proprietary Preparations** (details are given in Part 3)

**Cz.:** Depersolon†; **Hung.:** Depersolon†.

**Multi-ingredient:** **Cz.:** Mycosolon†; **Hung.:** Mycosolon; **Pol.:** Mycosolon; **Rus.:** Mycosolon (Микозолон).

### Medrysone (USAN, pINN) ⊗

11β-Hydroxy-6α-methylprogesterone; Medrisona; Médrysone; Medrysonum; NSC-63278; U-8471. 11β-Hydroxy-6α-methylpregn-4-ene-3,20-dione.

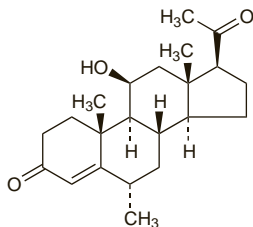
Медризон

$C_{22}H_{32}O_3 = 344.5$ .

**CAS** — 2668-66-8.

**ATC** — S01BA08.

**ATC Vet** — Q501BA08.



### Profile

Medrysone is a corticosteroid used for its glucocorticoid activity (see p.1490) in the topical treatment of allergic and inflammatory conditions of the eye. It is usually given as 1% eye drops.

Prolonged use of ophthalmic preparations containing corticosteroids has caused raised intra-ocular pressure and reduced visual function.

### Preparations

**Proprietary Preparations** (details are given in Part 3)

**Austral.:** HIMS†; **Port.:** Medrisol†; **USA:** HIMS†.

### Meprednisone (USAN, rINN) ⊗

Meprednisona; Méprednisone; Meprednisonum; 16β-Methylprednisone; NSC-527579; Sch-4358. 17α,21-Dihydroxy-16β-methylpregna-1,4-diene-3,11,20-trione.

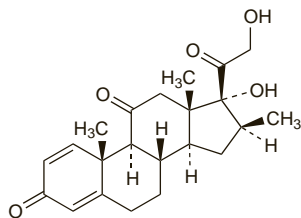
Мепреднизон

$C_{22}H_{28}O_5 = 372.5$ .

**CAS** — 1247-42-3.

**ATC** — H02AB15.

**ATC Vet** — QH02AB15.



**Pharmacopoeias.** In *US*.

**USP 31** (Meprednisone). Store in airtight containers at a temperature not exceeding 40°. Protect from light.

### Profile

Meprednisone is a corticosteroid with mainly glucocorticoid activity (p.1490). It has been given orally as either the free alcohol or the acetate and by injection as the sodium hemisuccinate.

### Preparations

**Proprietary Preparations** (details are given in Part 3)

**Arg.:** Cortipyrén B; Deltisona B; Latisona B; Prednisonal; Prenolone; Rupe-sonia B; **Mex.:** Lectan.

### Methylprednisolone (BAN, rINN) ⊗

Meilprednizolon; Methylprednisolon; Méthylprednisolone; 6α-Methylprednisolone; Methylprednisolonum; Metilprednisolona; Metilprednizolon; Metilprednizolonas; Metylprednisolon; Metyliprednisoloni; NSC-19987. 11β,17α,21-Trihydroxy-6α-methylpregna-1,4-diene-3,20-dione.

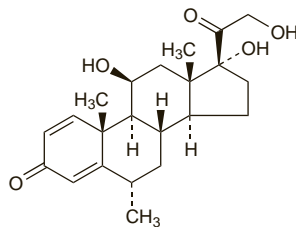
Метилпреднизолон

$C_{22}H_{30}O_5 = 374.5$ .

**CAS** — 83-43-2.

**ATC** — D07AA01; H02AB04.

**ATC Vet** — QD07AA01; QD10AA02; QH02AB04.



**Pharmacopoeias.** In *Eur.* (see p.vii), *Jpn.* and *US*.

**Ph. Eur. 6.2** (Methylprednisolone). A white or almost white, crystalline powder. It shows polymorphism. Practically insoluble in water; sparingly soluble in alcohol; slightly soluble in acetone and in dichloromethane. Protect from light.

**USP 31** (Methylprednisolone). A white to practically white, odourless, crystalline powder. Practically insoluble in water; soluble 1 in 100 of alcohol, and in 1 in 800 of chloroform and of ether; slightly soluble in acetone; sparingly soluble in dioxan and in methyl alcohol. Store in airtight containers. Protect from light.

### Methylprednisolone Acetate (BANM, rINN) ⊗

Acetato de metilprednisolona; Methylprednisolon-acetát; Méthylprednisolone, acétate de; Methylprednisoloni acetat; Metilprednizolon Asetat; Metilprednizolon-acetát; Metilprednizolon acetatas; Metylprednisolonacetat; Metyliprednisolonia-setaati. Methylprednisolone 21-acetate.

Метилпреднизолон Ацетат

$C_{24}H_{32}O_6 = 416.5$ .

**CAS** — 53-36-1.

**ATC** — D07AA01; H02AB04.

**ATC Vet** — QD07AA01; QH02AB04.

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

**Ph. Eur. 6.2** (Methylprednisolone Acetate). A white or almost white, crystalline powder. Practically insoluble in water; sparingly soluble in alcohol and in acetone. Protect from light.

**USP 31** (Methylprednisolone Acetate). A white or practically white, odourless, crystalline powder. Soluble 1 in 1500 of water, 1 in 400 of alcohol, 1 in 250 of chloroform, and 1 in 1500 of ether; sparingly soluble in acetone and in methyl alcohol; soluble in dioxan. Store in airtight containers at a temperature of 25°, excursions permitted between 15° and 30°. Protect from light.

### Methylprednisolone Hydrogen Succinate

(BANM, rINN) ⊗

Hydrogenosuccinato de metilprednisolona; Methylprednisolone Hemisuccinate; Méthylprednisolone, Hémisuccinate de; Méthylprednisolone, Hydrogénosuccinate de; Methylprednisolon-hydrogen-sukcinát; Methylprednisoloni Hemisuccinas; Methylprednisoloni hydrogenosuccinas; Metilprednizolon-hidrogén-sukcinát; Metilprednizolon-vandenilio sukcinatas; Metylprednisoloni-vätesuccinat; Metyliprednisoloni-vetyksuinaatti. Methylprednisolone 21-(hydrogen succinate).

Метилпреднизолон Гемисукцинат

$C_{26}H_{34}O_8 = 474.5$ .

**CAS** — 2921-57-5.

**ATC** — D07AA01; H02AB04.

**ATC Vet** — QD07AA01; QH02AB04.

**Pharmacopoeias.** In *Eur.* (see p.vii), *Jpn.* and *US*.

**Ph. Eur. 6.2** (Methylprednisolone Hydrogen Succinate). A white or almost white, hygroscopic powder. Practically insoluble in water; slightly soluble in dehydrated alcohol and in acetone; dissolves in dilute solutions of alkali hydroxides. Store in airtight containers. Protect from light.

**USP 31** (Methylprednisolone Hemisuccinate). A white or nearly white, odourless or nearly odourless, hygroscopic solid. Very slightly soluble in water; freely soluble in alcohol; soluble in acetone. Store in airtight containers.

### Methylprednisolone Sodium Succinate

(BANM, rINN) ⊗

Methylprednisolone Sodium Hemisuccinate; Méthylprednisolone, Succinate Sodique de; Methylprednisoloni Natrii Succinas; Metilprednizolon Sodyum Süksinat; Succinato sódico de metilprednisolona. Methylprednisolone 21-(sodium succinate).

Метилпреднизолон Натрия Сукцинат

$C_{26}H_{33}NaO_8 = 496.5$ .

**CAS** — 2375-03-3.

**ATC** — D07AA01; H02AB04.

**ATC Vet** — QD07AA01; QH02AB04.

**Pharmacopoeias.** In *US*.

**USP 31** (Methylprednisolone Sodium Succinate). A white or nearly white, odourless, hygroscopic, amorphous solid. Soluble

1 in 1.5 of water and 1 in 12 of alcohol; very slightly soluble in acetone; insoluble in chloroform and in ether. Store in airtight containers. Protect from light.

**Stability.** Methylprednisolone sodium succinate injection (*Solu-Medrol*, *USA*) was considered to be stable for 7 days when diluted in water for injection and stored in glass vials at 4°. When stored under similar conditions at 22°, it was considered to be stable for 24 hours.<sup>1</sup> The manufacturers state that the prepared solution should be stored at 20 to 25° and used within 48 hours of mixing.

1. Nahata MC, *et al.* Stability of diluted methylprednisolone sodium succinate injection at two temperatures. *Am J Hosp Pharm* 1994; **51**: 2157-9.

### Adverse Effects, Treatment, Withdrawal, and Precautions

As for corticosteroids in general (see p.1490). Rapid intravenous injection of large doses has been associated with cardiovascular collapse.

Methylprednisolone may be slightly less likely than prednisolone to cause sodium and water retention.

When applied topically, particularly to large areas, when the skin is broken, or under occlusive dressings, corticosteroids may be absorbed in sufficient amounts to cause systemic effects.

◊ References to various adverse effects associated with intravenous methylprednisolone in high-dose pulse therapy<sup>1-11</sup> and to adverse effects after intra-articular<sup>12,13</sup> and intranasal injection.<sup>14</sup> Epidural dosage (or more particularly inadvertent intrathecal dosage during attempted epidural placement) may be associated with serious adverse effects including arachnoiditis and aseptic meningitis, although the degree of risk is uncertain.<sup>15</sup>

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- Black DM, Filak AT. Hyperglycemia with non-insulin-dependent diabetes following intra-articular steroid injection. *J Fam Pract* 1989; **28**: 462-3.
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- Johns KJ, Chandra SR. Visual loss following intranasal corticosteroid injection. *JAMA* 1989; **261**: 2413.
- Rodgers PT, Connelly JF. Epidural administration of methylprednisolone for back pain. *Am J Hosp Pharm* 1994; **51**: 2789-90.

### Interactions

The interactions of corticosteroids in general are described on p.1494.

### Pharmacokinetics

For a brief outline of the pharmacokinetics of corticosteroids, see p.1495.

Methylprednisolone is fairly rapidly distributed after oral doses, with a plasma half-life of 3.5 hours or more. The tissue half-life is reported to range from 18 to 36 hours.

Methylprednisolone acetate is absorbed from joints over a week but is more slowly absorbed following deep intramuscular injection. The sodium succinate ester is rapidly absorbed after intramuscular doses, with peak plasma concentrations obtained in 2 hours.

Methylprednisolone crosses the placenta.

◊ References.

- Tornatore KM, *et al.* Repeated assessment of methylprednisolone pharmacokinetics during chronic immunosuppression in renal transplant recipients. *Ann Pharmacother* 1995; **29**: 120-4.
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- Tornatore KM, *et al.* Pharmacokinetics and pharmacodynamic response of methylprednisolone in premenopausal renal transplant recipients. *J Clin Pharmacol* 2004; **44**: 1003-11.