etoposide pharmacology

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Although it is detectable in CSF and intracerebral tumors, the concentrations are lower than in extracerebral tumors and in plasma. Search PubMed clinical trials. Recommended articles Citing articles 0. Etoposide enters the CSF poorly. The secretion of etoposide into saliva may be of concern if we consider that perioxidases in salivary glands are able to oxidize the drug leading to free radicals. The mechanism of action is believed to be the same as that of etoposide. Two different dose-dependent responses are seen. AUC values were In addition, O-demethylation of the dimethoxyphenol ring occurs through the CYP 3A4 isoenzyme pathway to produce the corresponding catechol. Etoposide has been shown to cause metaphase arrest in chick fibroblasts. Etoposide binding ratio correlates directly with serum albumin in patients with cancer and in normal volunteers. Search UniChem for chemicals with the same backbone. In four of these patients we also monitored etoposide salivary excretion and found saliva to plasma ratios in the range 0. Twelve patients were treated with high-dose etoposide given alone or in combination with cisplatin during a clinical trial.FDA Pharmacology Summary from FDA Pharm Classes. Etoposide is a semisynthetic derivative of podophyllotoxin, a substance extracted from the mandrake root Podophyllum peltatum. Possessing potent antineoplastic properties, etoposide binds to and inhibits topoisomerase II and its function in ligating cleaved DNA PubChem CID?: ? The clinical pharmacology of etoposide: an update. Simon Joel. x. Simon Joel. Search for articles by this author. ICRF Department of Medical Oncology, St Bartholomew's Hospital, London, U. K.. PlumX Metrics. Citations. Citation Indexes: see details. DOI: rubeninorchids.com(96)X. Etoposide Pharmacology. Kenneth R. Hande. Etoposide, a podophyllotoxin derivative, has demon- strated antitumor efficacy in a number of human malig- nancies, including lymphomas, germinal tumors, and lung cancer (especially small cell). Etoposide's antineo- plastic activity is achieved through DNA strand breakage. Jan 1, - Abstract. Etoposide, a semisynthetic derivative of podophyllotoxin, is increasingly used to treat cancer. Etoposide is a phase-specific, cytotoxic drug acting in the late S and early G2 phases of the cell cycle. It appears to cause breaks in DNA by either an interaction with DNA-topoisomerase II or the formation. Jump to Pharmacology - Pharmacology[edit]Trade names?: ?Etopophos, Toposar, others. Pharmacology. Metabolism: liver; CYP 3A4 substrate; UGT: substrate (enzymes not defined). Excretion: urine 56% (45% unchanged), feces 44%; Half-life: h. Subclass: Mitosis Inhibitors 2: Topoisomerase Inhibitors. Mechanism of Action affects cell cycle G2, lysing cells entering mitosis and inhibiting cells from. Etoposide, an effective agent for acute lymphoblastic leukemia (ALL), can cause secondary acute myeloid leukemia (AML) in a subset of patients. Our objectives were to determine whether patients who develop secondary AML displayed altered etoposide pharmacokinetics or other pharmacologic characteristics compared. Nov 4, - Etoposide and teniposide are semisynthetic derivatives of podophyllotoxin and are increasingly used in cancer medicine. Teniposide is more highly protein-bound than etoposide, and its uptake and binding to cells is also greater. Etoposide and teniposide are phase-specific cytotoxic drugs acting in the. Twelve patients were treated with high-dose etoposide given alone or in combination with cisplatin during a clinical trial. We had previously observed, in some subjects who received a combination of high-dose etoposide (mg/m2/day ? 5 days) and cisplatin (40 mg/m2/day ? 5 days), delayed hematological recovery after. Etoposide Administration schedule Cancer pharmacology Bioavailability Pharmacodynamics Pharmacokinetics. ABSTRACT. Etoposide is a drug whose antineoplastic activity is dependent on the schedule of drug administration. This article reviews the rationale for a prolonged schedule of etoposide administration.