

AUTHORIZED BY: ISSUE DATE:	CPC Quality of Care Committee October 2022	REVISION DATE: March 2023
CATEGORY: TITLE:	ACP/PCP Medications <b>DEXAMETHASONE</b>	PAGE: 1 of 2
Other Names:	Decadron	
Classifications:	Corticosteroid	
Pharmacodynamics	potential. It decreases inflammation by decreased production of inflammatory capillary permeability; suppresses norm induces apoptosis in multiple myeloma antiemetic activity is unknown. As a glucocorticoid, dexamethasone is	v suppression of neutrophil migration, mediators, and reversal of increased nal immune response. Dexamethasone cells. Dexamethasone's mechanism of an agonist of the glucocorticoid receptor ver the mineralocorticoid receptor (MR),
Onset:	PO : ~ 30 minutes IM : ~ 5 – 15 minutes IV : Rapid	
Peak:	PO : ~ 1-2 hours IM : ~ 10-30 minutes IV : ~ 5-10 minutes	
Duration:	<ul> <li>4-6 hours</li> <li>The half-life of dexamethasone aft intravenous dose was approximate to 6-8 hours in the elderly</li> </ul>	er either an 8 mg oral dose or ely 1-5 hours and may be extended
Indications:	<ul> <li>AND</li> <li>Barking cough or recent history of Respiratory distress</li> <li>Hx. of asthma OR</li> <li>COPD OR 20 pack/year history of</li> <li>For short-term emergency cortico</li> <li>Situations when a rapid and inten shock, hypersensitivity reactions, transplants, cerebral edema, hype</li> <li>Antiemetic for chemotherapy-indu</li> <li>Multiple Sclerosis (Acute Exacerba Cerebral Edema</li> <li>Shock</li> <li>Allergic Conditions</li> <li>Multiple Myeloma</li> </ul>	smoking osteroid therapy. se hormonal effect is desired, e.g., status asthmaticus, organ ercalcemia, bacterial meningitis. uced nausea and vomiting.
Contraindications:	<ul><li>COVID-19 Disease</li><li>Allergy or sensitivity to steroids.</li></ul>	
contraindications:	<ul> <li>Allergy of sensitivity to steroids.</li> <li>Currently on PO or parenteral ster</li> </ul>	roids
Precautions:	DEXAMETHASONE is not recomme	ended for use during pregnancy

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Adverse Reactions:	<ul> <li>Hypersensitivity: anaphylactoid reactions, anaphylaxis, angioedema, urticaria</li> <li>IV related reactions: burning and tingling in the perineal area may</li> </ul>
	occur with rapid IV injections; slowing down may reduce the occurrence.
	<ul> <li>GI: peptic ulcer, perforation, hemorrhage, nausea, pancreatitis, abdominal distension, increased appetite.</li> </ul>
	CNS: mental disturbances (euphoria, mood swings, depression,
	<ul> <li>personality changes, psychoses), insomnia, headache, vertigo.</li> <li>Dermatologic: hypo- or hyper-pigmentation, bruising, scarring,</li> </ul>
	<ul><li>induration, and sterile abscess.</li><li>Electrolyte disturbances: hypokalemia.</li></ul>
	<ul> <li>Endocrine and metabolic: hyperglycemia.</li> </ul>
	Ophthalmic: increased intraocular pressure.
	Immunosuppression
Drug Interaction:	Antibiotics: Erythromycin
	<ul> <li>Antifungal: Ketoconazole, Itraconazole, Pasaconazole, Voriconazole</li> <li>Blood thinners: Apixaban, Rivaroxaban, Warfarin</li> </ul>
	Cholesterol drugs: Cholestyramine, Colesevelam, Colestipol
	Cushing's Syndrome drugs: Aminoglutethimide
	<ul> <li>Diabetes drugs: Pramlintide, Metformin</li> </ul>
	Diuretics: Bumetanide, Furosemide, Hydrochlorothiazide
	Epilepsy drugs: Phenytoin, Fosphenytoin, Phenobarbital,
	Carbamazepine
	<ul><li>Heart drugs: Digoxin</li><li>Hormones: Estrogen, Oral Contraceptives</li></ul>
	<ul> <li>HIV drugs: Atazanavir, Darunavir, Fosamprenavir, Indinavir</li> </ul>
	<ul> <li>NSAIDs: Aspirin, Ibuprofen, Indomethacin, Naproxen</li> </ul>
	Tuberculosis drugs: Rifampin, Rifabutin, Rifapentine
	<ul> <li>Vaccines: Measles, Mumps, and Rubella, Intranasal flu, Smallpox, Chickenpox, Rotavirus, Yellow Fever, Typhoid</li> </ul>
Clinical & Special	• Dosage is 0.5mg/kg to a maximum single dosage of 8mg.
Considerations:	EPINEPHERine and Salbutamol take priority over the
	administration of Dexamethasone.
	<ul> <li>Administration is in conjunction with Salbutamol and patients requiring ventilator support or CPAP.</li> </ul>
	<ul> <li>EPINEPHRine should be the 1st medication administered if the</li> </ul>
	<ul><li>patient is apneic</li><li>Dexamethasone admin in Croup patients is via PO only.</li></ul>
Image & Preparations:	0.5mg/kg to a maximum 8mg
References:	The Ottawa Hospital Parental Drug Therapy Manual
Kerer ences.	<ul> <li>Lexicomp 2020 <u>http://online.lexi.com</u></li> </ul>
	<ul> <li>Compendium of Pharmaceuticals and Specialties 2022(CPS)</li> </ul>
	<ul> <li>https://www.medicalnewstoday.com/articles/322409#interactions</li> </ul>
	<u>https://www.e-therapeutics.ca/search</u>
	<u>https://www.pharmacists.ca/rxtx/en/contact-us/</u>
	<ul> <li><u>https://reference.medscape.com/drug/decadron-dexamethasone-</u> intensol-dexamethasone-342741</li> </ul>
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<u>NOTE</u>: The information contained herein does not supersede or negate the MoHLTC Provincial Advanced Life Support Patient Care Standards and should only serve as general information about the medication itself. For medication dosages, please refer to the current version of the Ontario Provincial ALS Patient Care Standards.