OMALIZUMAB - FLASH CARD

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Mechanism of Action - Recombinant murine derived humanized	Contra-indication - Hypersensitivity to Omalizumab
monoclonal antibody targeting human Immunoglobulin E (IgE)	 SPECIAL CONSIDERATIONS No dose adjustment required in cases of renal or liver impairment Can be given in Elderly and children >12 years Pregnancy – Cat B drug (benefits outweigh risk) Lactation – not much studies. Not advisable.
Indications <u>FDA approved</u> - Chronic spontaneous urticaria	
<u>Off-1abel</u> - Chronic inducible urticaria: CINDU - Bullous pemphigoid - Mastocytosis	
 Urticarial vasculitis Atopic dermatitis Kimura's disease Hyper IgE syndrome 	Adverse effects - Injection site reactions - Viral infections - Nasopharyngitis
 Dosage Chronic urticaria - Administer omalizumab 300 mg every four weeks . 150 mg every four weeks can also be given . Discontinuation of this molecule does 	 Upper respiratory tract infection Sinusitis and Headache are common. Anaphylaxis has been noted in about 0.2% of patients.
 not cause rebound of free IgE; Total IgE levels gradually returns to baseline levels within a year. Mode of administration: Subcutaneous. Omalizumab should only be administered by a physician or trained health care professional in a setting where any episode of anaphylaxis can be managed. An observation period of 2 hours for the first three injections and 30 minutes for subsequent injections has been recommended to watch for 	 Pre work-up Complete blood count and hemogram Erythrocyte sedimentation rate or C-reactive protein Liver function test Renal function test and urinalysis Serum electrolytes Anti-nuclear and anti-dsDNA antibodies Screening for hepatitis and HIV infection (Tuberculosis screening/ Serum IgE are not mandatory)
features of anaphylaxis. Reconstitution:	Monitoring - Platelet count
 1.4 ml of water for injection needs to be reconstituted with the lyophilised powder to form 1.2 ml viscous solution containing 150mg of Omalizumab. It takes 15 to 20 min to dissolve completely. 	 Availability and average cost 150 mg lyophilised powder for reconstitution in single dose vial and 150mg/ml single dose prefilled syringes. 8000 to 11000 Rs per vial