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Presentation Outline

- General Use of Immunosuppressive Drugs:
- When should I use immunosuppressives? (indications/disease processes)
- How should I monitor patients on them and taper immunosuppressives?
- When shouldn't I use them? (contraindications)
- Getting to Know the Major Players:
- Drug-specific dosing and formulations
- Evidence-based indications
- Drug-specific side effects and monitoring strategies



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Im	imunosuppress	ive Drug Use: Indica	tions	
Au	toimmune Disease			
• [ИНА	• PF, PV, DLE, SLO, vasculitis		
• 17	Р	 Polymyositis, MMM, N 	ЛG	
• 11	ИРА	• SRMA, GME, MUE		
• 11	ИN	• UVD, KCS		
• P	LN/ICGN	 Stomatitis 	Da Con	
• P	IMA/PRCA		AUTOIMMUNE	





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Immunosuppressive Drug Use: Goals



Timing

- After diagnosis is achieved!
- Collect samples and complete work-up • Immunosuppressive drugs have risks
- Steroids impact test results
- Achieve remission
- Clinical
- +/- Diagnostic
- Ideal vs reality case-specific considerations

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Glucocorticoids	
Pros	Cons
 Fast and effective GCRs are ubiquitous Prolonged effects Predictable dosing Inexpensive \$ 	 High rate of significant side effects PU/PD, +/- urinary incontinence Polyphagia Panting Muscle mass loss Behavior changes Haircoat/skin changes
Side Effects Of Predictioner • revased reporter • revased revased reporter • revased revase	• Gl ulceration • Insulin resistance • CHF • Hypercoagulability • Need to taper
Insulin changes Suppressed immune system (risk of infection) Agitation	Cornell University Veterinary Speciali











Drug Interactions	710174		
Cytochromo P450 onzyma	TABLE 1. Important Drugs That Affect Cyclosporine Concentrations in Blood		
metabolism	DRUG TYPE	MAY INCREASE CYCLOSPORINE CONCENTRATION	MAY DECREASE CYCLOSPORINE CONCENTRATION
 Inhibitors → increase CsA Inducers → decease CsA 	Antibacterials	Azithromycin Enrofloxacin Chloramphenicol Erythromycin Ciprofloxacin Imipenem Clarithromycin Metronidazole	Clindamycin Sulfadiazine Trimethoprim
	Antifungals	Fluconazole Ketoconazole Itraconazole	Terbinafine
	Gastroprokinetics Gastroprotectants	Cimetidine Metoclopramide Cisapride Omeprazole	Famotidine
	Other Drugs	Calcium channel blockers Digoxin (cardiac glycoside) Estrogens (hormone) Flavonoids in grapefruit juice	Azathioprine (immunosuppressive) Phenobarbital (anticonvulsant) Phenytoin (anticonvulsant) Cyclophosphamide (chemotherapeuti

















