

MOAs	
Ibuprofen	1st Generation Non-Selective COX-1 Inhibitor
Aspirin	Nonselective, irreversible COX-1 Inhibitor
Acetaminophen	Centrally Acting
Celecoxib	2nd Generation COX-2 Inhibitor
Prednisone	Glucocorticoid
Penicillin G (Penicillin)	Inhibits cell wall synthesis by binding to PBPs
Vancomycin (Misc.)	Inhibits cell wall synthesis
Gentamycin (Aminoglycoside)	Inhibits protein synthesis
Erythromycin (Macrolide)	Inhibits protein synthesis
Ciprofloxacin (Quinolones)	Inhibits bacterial DNA enzymes
Tetracycline (Tetracycline)	Inhibits protein synthesis
Cephalexin (Cephalosporin)	Inhibits cell wall synthesis by binding to PBPs
Sulfamethoxazole/Trimethoprim (Sulfonamide)	Inhibits folic acid synthesis

MOAs (cont)	
Morphine	Bind to opioid receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain; CNS Depression
Hydromorphone	Bind to opioid receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain; CNS Depression
Fentanyl	Bind to opioid receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain; CNS Depression
Codeine	Bind with opiate receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain
Oxycodone	Bind with opiate receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain

MOAs (cont)	
Naloxone	Opioid Antagonist
Tramadol	Inhibit serotonin/norepinephrine reuptake
Acetaminophen	Centrally Acting
ADR	
Ibuprofen	Gastric ulcers, GI upset/bleeding, BB: CVA, MI,
Aspirin	GI upset, tinnitus, reyes syndrome, salt/water retention
Acetaminophen	Hepatotoxicity
Celecoxib	MI, CVA, ulcers, GI bleeding, impaired renal function
Prednisone	sudden weight gain (Cushing's Syndrome), sepsis, hyperglycemia, osteoporosis, cataracts, addison's disease
Penicillin G (Penicillin)	Hypersensitivity, GI upset (nausea, vomiting, diarrhea), superinfections, anaphylaxis, caution for kidney function
Vancomycin (Misc.)	Nephrotoxicity, Ototoxicity, Red Man Syndrome, Thrombophlebitis



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ADR (cont)		ADR (cont)		ADR (cont)	
Gentamycin (Aminoglycoside)	Nephrotoxicity, ototoxicity, nausea/vomiting/diarrhea, heart palpitations, hypersensitivity	Morphine	Respiratory Depression, Addiction, misuse, abuse, orthostatic hypotension, sedation, neurotoxicity, constipation, urinary retention, emesis, cough suppression, elevation of intracranial pressure	Codeine (same but less severe)	Respiratory Depression, Addiction, misuse, abuse, orthostatic hypotension, sedation, neurotoxicity, constipation, urinary retention, emesis, cough suppression, elevation of intracranial pressure
Erythromycin (Macrolide)	QT Prolongation, sudden cardiac death, superinfection, GI upset, CLOG	Hydromorphone	Respiratory Depression, Addiction, misuse, abuse, orthostatic hypotension, sedation, neurotoxicity, constipation, urinary retention, emesis, cough suppression, elevation of intracranial pressure	Oxycodone (same but less severe)	Respiratory Depression, Addiction, misuse, abuse, orthostatic hypotension, sedation, neurotoxicity, constipation, urinary retention, emesis, cough suppression, elevation of intracranial pressure
Ciprofloxacin (Quinole)	QT Prolongation, tendinitis, tendon rupture, nausea, vomiting, diarrhea			Naloxone (Narcan)	aggression, withdrawal
Tetracycline (Tetracyclines)	Teeth discoloration, photosensitivity, superinfection, weakening of skeletal structure, GI upset	Fentanyl	Respiratory Depression, Addiction, misuse, abuse, orthostatic hypotension, sedation, neurotoxicity, constipation, urinary retention, emesis, cough suppression, elevation of intracranial pressure	Tramadol	suicide, depression
Cephalexin (Cephalosporins)	Hypersensitivity, bleeding, thrombophlebitis, hemolytic anemia, superinfections (C. Diff)			Acetaminophen	hepatotoxicity
Sulfamethoxazole/Trimethoprim (Sulfonamide)	Steven Johnson Syndrome, hypersensitivity, hyperkalemia, hemolytic anemia, kernicterus, renal damage			Nursing Implications	
				Ibuprofen	
				Aspirin	
				Acetaminophen	
				Celecoxib	
				Prednisone	
				Penicillin G (Penicillin)	
				Vancomycin (Misc.)	
				Gentamycin (Aminoglycoside)	
				Erythromycin (Macrolide)	
				Ciprofloxacin (Quinole)	



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Nursing Implications (cont)
Tetracycline (Tetracyclines)
Cephalexin (Cephalosporin)
Sulfamethoxazole/Trimethoprim (Sulfonamide)
Morphine
Hydromorphone
Fentanyl
Codeine
Oxycodone
Naloxone
Tramadol
Acetaminophen

Nursing Implications
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