

MOAs		MOAs (cont)		MOAs (cont)	
Ibuprofen	1st Generation Non-Selective COX-1 Inhibitor	Morphine	Bind to opioid receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain; CNS Depression	Naloxone	Opioid Antagonist
Aspirin	Nonselective, irreversible COX-1 Inhibitor			Tramadol	Inhibit serotonin/norepinephrine reuptake
Acetaminophen	Centrally Acting	Hydromorphone	Bind to opioid receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain; CNS Depression	Acetaminophen	Centrally Acting
Celecoxib	2nd Generation COX-2 Inhibitor			ADR	
Prednisone	Glucocorticoid	Fentanyl	Bind to opioid receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain; CNS Depression	Ibuprofen	Gastric ulcers, GI upset/bleeding, BB: CVA, MI,
Penicillin G (Penicillin)	Inhibits cell wall synthesis by binding to PBPs			Aspirin	GI upset, tinnitus, Reyes syndrome, salt/water retention
Vancomycin (Misc.)	Inhibits cell wall synthesis	Codeine	Bind with opiate receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain	Acetaminophen	Hepatotoxicity
Gentamycin (Aminoglycoside)	Inhibits protein synthesis	Oxycodone	Bind with opiate receptors in the CNS which inhibits ascending pain pathways, altering perception of and response to pain	Celecoxib	MI, CVA, ulcers, GI bleeding, impaired renal function
Erythromycin (Macrolide)	Inhibits protein synthesis			Prednisone	sudden weight gain (Cushing's Syndrome), sepsis, hyperglycemia, osteoporosis, cataracts, Addison's disease
Ciprofloxacin (Quinolones)	Inhibits bacterial DNA enzymes			Penicillin G (Penicillin)	Hypersensitivity, GI upset (nausea, vomiting, diarrhea), superinfections, anaphylaxis, caution for kidney function
Tetracycline (Tetracycline)	Inhibits protein synthesis			Vancomycin (Misc.)	Nephrotoxicity, Ototoxicity, Red Man Syndrome, Thrombophlebitis
Cephalexin (Cephalosporin)	Inhibits cell wall synthesis by binding to PBPs				
Sulfamethoxazole/Trimethoprim (Sulfonamide)	Inhibits folic acid synthesis				



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ADR (cont)

Gentamycin (Aminoglycoside) **Nephrotoxicity, ototoxicity,** nausea/vomiting/diarrhea, heart palpitations, hypersensitivity

Erythromycin (Macrolide) **QT Prolongation,** sudden cardiac death, superinfection, GI upset, CLOG

Ciprofloxacin (Quinole) **QT Prolongation,** tendinitis, **tendon rupture,** nausea, vomiting, diarrhea

Tetracycline (Tetracyclines) **Teeth discoloration,** photosensitivity, superinfection, weakening of skeletal structure, GI upset

Cephalexin (Cephalosporins) Hypersensitivity, bleeding, thrombophlebitis, hemolytic anemia, superinfections (C. Diff)

Sulfamethoxazole/Trimethoprim (Sulfonamide) **Steven Johnson Syndrome,** hypersensitivity, hyperkalemia, hemolytic anemia, kernicterus, renal damage

ADR (cont)

Morphine **Respiratory Depression,** Addiction, misuse, abuse, orthostatic hypotension, sedation, neurotoxicity, constipation, urinary retention, emesis, cough suppression, elevation of intracranial pressure

Hydromorphone **Respiratory Depression,** Addiction, misuse, abuse, orthostatic hypotension, sedation, neurotoxicity, constipation, urinary retention, emesis, cough suppression, elevation of intracranial pressure

Fentanyl **Respiratory Depression,** Addiction, misuse, abuse, orthostatic hypotension, sedation, neurotoxicity, constipation, urinary retention, emesis, cough suppression, elevation of intracranial pressure

ADR (cont)

Codeine (same but less severe) **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

Naloxone (Narcan) aggression, withdrawal

Tramadol suicide, depression

Acetaminophen hepatotoxicity

Nursing Implications

Ibuprofen

Aspirin

Acetaminophen

Celecoxib

Prednisone

Penicillin G (Penicillin)

Vancomycin (Misc.)

Gentamycin (Aminoglycoside)

Erythromycin (Macrolide)

Ciprofloxacin (Quinole)



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Nursing Implications
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Gentamycin (Aminoglycoside)
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Ciprofloxacin (Quinole)
Tetracycline (Tetracyclines)
Cephalexin (Cephalosporin)
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Hydromorphone
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Oxycodone
Naloxone
Tramadol
Acetaminophen

Nursing Implications	
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Aspirin	.
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Celecoxib	.
Prednisone	.
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Erythromycin (Macrolide)	.
Ciprofloxacin (Quinole)	.
Tetracycline (Tetracyclines)	.
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Nursing Implications (cont)	
Cephalexin (Cephalosporin)	.
Sulfamethoxazole/Trimethoprim (Sulfonamide)	.
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Acetaminophen	.

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Nursing Implications	Nursing Implications (cont)	Nursing Implications
Ibuprofen .	Sulfamethoxazole/Trimethoprim (Sulfo- namide .	Ibuprofen .
Aspirin .	Morphine .	Aspirin .
Acetaminophen .	Hydromorphone .	Acetaminophen .
Celecoxib .	Fentanyl .	Celecoxib .
Prednisone .	Codeine .	Prednisone .
Penicillin G (Penicillin) .	Oxycodone .	Penicillin G (Penicillin) .
Vancomycin (Misc.) .	Naloxone .	Vancomycin (Misc.) .
Gentamycin (Aminoglycoside) .	Tramadol .	Gentamycin (Aminoglycoside) .
Erythromycin (Macrolide .	Acetaminophen .	Erythromycin (Macrolide .
Ciprofloxacin (Quinole) .		Ciprofloxacin (Quinole) .
Tetracycline (Tetracyclines .	Nursing Implications	Tetracycline (Tetracyclines .
Cephalexin (Cephalosporin) .	Ibuprofen .	Cephalexin (Cephalosporin) .
Sulfamethoxazole/Trimethoprim (Sulfo- namide .	Aspirin .	Sulfamethoxazole/Trimethoprim (Sulfo- namide .
Morphine .	Acetaminophen .	Morphine .
Hydromorphone .	Celecoxib .	Hydromorphone .
Fentanyl .	Prednisone .	Fentanyl .
Codeine .	Penicillin G (Penicillin) .	Codeine .
Oxycodone .	Vancomycin (Misc.) .	Oxycodone .
Naloxone .	Gentamycin (Aminoglycoside) .	Naloxone .
Tramadol .	Erythromycin (Macrolide .	Tramadol .
Acetaminophen .	Ciprofloxacin (Quinole) .	Acetaminophen .
	Tetracycline (Tetracyclines .	
Nursing Implications	Cephalexin (Cephalosporin) .	
Ibuprofen .	Sulfamethoxazole/Trimethoprim (Sulfo- namide .	
Aspirin .	Morphine .	
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