

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.)	<b>Nephrotoxicity, Ototoxicity, Red Man Syndrome, Thrombophlebitis</b>



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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 (cont)

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

### Nursing Implications

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

### Nursing Implications

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Aspirin
Acetaminophen
Celecoxib
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Penicillin G (Penicillin)
Vancomycin (Misc.)
Gentamycin (Aminoglycoside)
Erythromycin (Macrolide)
Ciprofloxacin (Quinole)
Tetracycline (Tetracyclines)
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### Nursing Implications (cont)

Cephalexin (Cephalosporin)
Sulfamethoxazole/Trimethoprim (Sulfonamide)
Morphine
Hydromorphone
Fentanyl
Codeine
Oxycodone
Naloxone
Tramadol
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 .
Penecillin G (Penecillin) .	Oxycodone .	Penecillin G (Penecillin) .
Vancomycin (Misc.) .	Naloxone .	Vancomycin (Misc.) .
Gentamycin (Aminoglycoside) .	Tramadol .	Gentamycin (Aminoglycoside) .
Erythromycin (Macrolide) .	Acetaminophen .	Erythromycin (Macrolide) .
Ciprofloxacin (Quinole) .		Ciprofloxacin (Quinole) .
Tetracycline (Tetracyclines) .	<b>Nursing Implications</b>	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 .	Penecillin G (Penecillin) .	Codeine .
Oxycodone .	Vancomycin (Misc.) .	Oxycodone .
Naloxone .	Gentamycin (Aminoglycoside) .	Naloxone .
Tramadol .	Erythromycin (Macrolide) .	Tramadol .
Acetaminophen .	Ciprofloxacin (Quinole) .	Acetaminophen .
	Tetracycline (Tetracyclines) .	
<b>Nursing Implications</b>	Cephalexin (Cephalosporin) .	
Ibuprofen .	Sulfamethoxazole/Trimethoprim (Sulfo- namide) .	
Aspirin .	Morphine .	
Acetaminophen .	Hydromorphone .	
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