

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



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| Nursing Implications                        |   |
|---|---|
| Ibuprofen                                   | . |
| Aspirin                                     | . |
| Acetaminophen                               | . |
| Celecoxib                                   | . |
| Prednisone                                  | . |
| Penecillin G (Penecillin)                   | . |
| 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         |   |
|------------------------------|---|
| Ibuprofen                    | . |
| Aspirin                      | . |
| Acetaminophen                | . |
| Celecoxib                    | . |
| Prednisone                   | . |
| Penecillin G (Penecillin)    | . |
| Vancomycin (Misc.)           | . |
| Gentamycin (Aminoglycoside)  | . |
| Erythromycin (Macrolide)     | . |
| Ciprofloxacin (Quinole)      | . |
| Tetracycline (Tetracyclines) | . |
| Cephalexin (Cephalosporin)   | . |

| Nursing Implications (cont)                 |   |
|---|---|
| Sulfamethoxazole/Trimethoprim (Sulfonamide) | . |
| Morphine                                    | . |
| Hydromorphone                               | . |
| Fentanyl                                    | . |
| Codeine                                     | . |
| Oxycodone                                   | . |
| Naloxone                                    | . |
| Tramadol                                    | . |
| Acetaminophen                               | . |

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



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