

# RESPIRATORY MEDICATION CARD

| I. BRONCHODILATORS   |                     |          |                  | A. Beta-Adrenergics (Sympathomimetics) |                                    |                                                                            |                                                    |
|----------------------|---------------------|----------|------------------|----------------------------------------|------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------|
| Generic Name         | Brand Name          | Route    | Typical Dose     | Freq.                                  | Side Effects                       | Comments                                                                   | Onset, Peak, Duration                              |
| Epinephrine          | Adrenalin           | Aerosol  | 0.25 - 0.5 mL    | PRN                                    | Increased HR                       | *Quick development of tolerance                                            | O - 3 - 5 min<br>P - 5 - 20 min<br>D - 1 - 3 hrs.  |
| Racemic Epinephrine  | Vaponefrin          | Aerosol  | 0.25 - 0.5 mL    | PRN                                    | Increased BP                       | *Ultra-short Duration (<3 hrs)                                             |                                                    |
| Epinephrine          | Micronephrine       | Aerosol  | 0.25 - 0.5 mL    | PRN                                    | Palpitations                       | *Common Uses: Post Extubation, Croup (α effects)                           | O - 3 - 5 min<br>P - 5 - 20 min<br>D - 0.5 - 2 hrs |
| Ephedrine            | Federal Bronchotabs | PO       | 15 - 50 mg       | PRN                                    | Nervousness                        | *Used in OTC Preps                                                         |                                                    |
|                      |                     |          |                  |                                        | Tremors                            | *Weak bronchodilator                                                       |                                                    |
|                      |                     |          |                  |                                        |                                    | *Used more for α effects                                                   |                                                    |
| Isoproterenol        | Isuprel             | Aerosol  | 0.25 - 0.5 mL    |                                        | Insomnia                           | *Ultra-short Duration (<3 hours)                                           | O - 2 - 5 min<br>P - 5 - 30 min<br>D - 0.5 - 2 hrs |
| Isoetharine          | Bronkosol           | Aerosol  | 0.25 - 0.5 mL    |                                        | Nausea                             | *Ultra-short Duration (<3 hours)                                           | O - 1 - 6 min<br>P - 15 - 60 min<br>D - 1 - 3 hrs  |
|                      | Dilabron            | MDI      | 2 Puffs          |                                        | Headache                           |                                                                            |                                                    |
|                      | Bronchaid           | PO       |                  |                                        |                                    |                                                                            |                                                    |
| Albuterol            | Ventolin            | Aerosol  | 0.5 mL or 2.5 mg | Q20° x 3 or 1°                         | Tolerance to bronchodilator effect | *Short Duration (4 - 6 hours)                                              | O - 15 min<br>P - 0.5 - 1 hr<br>D - 5 - 8 hrs      |
|                      | Proventil           | MDI      | 2 - 3 Puffs      | Cont. or Q2 - Q4°                      |                                    |                                                                            |                                                    |
|                      | Salbutamol          | PO       | 2 - 4 mg         |                                        |                                    |                                                                            |                                                    |
| Terbutaline          | Brethine            | Aerosol  | 0.5 mL           | Q6°                                    |                                    | *Short Duration (4 - 6 hours)                                              | O - 5 - 30 min<br>P - 0.5 - 1 hr<br>D - 3 - 6 hrs  |
|                      | Breathair           | MDI      | 2 Puffs          |                                        |                                    |                                                                            |                                                    |
|                      |                     | PO       | 2.5 - 5 mg       |                                        |                                    |                                                                            |                                                    |
|                      |                     | IV, SubQ | 0.5 mL           |                                        |                                    |                                                                            |                                                    |
| Bitolterol           | Tomalate            | MDI      | 2 Puffs          |                                        |                                    | *Short Duration (4 - 6 hours)                                              |                                                    |
| Levalbuterol         | Xopenex             | Aerosol  | 0.63 - 1.25 mg   | Q6°                                    |                                    | *Short Duration (4 - 6 hours)                                              | O - 15 min<br>P - 0.5 - 1 hr<br>D - 5 - 8 hrs      |
|                      |                     | MDI      | 2 Puffs          |                                        |                                    |                                                                            |                                                    |
| Pirbuterol           | Maxair              | MDI      | 2 Puffs          |                                        |                                    | *Short Duration (4 - 6 hours)                                              |                                                    |
| Salmeterol xinafoate | Serevent            | MDI      | 2 - 3 Puffs      | Q12°                                   |                                    | *Long Duration (12 hours)<br>*Maintenance Drug<br>*DO NOT USE IN EMERGENCY | O - 20 min<br>P - 3 - 5 hrs<br>D - 12 hrs          |
| Formoterol fumarate  | Foradil             | DPI      | 12 mcg capsule   | Q12°                                   |                                    | *Long Duration (12 hours)<br>*Maintenance Drug<br>*DO NOT USE IN EMERGENCY | O - 15 min<br>P - 0.5 - 1 hr<br>D - 12 hr          |
|                      | Brovana             | Aerosol  | 15 mcg           |                                        |                                    |                                                                            |                                                    |

| B. Anticholinergics (Parasympatholytic) Block Ach receptor |            |         |                                    |                                |                                                                 |                                                           |                                              |
|------------------------------------------------------------|------------|---------|------------------------------------|--------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|
| Generic Name                                               | Brand Name | Route   | Typical Dose                       | Freq.                          | Side Effects                                                    | Comments                                                  | Onset, Peak, Duration                        |
| Atropine                                                   |            | Aerosol | Depends on route of administration |                                | Increased HR<br>Increased BP<br>Palpitations                    | *Inhibits Vagal stimulation                               | Depends on route of administration           |
| Ipratropium bromide                                        | Atrovent   | Aerosol | 0.5 mg                             | Q20° x 3 or 1°<br>Cont. or Q4° | Blurred vision<br>Nervousness<br>Dry Mouth<br>Cough<br>Headache | *Atropine-like agent<br>*Adjunct to Beta-adrenergic Drugs | O - 15 min<br>P - 1 - 2 hrs<br>D - 4 - 6 hrs |
| Tiotropium Bromide                                         | Spiriva    | DPI     | 18 mcg capsule via DPI             | DAILY                          |                                                                 | *Long duration<br>*Once a day administration              | O - 30 min<br>P - 3 hrs<br>D - 24 hrs        |

| All Drug Combinations (Beta-Adrenergics, Anticholinergics & Anti-Inflammatories) |            |           |                                                         |         |               |                                                      |  |
|----------------------------------------------------------------------------------|------------|-----------|---------------------------------------------------------|---------|---------------|------------------------------------------------------|--|
| Generic Name                                                                     | Brand Name | Route     | Typical Dose                                            | Freq.   | Side Effects  | Comments                                             |  |
| Albuterol & Ipratropium                                                          | Duo-Neb    | Aerosol   | 0.5 mL Albuterol<br>0.5 mg Ipratropium                  | Q4 - 6° | Same as above | *Short duration (4 - 6 hrs.)                         |  |
| Same as above                                                                    | Combivent  | MDI       | 2 Puffs                                                 | Q4 - 6° | Same as above | Same as above                                        |  |
| Salmeterol & Fluticasone                                                         | Advair     | DP<br>MDI | 50 mcg Salmeterol & 100, 250 or 500 mcg Fluticasone     | Q12°    | Same as above | *Long duration (12 hrs.)<br>*DO NOT USE IN EMERGENCY |  |
| Formoterol & Budesonide                                                          | Symbicort  | MDI       | 4.5 or 8 mcg Formoterol & 80, 160 or 320 mcg Budesonide | Q12°    | Same as above | *Long Duration<br>*DO NOT USE IN EMERGENCY           |  |

| C. Xanthines (Methylxanthines) |                                     |                        |                                  |       |                                                    |                                                  |        |
|--------------------------------|-------------------------------------|------------------------|----------------------------------|-------|----------------------------------------------------|--------------------------------------------------|--------|
| Generic Name                   | Brand Name                          | Route                  | Typical Dose                     | Freq. | Side Effects                                       | Comments                                         |        |
| Theophylline                   | Theodur<br>Slo-Bid<br>Aminophylline | PO<br>Rectal<br>IV, IM | Dependent upon serum blood level |       | Nausea, Arrhythmias<br>Nervousness,<br>Tachycardia | *Must monitor serum blood levels (8 - 12 mcg/mL) | 15 mcg |

mometasone furoate / Duleta / MDI / 2 puffs / Q12

## II. Mucokinetics - Mucolytics

| Generic Name           | Brand Name | Route              | Typical Dose          | Freq.         | Side Effects              | Comments                                                                    |
|------------------------|------------|--------------------|-----------------------|---------------|---------------------------|-----------------------------------------------------------------------------|
| N-Acetylcysteine (NAC) | Mucomyst   | Aerosol<br>ET Tube | 1 - 4 mL<br>10% & 20% | TID or<br>QID | Nausea<br>Bronchospasm    | *Must be refig.<br>After opening<br>*MUST BE GIVEN<br>WITH B/D              |
| Dornase alfa           | Pulmozyme  | Aerosol            | 0.5 mg<br>2.5 mg      | DAILY         | Pharyngitis<br>Hoarseness | *Do Not mix with<br>other drugs or<br>dilute<br>*Hydrolyzes DNA<br>in mucus |
| Sodium<br>Bicarbonate  |            | Aerosol            | 2% solution           |               |                           | *Not commonly<br>used                                                       |

## III. Adrenocorticosteroids (Steroids)

| Generic Name               | Brand Name                         | Route           | Typical Dose                                                        | Freq.            | Side Effects                                | Comments           |
|----------------------------|------------------------------------|-----------------|---------------------------------------------------------------------|------------------|---------------------------------------------|--------------------|
| Beclo-methasone            | Vanceril, Qvar<br>Beclavent        | MDI             | 2 Puffs                                                             | Q12 <sup>h</sup> | Fungal<br>infections                        | *MUST HAVE         |
| Flunisolide                | Aerobid                            | MDI             | 2 Puffs                                                             | Q12 <sup>h</sup> |                                             | FT. RINSE          |
| Fluticasone<br>Propionate  | Flovent                            | MDI             | 2 Puffs<br>(110 or 220<br>strength)                                 | Q12 <sup>h</sup> | Hoarseness<br>Cough                         | AFTER USE          |
| Triamcinolone<br>acetonide | Azmacort                           | MDI             | 2 Puffs                                                             | Q12 <sup>h</sup> |                                             |                    |
| Budesonide                 | Pulmicort                          | Aerosol         | 0.5 mg                                                              | Q12 <sup>h</sup> |                                             |                    |
| Mometasone                 | Asmanex                            | DPI             | 2 - 4 mg                                                            | Q12 <sup>h</sup> | Headache                                    | *MUST RINSE        |
| Prednisone                 | Deltasone<br>Meticorten<br>Orasone | PO              | 5 - 60 mg<br>daily                                                  | Daily            | Osteoporosis<br>Increased fat<br>production | *DOSAGE            |
| Dexamethasone              | Decadron<br>Hexadrol<br>Daltalone  | MDI<br>PO<br>IV | 3 Puffs<br>0.75 - 9 mg<br>daily                                     | Daily            | Impaired<br>immune<br>response              | MUST BE<br>TAPERED |
| Methylprednisone           | Solu-Medrol                        | PO<br>IV<br>IM  | 4 - 48 mg daily<br>10 - 40 mg<br>initially<br>40 - 120<br>initially | Daily            |                                             |                    |

## IV. Nedocromil (Tilade)

| Generic Name | Brand Name | Route | Typical Dose | Side Effects                              | Comments                  |
|--------------|------------|-------|--------------|-------------------------------------------|---------------------------|
| Nedocromil   | Tilade     | MDI   | 2 - 4 Puffs  | Bronchospasm<br>Cough<br>Unpleasant taste | *PROPHYLACTIC<br>USE ONLY |

## V. Antibiotics

| Generic Name | Brand Name                     | Route         | Typical Dose                | Side Effects               | Comments            |
|--------------|--------------------------------|---------------|-----------------------------|----------------------------|---------------------|
| Colistin     | Coly-Mycin                     | Aerosol<br>IV | 50 - 75 mg<br>in 3-4 mL NSS | Voice alteration           |                     |
| Streptomycin |                                | Aerosol<br>IV | 750 - 1000 mg               | Tinnitus                   | *Poorly<br>absorbed |
| Tobramycin   | Tobi* only one<br>FDA approved | Aerosol<br>IV | 300 mg                      | Local airway<br>irritation |                     |
| Gentamicin   |                                | Aerosol<br>IV | 40 - 120 mg                 |                            |                     |

## VI. Antiviral Agents

| Generic Name | Brand Name | Route       | Typical Dose                             | Side Effects                          | Comments                             |
|--------------|------------|-------------|------------------------------------------|---------------------------------------|--------------------------------------|
| Ribavirin    | Virazole   | SPAG-2 Unit | 6 g powder<br>in 300 mL sterile<br>water | Rash<br>Conjunctivitis<br>Hypotension | *Prevents<br>replication of<br>virus |
| Zanamivir    | Relenza    | DPI         | 10 mg                                    | Bronchospasm                          |                                      |

## VII. Antimicrobials

| Generic Name | Brand Name             | Route               | Typical Dose            | Side Effects                                                                                                                      | Comments                                                                        |
|--------------|------------------------|---------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Pentamidine  | NebuPent<br>Pentam 300 | Aerosol<br>IV<br>IM | 300 mg every<br>4 weeks | Aerosol:<br>Bronchospasm<br>Cough, Dyspnea<br>Nausea, Fatigue<br>IV & IM:<br>Altered glucose<br>Anemia<br>↓ BP, ↓ Na <sup>+</sup> | *Interferes with<br>the synthesis<br>of DNA and<br>RNA<br><br>Card Revised 1/11 |