

**7.0. RESPIRATORY DRUGS****7.1 ANTI-ASTHMA****7.1.1 RELIEVERS (quick relief / rescue medications)****7.1.1.1 Bronchodilators****SALBUTAMOL**

Oral: 2 mg tablet (as sulfate)  
2 mg/5 mL syrup, 30 mL, 60 mL  
and 120 mL (as sulfate)

**Inhalation:****Dry Powder Inhaler (DPI):**

200 mcg/dose (as sulfate)  
with appropriate  
accompanying dispenser  
400 mcg/dose (as sulfate)  
with appropriate  
accompanying dispenser

**Metered Dose Inhaler (MDI):**

100 mcg/dose x 200 and 300  
doses (as sulfate)

**Breath Actuated MDI:**

100 mcg/dose x 200 doses  
(as sulfate)  
100 mcg/dose x 400 doses  
(as sulfate)

**Resp. Soln.: (for nebulization)**

1 mg/mL, 2.5 mL (unit dose)  
(as sulfate)  
1 mg/mL, 30 mL bottle  
(as sulfate)  
2 mg/mL, 2.5 mL (unit dose)  
(as sulfate)  
5 mg/mL, 10 mL and 20 mL  
(multidose) (as sulfate)

**TERBUTALINE**

Oral: 2 mg and 2.5 mg tablet (as sulfate)  
1.5 mg/5 mL syrup, 60 mL  
and 120 mL (as sulfate)

**Inhalation:**

DPI: 500 mcg/dose x 100 doses  
(as sulfate) with  
appropriate accompanying  
dispenser  
MDI: 250 mcg/dose x 200 doses and  
400 doses (as-sulfate)

	Resp. Soln.: (for nebulization) 2.5 mg/mL, 2 mL (unit dose) (as sulfate) 2.5 mg/mL, 15 mL, 30 mL (multidose) (as sulfate)
	Inj.: 500 mcg/mL, 1 mL ampul (IM, IV, SC) (as sulfate)
<i>aminophylline</i> ( <i>theophylline</i> <i>ethylenediamine</i> ) (1)	Inj.: 25 mg/mL, 10 mL ampul (IV)
<i>epinephrine</i> ( <i>adrenaline</i> )	Inj.: 1 mg/mL, 1 mL ampul (IM, SC) (as hydrochloride)
<i>formoterol</i>	Oral: 40 mcg tablet (as fumarate) Inhalation: DPI: 12 mcg/dose (as fumarate) with appropriate accompanying dispenser 4.5 mcg/dose x 60 doses (as fumarate dihydrate) with appropriate accompanying dispenser 9.0 mcg/dose x 60 doses (as fumarate dihydrate) with appropriate accompanying dispenser
<i>ipratropium</i>	Inhalation: MDI: 20 mcg/dose x 200 doses (as bromide) Resp. Soln.: (for nebulization) 250 mcg/mL, 1 mL and 2 mL (unit dose) (as bromide) 250 mcg/mL, 20 mL (multidose) (as bromide)
● <i>lagundi</i> [ <i>Vitex negundo</i> , L. (Fam. Verbenaceae)]	Oral: 300 mg and 600 mg tablet 300 mg/5 mL syrup, 60 mL and 120 mL bottle
<i>theophylline</i> ( <i>anhydrous</i> ) (B)	Oral: 125 mg, 150 mg, 200 mg and 300 mg tablet 25 mg/5 mL (26.7 mg/5 mL) syrup, 60 mL and 120 mL

## 7.1.1.2 Corticosteroids

*HYDROCORTISONE*

Inj.: 50 mg/mL, 2 mL vial (IM, IV)  
(as sodium succinate)  
125 mg/mL, 2 mL and 4 mL vial (IV)  
(as sodium succinate)  
powder, 100 mg, 250 mg and 500 mg  
vial (IV) (as sodium succinate)

*PREDNISOLONE*

Oral: 5 mg and 20 mg tablet  
15 mg/5 mL syrup, 20 mL, 30 mL and  
60 mL (as sodium phosphate)  
20 mg/5 mL syrup, 30 and 60 mL  
(as sodium phosphate)

*PREDNISON*

Oral: 5 mg, 10 mg and 20 mg tablet  
30 mg film coated tablet  
10 mg/5 mL suspension,  
30 mL and 60 mL

*methylprednisolone*

Oral: 4 mg and 16 mg tablet  
Inj.: 40 mg/mL, 1 mL suspension vial  
(IM) (as acetate)  
powder, 125 mg/mL, 2 mL vial +  
diluent vial (IM, IV, IV Infusion)  
(as sodium succinate)  
powder, 500 mg, 7.7 mL vial (IV) +  
diluent vial (IM, IV, IV Infusion)  
(as sodium succinate)  
powder, 1 g/16 mL vial + diluent vial  
(IM, IV, IV Infusion)  
(as sodium succinate)

## 7.1.2 CONTROLLERS (prophylactic / maintenance medications)

## 7.1.2.1 Bronchodilators

*formoterol*

Oral: 40 mcg tablet (as fumarate)  
Inhalation:  
DPI: 12 mcg/dose (as fumarate)  
with appropriate  
accompanying dispenser  
4.5 mcg/dose x 60 doses  
(as fumarate dihydrate)  
with appropriate  
accompanying dispenser  
9.0 mcg/dose x 60 doses  
(as fumarate dihydrate)  
with appropriate  
accompanying dispenser

*ipratropium*

Inhalation:

MDI: 20 mcg/dose x 200 doses  
(as bromide)

Resp. Soln.: (for nebulization)

250 mcg/mL, 1 mL and 2 mL  
(unit dose) (as bromide)250 mcg/mL, 20 mL  
(multidose) (as bromide)● *lagundi*[*Vitex negundo*, L.

(Fam. Verbenaceae)]

Oral: 300 mg and 600 mg tablet

300 mg/5 mL syrup, 60 mL and

120 mL bottle

*procaterol*

Oral: 25 mcg and 50 mcg tablet

(as hydrochloride hemihydrate)

5 mcg/mL syrup, 60 mL

(as hydrochloride hemihydrate)

Inhalation:

MDI: 5 mcg/dose x 100 doses  
(as hydrochloride  
hemihydrate)

10 mcg/dose x 100 dose

(as hydrochloride  
hemihydrate)*salbutamol*

Oral: 4 mg and 8 mg CR tablet

(as sulfate)

*salmeterol* (B)

Inhalation:

DPI: 50 mcg/dose x 15 doses  
(as xinafoate)

with appropriate

accompanying dispenser

MDI: 25 mcg/dose x 60 doses

(as xinafoate)

(N.B.: to be used as add on  
controller in patients on  
inhaled corticosteroid)*terbutaline*

Oral: 5 mg ER tablet (as sulfate)

*theophylline*

(anhydrous) (B)

Oral: 125 mg, 200 mg, 250 mg and

300 mg SR tablet

400 mg SR tablet/capsule

## 7.1.2.2 Corticosteroids

*BUDESONIDE*

## Inhalation:

- DPI: 100 mcg/dose x 200 doses  
with appropriate  
accompanying dispenser  
200 mcg/dose x 100 doses  
and 300 doses  
with appropriate  
accompanying dispenser  
400 mcg/dose x 50 doses  
with appropriate  
accompanying dispenser  
MDI: 200 mcg/dose x 100 doses  
Resp. Soln.: (for nebulization)  
250 mcg/mL, 2 mL (unit dose)  
500 mcg/mL, 2 mL (unit dose)

*FLUTICASONE*

## Inhalation:

- DPI: 50 mcg/dose (as propionate)  
with appropriate  
accompanying dispenser  
250 mcg/dose (as propionate)  
with appropriate  
accompanying dispenser  
MDI: 50 mcg/dose x 60 doses and  
120 doses (as propionate)  
125 mcg/dose x 60 doses and  
120 doses (as propionate)  
Resp. Soln.: (for nebulization)  
250 mcg/mL, 2 mL (unit dose)  
(as propionate)

*beclometasone*

## Inhalation:

- DPI: 100 mcg/dose (as dipropionate)  
with appropriate  
accompanying dispenser  
200 mcg/dose (as dipropionate)  
with appropriate  
accompanying dispenser  
400 mcg/dose (as dipropionate)  
with appropriate  
accompanying dispenser  
MDI: 50 mcg/dose x 100 and  
200 doses (as dipropionate)  
250 mcg/dose x 200 doses  
(as dipropionate)

## Breath Actuated MDI:

50 mcg/dose x 200 doses

(as dipropionate)

100 mcg/dose x 200 doses

(as dipropionate)

250 mcg/dose x 200 doses

(as dipropionate)

*methylprednisolone*

Oral: 4 mg and 16 mg tablet

*prednisolone*Oral: 5 mg tablet and 20 mg tablet  
15 mg/5 mL syrup, 20 mL,  
30 mL and 60 mL  
(as sodium phosphate)  
20 mg/5 mL syrup, 30 and 60 mL  
(as sodium phosphate)*prednisone*Oral: 5 mg, 10 mg and 20 mg tablet  
30 mg film coated tablet  
10 mg/5 mL suspension, 30 mL  
and 60 mL

## 7.1.2.3 Fixed Dose Combination Corticosteroid and Beta 2 Agonists

*budesonide +  
formoterol*

Inhalation:

DPI: 80 mcg budesonide + 4.5 mcg  
formoterol (as fumarate  
dihydrate) x 60 and 120  
doses with appropriate  
accompanying dispenser  
160 mcg budesonide + 4.5 mcg  
formoterol (as fumarate  
dihydrate) x 60 and 120  
doses with appropriate  
accompanying dispenser*fluticasone +  
salmeterol*

Inhalation:

DPI: 100 mcg fluticasone  
(as propionate + 50 mcg  
salmeterol (as xinafoate)  
x 28 and 60 doses  
with appropriate  
accompanying dispenser  
250 mcg fluticasone  
(as propionate) + 50 mcg  
salmeterol (as xinafoate)  
x 28 and 60 doses  
with appropriate  
accompanying dispenser

500 mcg fluticasone  
(as propionate) + 50 mcg  
salmeterol (as xinafoate)  
x 28 and 60 doses  
with appropriate  
accompanying dispenser

MDI: 50 mcg fluticasone  
(as propionate) + 25 mcg  
salmeterol (as xinafoate)  
x 120 doses

125 mcg fluticasone  
(as propionate) + 25 mcg  
salmeterol (as xinafoate)  
x 120 doses

250 mcg fluticasone  
(as propionate) + 25 mcg  
salmeterol (as xinafoate)  
x 120 doses

#### 7.1.2.4 Leukotriene Receptor Antagonist

*montelukast* (1)

Oral: 4 mg granules (as sodium), sachet  
4 mg and 5 mg chewable tablet  
(as sodium)  
10 mg tablet (as sodium)

#### 7.1.2.5 Mast Cell Stabilizer

★ *cromolyn sodium*  
(*sodium*  
*cromoglicate*)

Inhalation:  
DPI: 20 mg/dose with appropriate  
accompanying dispenser  
MDI: 5 mg/dose x 112 doses  
Resp. Soln.: (for nebulization)  
10 mg/mL aqueous solution,  
2 mL ampul

### 7.2 AGENTS FOR CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)

#### 7.2.1 Relievers (quick relief/rescue medications) see under Bronchodilators (7.1.1.1)

#### 7.2.2 Maintenance Medication

*tiotropium*

Inhalation:  
DPI: 18 mcg/dose (as bromide)  
with appropriate  
accompanying dispenser

*ipratropium +  
fenoterol*

Inhalation:

MDI: 20 mcg ipratropium (as bromide)  
+ 50 mcg fenoterol  
(as hydrobromide)  
x 10 mL doses

Resp. Soln.: (for nebulization)

250 mcg ipratropium  
(as bromide) + 500 mcg  
fenoterol (as hydrobromide)  
per mL, 20 mL (multidose)

500 mcg ipratropium  
(as bromide) + 1.25 mg  
fenoterol (as hydrobromide)  
per 4 mL, (unit dose)

*ipratropium +  
salbutamol*

Inhalation:

MDI: 21 mcg ipratropium (as bromide)  
+ 120 mcg salbutamol  
x 200 doses x 10 mL

Resp. Soln.: (for nebulization)

500 mcg ipratropium  
(as bromide anhydrous) +  
2.5 mg salbutamol (as base)  
x 2.5 mL (unit dose)

### 7.3 CENTRALLY ACTING ANTITUSSIVES

*butamirate* (2)

Oral: 50 mg SR tablet (as citrate)  
7.5 mg/5 mL syrup, 60 mL and  
120 mL (as citrate)

*dextromethorphan* (2)

Oral: 10 mg tablet (as hydrobromide)  
5 mg/5 mL syrup, 30 mL, 60 mL  
and 120 mL (alcohol-free)  
(as hydrobromide)  
10 mg/5 mL syrup, 60 mL  
(alcohol-free)  
(as hydrobromide)  
15 mg/5 mL syrup, 30 mL, 60 mL  
and 120 mL (alcohol-free)  
(as hydrobromide)

### 7.4 RESPIRATORY STIMULANT

*aminophylline* (1)  
(*theophylline*  
*ethylenediamine*)

Inj.: 25 mg/mL, 10 mL ampul (IV)