## **NEBULES TO INHALERS - SUMMARY OF CHANGES**

## **ADULT PATIENTS**

Medication	Current Therapeutic Inte	erchange	New Auto-substitution (Effective March 13 2020)		
Salbutamol	All Adult Orders for:	Will be changed to:	Comments		
	For <b>non-ventilated</b> patients: Salbutamol aerosol (5 mg/mL) 0.15 to 0.29 mL → 0.3 to 0.74 mL → 0.75 to 0.99 mL → 1 mL or greater →  For <b>ventilated</b> patients: Salbutamol aerosol (5 mg/mL) 0.15 to 0.29 mL → 0.3 to 0.74 mL → 0.75 to 0.99 mL → 1 mL or greater →	Salbutamol Inhaler (100 mcg/puff)  2 puffs (200 mcg) 3 puffs (300 mcg) 4 puffs (400 mcg) 6 puffs (600 mcg)  Salbutamol Inhaler (100 mcg/puff)  4 puffs (400 mcg) 6 puffs (600 mcg) 8 puffs (800 mcg) 12 puffs (1200 mcg)	Dosage conversion of Nebules to Metered Dose Inhaler - to be done by RRTs after an assessment. (This autosub is facilitated by the Registered Respiratory Therapist (RRT))  Dosage conversion of Nebules to Metered Dose Inhaler - to be done by RRTs after an assessment. (This autosub is facilitated by the RRT)	All Adult Orders for: Salbutamol 2.5 mg inhalation (via nebules)  Salbutamol 5 mg inhalation (via nebules)	Will be changed to:  Salbutamol inhaler (100 mcg/puff) 2 puffs INH at the same prescribed frequency  Salbutamol inhaler (100 mcg/puff) 4 puffs INH at the same prescribed frequency
	All Adult Orders for:	Will be changed to:	Comments		
Ipratropium	Ipratropium aerosol (250 mcg/mL) [For non-ventilated patients]  0.25 mL →  0.5 mL →  1 mL →  1.5 mL →  2 mL →  Ipratropium aerosol (250 mcg/mL) [For ventilated patients]  0.25 mL →  0.5 mL →  1 mL →  2 mL →	Ipratropium Inhaler (20 mcg/puff) [For non-ventilated patients]  1 puff (20 mcg) 2 puffs (40 mcg) 4 puffs (80 mcg) 6 puffs (120 mcg) 8 puffs (160 mcg) Ipratropium Inhaler (20 mcg/puff) [For ventilated patients] 2 puffs (40 mcg) 4 puffs (80 mcg) 8 puffs (160 mcg) 16 puffs (320 mcg)	Dosage conversion of Nebules to Metered Dose Inhaler - to be done by RRTs after an assessment.  Dosage conversion of Nebules to Metered Dose Inhaler - to be done by RRTs after an assessment.	All Adult Orders for:  Ipratropium 250 mcg inhalation (via nebules)  Ipratropium 500 mcg inhalation (via nebules)	Will be changed to:  Ipratropium inhaler (20 mcg/puff) 4 puffs INH at the same prescribed frequency  Ipratropium inhaler (20 mcg/puff) 8 puffs INH at the same prescribed frequency

Budesonide	All Adult Orders for:  Budesonide Turbuhaler/Nebuamp [For adult non-critical care patients (non-vented) less than 201 mcg per day 201 mcg to 400 mcg per day 401 mcg to 750 mcg per day 751 mcg to 1250 mcg per day greater than 1750 mcg per day Budesonide Turbuhaler/Nebuamp [For adult vented patients] less than 201 mcg per day 201 mcg to 400 mcg per day 401 mcg to 750 mcg per day 751 mcg to 1250 mcg per day greater than 1750 mcg per day	Fluticasone Inhaler 50 mcg/puff 1 puff q12h Fluticasone Inhaler 50 mcg/puff 2 puffs q12h Fluticasone Inhaler 125 mcg/puff 1 puff q12h Fluticasone Inhaler 125 mcg/puff 2 puffs q12h Fluticasone Inhaler 125 mcg/puff 3 puffs q12h Fluticasone Inhaler 125 mcg/puff 4 puffs q12h Fluticasone Inhaler 50 mcg/puff 2 puffs q12h Fluticasone Inhaler 50 mcg/puff 2 puffs q12h Fluticasone Inhaler 125 mcg/puff 2 puffs q12h Fluticasone Inhaler 125 mcg/puff 4 puffs q12h Fluticasone Inhaler 125 mcg/puff 6 puffs q12h Fluticasone Inhaler 125 mcg/puff 8 puffs q12h Fluticasone Inhaler 125 mcg/puff 8 puffs q12h	All Adult Orders for: Budesonide 0.25 mg inhalation (via nebules)  Budesonide 0.5 mg inhalation (via nebules)  Budesonide 1 mg inhalation (via nebules)  Budesonide 2 mg inhalation (via nebules)	Will be changed to:  Fluticasone inhaler 125 mcg/puff – 1 puff INH at the same prescribed frequency  Fluticasone inhaler 125 mcg/puff – 2 puffs INH at the same prescribed frequency  Fluticasone inhaler 125 mcg/puff – 3 puffs INH at the same prescribed frequency  Fluticasone inhaler 125 mcg/puff – 4 puffs INH at the same prescribed frequency

## **NEBULES TO INHALERS - SUMMARY OF CHANGES**

## **PEDIATRIC PATIENTS (excluding neonates)**

Medication	Current Therapeutic Inte	Current Therapeutic Interchange				New Auto-substitution (Effective March 16 2020)		
	All Orders for:	Will be changed to:		Comments				
	For non-ventilated patients: Salbutamol aerosol (5 mg/mL) 0.15 to 0.29 mL → 0.3 to 0.74 mL → 0.75 to 0.99 mL → 1 mL or greater →  For ventilated patients: Salbutamol aerosol (5 mg/mL) 0.15 to 0.29 mL → 0.3 to 0.74 mL → 0.75 to 0.99 mL → 1 mL or greater →	Salbutamol Inhaler (100 mcg/puff)  2 puffs (200 mcg) 3 puffs (300 mcg) 4 puffs (400 mcg) 6 puffs (600 mcg)  Salbutamol Inhaler (100 mcg/puff)		Dosage conversion of Nebules to Metered Dose Inhaler - to be done by RRTs after an assessment. (This autosub is facilitated by the Registered Respiratory Therapist (RRT)) Dosage conversion of Nebules to Metered Dose Inhaler - to be done by RRTs after an assessment. (This autosub is facilitated by the RRT)	All Pediatric Orders (excludineonates*) for: Salbutamol 1.25 mg inhalatio (via nebules)  Salbutamol 2.5 mg inhalation (via nebules)	on Salbutamol inhaler (100 mcg/puff) 2 puffs INH at the same prescribed frequency		
Salbutamol	All Pediatric and NICU Orders fo	All Pediatric and NICU Orders for: Will be changed to				Salbutamol inhaler (100 mcg/puff) 8 puffs INH at the same prescribed frequency		
	<ul> <li>0.25 mL or less (1.25 mg or</li> <li>More than 0.25 mL - 0.5 mL</li> </ul>	Salbutamol 5 mg/mL inhalation solution:  Output  Salbutamol 5 mg/mL inhalation solution:  Output  Salbutamol nebula  1.25 mg / 2.5  More than 0.25 mL - 0.5 mL (1.26 - 2.5 mg)  Salbutamol nebula  2.5 mg / 2.5 rg		mL		14 weeks and a PNA of greater than 4 weeks		

Ipratropium	All Pediatric Orders for:	Will be changed to:	Comments			
	mcg/mL) [For non-ventilated [For non-ventilated patients] to Metered Dose II		Dosage conversion of Nebules to Metered Dose Inhaler - to be done by RRTs after an assessment.	All Pediatric Orders (exc neonates*) for: Ipratropium 250 mcg inf (via nebules)	nalation Ipratr	opium inhaler (20 mcg/puff) 4 puffs t the same prescribed frequency
Budesonide	Ipratropium aerosol (250 mcg/mL) [For ventilated patients] 0.25 mL → 0.5 mL → 1 mL → 2 mL →	Ipratropium Inhaler (20 mcg/puff) [For ventilated patients] 2 puffs (40 mcg) 4 puffs (80 mcg) 8 puffs (160 mcg) 16 puffs (320 mcg)	Dosage conversion of Nebules to Metered Dose Inhaler - to be done by RRTs after an assessment.	Ipratropium 500 mcg inf (via nebules)  *Neonate: PMA of greater t	INH a	opium inhaler (20 mcg/puff) 8 puffs t the same prescribed frequency  PNA of greater than 4 weeks
				All Pediatric Orders (excluding neonates*) for:	Age	Will be changed to:
	*No current therapeutic interchange at Osler for pediatric patients*			Budesonide inhalation	Less than 1 year	Fluticasone inhaler (50 mcg/puff)  – 2 puffs INH Q12H
				(via nebules)	Greater than or equal to 1 year	Fluticasone inhaler (125 mcg/puff) – 2 puffs INH Q12H
				*Neonate: PMA of greater than 44 weeks and a PNA of greater than 4 weeks		