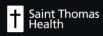
CLINICAL INFORMATICS

Title	Multidose Inhalers to Nebulizers - Approved Interchanges	
Requestor	Physicians, Pharmacy, Nursing	
Application	Cerner > eMAR	
Impacted Positions	MD/DOs; NP; PA; Nursing; Pharmacy; Respiratory Therapy	
PROD Date	11/9/2016	
Details	Request Goal	Ascension Health's preferred long-acting anticholinergic inhaler is changing from tiotropium to umeclidinium. Additional classes of inhalers will also be switched to nebulizer therapy. Approved by STTC, MECs
	SITUATION	Respiratory therapy medication therapeutic interchanges have been approved at St Thomas Health.
	BACKGROUND	
	ASSESSMENT	Ascension Health's preferred long-acting anticholinergic inhaler is changing from tiotropium to umeclidinium. Other therapeutic substitution opportunities with respiratory medications were identified.
	RECOMMENDATION	Implement new therapeutic substitutions Nov 8, 2016.

Short-acting Beta Agonists			
Drug Ordered	Drug Dispensed		
Nebulized			
Levalbuterol 0.155 mg ANY frequency	Albuterol 0.31 mg SAME frequency		
Levalbuterol 0.31 mg ANY frequency	Albuterol 0.63 mg SAME frequency		
Levalbuterol 0.63 mg ANY frequency	Albuterol 1.25 mg SAME frequency		
Levalbuterol 1.25 mg ANY frequency	Albuterol 2.5 mg SAME frequency		
Metered Dose Inhaler (MDI)			
Albuterol (ProAir, Proventil, etc) ANY frequency	- Albuterol 2.5mg nebulized SAME frequency		
Levalbuterol 45 mcg 1-2 inhalations ANY frequency			



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Pirbuterol (Maxair) 200 mcg 1-2 inhalations ANY frequency

*If the original order is written for ANY dose and frequency as needed (PRN), the order will be converted to albuterol SAME frequency as needed (PRN).

Long-acting Beta Agonist		
Drug Ordered	Drug Dispensed	
Arformoterol (Brovana) 15mcg nebulized BID		
Formoterol (Perforomist) 20mcg nebulized BID		
Formoterol (Foradil Aerolizer) 12mcg inhalation BID		
Indacaterol (Arcapta Neohaler) 1 inhalation once daily	Albuterol 2.5mg nebulized QID	
Olodaterol (Striverdi Respimat) 2 inhalations once daily		
Salmeterol (Serevent Diskus) 1 inhalation BID		
Salmeterol DPI		
50 mcg/blister	Albuterol 2.5mg nebulized 15 minutes prior	
1 inhalation 30 minutes prior to exercise	to exercise	



Short-acting Anticholinergic Agents				
Drug Ordered	Drug Dispensed			
Ipratropium (Atrovent) ANY frequency	Ipratropium 0.5mg nebulized SAME frequency			
*If the original order is written for ANY dose and frequency as needed (PRN), the order will be converted to ipratropium SAME frequency as needed (PRN).				

Long-Acting Anticholinergic Agents		
Drug Ordered	Drug Dispensed	
Aclidinium (Tudorza) 1 inhalation twice daily		
Tiotropium (Spiriva Respimat) 2.5mcg/inhalation product 2 inhalations once daily		
Tiotropium (Spiriva HandiHaler) 1 capsule (18mcg) inhalation once daily	Ipratropium 0.5mg nebulized QID	
Glycopyrrolate (Seebri Neohaler) 1 inhalation (15.6mcg) once daily	-	
Umeclidinium (Incruse Ellipta) 1 inhalation (62.5mcg) once daily		



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Short-acting Beta Agonist/Anticholinergic Combination Products		
Drug Ordered	Drug Dispensed	
Ipratropium/Albuterol (Combivent) ANY frequency	Ipratropium/Albuterol (DuoNeb) 2.5/0.5mg (3mL) nebulized SAME frequency	
*If the original order is written for ANY dose and frequency as needed (PRN), the order will be converted to ipratropium/albuterol SAME frequency as needed (PRN).		

Long-acting Beta Agonist/Anticholinergic Combination Products		
Drug Ordered	Drug Dispensed	
Tiotropium/Olodaterol (Stiolto Respimat) 2 inhalations once daily		
Umeclidinium/Vilanterol (Anoro Ellipta) 1 inhalation once daily	Ipratropium/Albuterol (DuoNeb) 2.5/0.5mg (3mL) QID	
Indacaterol/Glycopyrrolate (Utibron Neohaler) 1 inhalation twice daily		

