





















Hospital Costs		
Average Costs		
per hospital stay	\$14,427 *	
per hospital day	\$3,612*	
Per ICU stay (non-ventilated pts)	\$12,931**	
Average LOS in ICU(non-vented pts)	8.5 days**	
1 day increase in LOS in ICU	\$2,401***	
1 day increase in LOS on floors	\$1,122***	
*data from 2010 International Federation of Health Plans, ** CCM 2005 Dasta JF, ***Candrilli & Mauskopf RTI Health Solutions "How Much Does a Hospital Day C	, et al. iost?"	
	Fisher&Paykel	

















Category	Author	Торіс	Clinical Impact	Potential Outcomes
Lung Mechanics	Corley	Impedance Tomography with Optiflow	Optiflow increases lung volumes (FRC)	Can reduce risk of atelectasis
Lung Mechanics	Parke	Airway Pressure delivery with Optiflow	Optiflow increases mean airway pressure	Improved oxygenation
Mucociliary Transport	Hasani	Humidification improves mucociliary clearance	Optiflow increases mucociliary clearance	Can reduce risk of infection
Mucociliary Transport	Rea	Humidity therapy with COPD	Decreased exacerbation days and antibiotic use	Optiflow improves COPE outcomes
Oxygenation	Fontanari	Cold dry vs dry vs humid air in normal individuals	Cold dry or dry air cause bronchoconstriction	Cold dry or dry air cause bronchoconstriction
Oxygenation	Kuo	Aerosol, humidity and oxygenation	Can increase PaO <sub>2</sub> for similar FiO <sub>2</sub>	Improve oxygenation and reduce weaning time
Oxygenation	Roca	Oxygen delivery: Maskivs NHF	Reduced respiratory rate and increased PaO <sub>2</sub>	Reduced respiratory rate and increased PaO <sub>2</sub>







