

Ventilator Reduction Strategies

In an effort to reduce invasive therapies for their smallest patients, **Magee-Womens at University of Pittsburgh Medical Center (UPMC)** implemented a protocol utilizing a low resistance occlusive interface with **BCPAP** instead of a cannula CPAP through a vent with the goal of reducing ventilator days and surfactant usage. Below is their data:



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Vent Days with Surfactant Usage in 2018-19

	Vent Days	Surfactant Usage
January '18	218	27 doses
February '18	193	18 doses
March '18	239	20 doses
April '18	240	21 doses
May '18	210	15 doses
June '18	186	16 doses
July '18	226	19 doses
August '18	163	8 doses
September '18	81	7 doses
October '18	70	4 doses
November '18	49	3 doses
December '18	39	5 doses
Average in 2018:	159.5	13.58 doses
January '19	58	6 doses



Bubble CPAP initiation

Bubble CPAP Outcomes

September '18	October '18	November '18	December '18	January '19
Total = 54	Total = 66	Total = 77	Total = 87	Total = 90
<32 weeks = 6	<32 weeks = 6	<32 weeks = 10	<32 weeks = 15	<32 weeks = 13
Failures = 1	Failures = 1	Failures = 2	Failures = 1	Failures = 3

GOAL <40%
Failures 25-28 Weeks 33%

GOAL <10%
Failures 28-32 Weeks 6.8%

Bubble CPAP Protocol

Algorithm for Resuscitation of Preterm Infant (<30 weeks) in Delivery Room
(without congenital airway or lung anomalies)

