Abstract PS-226 Table 1

	TP				SIB			
	40	60	80	p Value	40	60	80	p Value
VR [†]	39.7(0.3)	59.8(0.5)	79.8(1)		39.8(0.2)	59.8(0.4)	79.6(0.7)	
Inspiratory tidal volume [†]	27.9(16.6)	22.6(7.4)	19.3(4.1)	< 0.001**	33.4(17.7)	25.8(9.7)	24.4(5.1)	<0.001**
Mean Airway Pressure [†] (MAP)	8.9(2.1)	11(1.5)	11.5(1.6)	< 0.001*	5(2)	6.5(1.8)	8.2(1.7)	<0.001*
I/E Ratio [†]	0.26(0.25)	0.43(0.8)	0.48(0.18)	< 0.001*	0.35(0.25)	0.45(0.2)	0.67(0.23)	<0.001*

† Mean (SD) * RM ANOVA **RM ANOVA on ranks

statistically associated with AR. The MLR correctly classified 87% of the observations.

Conclusion NB of pregnant women presenting the following RF: GA < 37, EC, MFL, CC, FB, AP, MSAF, ECS, Ga and PROM (Premature rupture of membranes) >18 h have an increased need of Advanced Resuscitation (AR). Team trained to should be present at the delivery for pregnant women with the above risk factors.

MLR to AR

PS-226 EFFECTS OF DIFFERENT VENTILATION RATE (VR) TARGETS IN A MODEL OF NEONATAL MANUAL POSITIVE PRESSURE VENTILATION (PPV)

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Background Current recommendations for manual PPV in the delivery room allow a VR range of 40–60 ventilations/min. However, not enough studies have explored the effects of VR on resuscitation.

Objective To evaluate the effect of different VR targets on other ventilatory variables during manual PPV.

Methods 20 physicians manually ventilated an intubated neonatal manikin with both a self-inflating bag (SIB) without a PEEP valve and a T-piece resuscitator (TP). Peak inspiratory pressure

(PIP) target was 25 cmH₂O, PEEP was set to 5 on the TP and flow was kept at 8 l/min. VR (40, 60 and 80 vent/min) was paced by a metronome. Both, VR targets and PPV device sequences, were randomly assigned. Variables were compared by one-way repeated measures ANOVA.

Results Participants performed 9450 ventilations in 6 series of 90 seconds. For both devices there were no significant modifications in PIP and inspiratory time (T_i) between VR targets.

Conclusions Higher VR increased I/E ratio and provided higher MAP despite similar PIP. Further studies are needed to evaluate if targeting VR can influence the response to PPV in delivery room.

PS-227 A RANDOMISED TRIAL OF USING THERMAL BLANKET TO IMPROVE THERMOREGULATION AMONG PRETERM INFANTS

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Background Thermal protection is critical in caring very low birthweight (VLBW).

Methods VLBW infants born at Chang-Gung Memorial Hospital were randomly assigned to TB or control group from February to July 2013. All infants were placed on a pre-warmed radiant warmer upon admission. For TB group, blanket of Blanketrol® II (Cincinnati Sub-Zero Products) was additionally applied (Figure 1) and system temperature was set 37°C. Individual's temperature, heart rate, mean blood pressure (MAP), and oxygen saturation were measured immediately at admission and at 30th, 60th, 90th, 120th minute later, respectively. We defined hypothermia as temperature <36°C and hypotension as MAP < index infant's gestational age (GA).

Abstract PS-227 Figure 2

Abstract PS-227 Figure 1