## **MANAGEMENT OF HYPOXEMIC RESPIRATORY FAILURE & ARDS**

RESPIRATORY DISTRESS (SpO2<90% with RA, RR > 30/min)

1. High flow oxygen – 5 L/min with nasal prongs/mask

NON INVASIVE VENTILATION ( trial for 1 hour)

(hemodynamic instability, abnormal mental status)

IF PATIENT ACUTELY DETERIORATES

ENDOTACHEAL INTUBATION WITH MECHANICAL VENTILATION

Initial Tidal Volume-4 to 8 ml/kg

Plateau Pressure < 30cmH2O

I: E ratio - 1: 1.0-1.3

Oxygenation goal - PaO2-55 to 80mmHg or SpO2-88 to 95%

## 1. Use these incremental ${\rm Fi_{O_2}} ext{-PEEP}$ combinations to achieve oxygenation goal:

F102	0.3	0.4	0.4	0.5	0.5	0.6	0.7	0.7
PEEP	5	5	8	8	10	10	10	12
F102	0.7	0.8	0.9	0.9	0.9	1.0	1.0	1.0
PEEP	14	14	14	16	18	20	22	24

Check Pplat, Spo2, total RR, TV, ABG at least every 4hr

If Pplat>30cm of H2O, decrease TV by 1ml/kg(min 4ml/kg IBW)

If Pplat <25cm H2O and TV <6ml/kg, increase TV by 1ml/kg until Pplat>25cm H2O or TV=6ml/kg

If Pplat<20cm H2O and breath stacking occurs, one may increase TV in 1ml/kg increment (to max of 8ml/kg)

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pH Goals: 7.30-7.45

• ACIDOSIS MANAGEMENT : pH<7.30

If pH=7.15-7.30, increase RR until pH>7.30 or Pco2<25 mmHg(max RR=35) ; if RR=35 and Pco2<25 mmHg,may give NaHco3

If pH<7.15 and NaHco3 considered or infused, TV may be increased in 1ml/kg steps until pH>7.15

• ALKALOSIS MANAGEMENT:pH>7.45 :decrease RR if possible

## **CLINICAL ASSESSMENT FOR WEANING**

- 1. Place T-piece with 100% Oxygen
- 2. Assess the tolerance based on

SPO2 ≥ 90

RR ≤ 35/min

No respiratory distress

Adequate muscle tone

Adequate Tidal volume

Haemodynamically stable

Consciousness

If tolerated for 30 minutes consider T-piece without oxygen for 3Hours

SPO2 > 95 %

Extubation

Shift the patient to isolation ward and counsel the patient attendants regarding preventive aspects like wearing the mask and limited entry to the ward

## CRITERIA FOR DISCHARGE:

Clinico- radiological improvement with

RT-PCR test should be negative in two samples at least 24 hours apart