MCH Covid-19 Nursing Education Plan

- CDC Clinical Guidance for HCP updates ongoing: Management of Patients with Confirmed 2019-nCoV

- Center for Disease Control [www.cdc.org](http://www.cdc.org)
- MedCram on YouTube - short evidenced based: MedCram - Medical Lectures Explained CLEARLY
- John Hopkins Covid 19 Sick Map & Resource Center (Updated Frequently) - Johns Hopkins Coronavirus Resource Center

<table>
<thead>
<tr>
<th>Nursing Process</th>
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<tbody>
<tr>
<td>Assessment</td>
<td>Airway patency: stridor, drooling, snoring respirations. Rate, depth, pattern and effort LS B rales in all fields (upper) Objective Data: NOTE: In ARDS patients are getting Oxygen, but SAT is decreasing. ET CO2: waveform capnography.</td>
<td>Respiratory Assessment O2 Sat patterns with ARDS ECO2</td>
<td>Critical Care for the Non-ICU Clinician Resource Center ARDS Diagnosis Severity</td>
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<tr>
<td>Planning</td>
<td>Working with Droplet and Airborne NOTE: CDC Guidelines and local DPH publish ongoing updates about persons at risk.</td>
<td>N95 Don Doff</td>
<td>Guidance for Clinically Stable PUIs</td>
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<tr>
<td>Interventions</td>
<td>Position of comfort IV access B 20’ GAs. Oxygen methodology NC / NRB / HI ADLs’</td>
<td>NRB Oxygen Alaris Pumps Drugs: vasopressors</td>
<td>Basic Introduction to Alaris Pumps</td>
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<tr>
<td>Evaluation</td>
<td>Progress of ARDS</td>
<td>Ongoing assessment</td>
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## Adult Respiratory Distress Syndrome - ARDS  Focus SEVERE Respiratory Distress

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| **Assessment**  | Progress of ARDS  
Severe Respiratory Distress: RR, Effort, Sat↓ w/ O₂↑ 
ET CO₂↑  
Berlin Criteria  
V/Q mismatch | Respiratory ECO₂ | ARDS 11 Minute Video  
ETCO₂ from Hamilton Vents VERY Basic! Get coffee!  
e-learning: Basics of Capnography  
ETCO₂ 10 minutes Pathophysiology and Monitoring.  
Waveform Capnography -- BAVLS |
| **Planning**    | Increasing Respiratory support  
*Safety Note: Intubation is HIGH risk d/t aerosolization and potential droplet exposure.  
See CDC for most recent PPE* | Prepare for intubation  
Ventilator Initial settings  
Patient Sedation VS RSI  
Staff Safety | |
| **Interventions** | Position of comfort  
IV access Bilateral  
20’ GAs.  
Oxygen methodology NC / NRB / HI  
ADLs’ - Cluster Care | NRB  
Oxygen Pumps - Initial set up  
Programming pumps.  
Titration of drugs  
Drugs Nebulizer (RT) | Vasopressors (Part 1) - ICU Drips |
| **Valuation**   | Progress of ARDS  
Berlin Criteria  
V/Q mismatch | Berlin Criteria  
Calculating V/Q mismatch  
Ongoing assessment  
Communications with HCP and team | Berlin Criteria Staging Progress of ARDS  
VQ Mismatch - Ventilation Perfusion Mismatch & Ratio  
Vapotherm High Flow Oxygen Delivery System |
### Adult Respiratory Distress Syndrome - ARDS Focus: INTUBATION

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<tr>
<td>Assessment</td>
<td>-</td>
<td>Equipment needed</td>
<td>ETCO2 to confirm ET placement</td>
</tr>
<tr>
<td>Planning</td>
<td>Working with Droplet and Airborne</td>
<td>Who is in what role Meds Support of HCP tubing Ventilator prepared Med nurse</td>
<td>Great Intro to Intubation and Vents.(14 min) <a href="https://www.youtube.com/watch?v=i6hmGVbUJk&amp;t=80s">https://www.youtube.com/watch?v=i6hmGVbUJk&amp;t=80s</a></td>
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| Interventions   | Intubation Operations during Covid 19 Safety with PPE for procedure Donning PPE N95 PAPR Room doors closed | Support of Provider 10 ml ET CO2 Bagging Connecting to Ventilator tube Ventilator Settings | [Intubation of suspected COVID-19 patients (English)](https://www.youtube.com/watch?v=i6hmGVbUJk&t=80s)  
[Donning and Doffing PPE](https://www.youtube.com/watch?v=i6hmGVbUJk&t=80s) |
| Evaluation      | Assessment of patient on Ventilator ABG’s Vent settings ET Co2 | Ongoing assessment Communications with HCP and team | [ABG Interpretation Made Easy](https://www.youtube.com/watch?v=i6hmGVbUJk&t=80s)  
[Ventilator Settings Made Easy](https://www.youtube.com/watch?v=i6hmGVbUJk&t=80s) |
### ARDS Focus VENTILATOR Nursing Care

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| Assessment      | Standards Modes and Settings  
Types of Alarms (Low level / High Level)  
ABG’s            |          |          | “Ventilator settings for nurses”  
“Vasopressors Part 1 ICU drips” |
| Planning        | Care for the shift  
Adjusting for patient status | SBAR    |          |
| Interventions   | Ventilators Hamilton 5G  
Ventilator adjustment  
Pre-oxygenation for suctioning  
In-line suctioning  
Positioning  
Proning         |          |         | What is Ventilation from ICU Advantage.(18 min)  
What is Mechanical Ventilation? - Ventilators EXPLAINED  
Basic Ventilator Modes from ICU Advantage(12 min) Basic Vent Modes MADE EASY - Ventilator Settings Reviewed  
Proning an Intubated patient safely |
| Evaluation      | Documentation EMR      |        |            |