The Barbara Boah Children's Hospital de Maior Medical Character Service Research Children's Hospital Children's Hospit	Initial Steps-Big Changes	Meconium Non-vigorous babies do not require routine intubation and suctioning Meconium is a risk factor for resuscitation At least one resuscitation member with full resuscitation skills should be present Harm Avoidance Delay in providing PPV Potential harm of the intubation
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Risk Factors for Resuscitation



Page 18, 7th edition NRP Provider textbook

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Delayed cord clamping

- Delay cord clamping for at least 30-60 seconds
 - Vigorous term and preterm infants
- Not intended for situations where placental circulation is not intact
 - Clamp and cut the cord in these situations

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The Future?



•Sharp Hospital for Women and Infants

•Research Trial

•Delayed Cord clamping for babies requiring resuscitation

 Bed pre-warmed to 39.5 and height adjustable

Also being trialed in Europe. Go to: http://europepmc.org/articles/PMC4467574/

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What about Oxygen?	What about Oxygen? Let's talk scenarios	Positive Pressure Ventilation
 Late preterm and term 35 weeks EGA and above Start with 21% Preterm Less than 35 weeks EGA Start with 21-30% Oxygen 	 Baby is breathing, Oxygen saturation not in the target range Start at 30% Adjust as needed to achieve oxygen target Baby with labored breathing or saturations not maintained despite 100% O2 Try CPAP 	 Indications for PPV? Apnea Gasping Heart rate less than 100 Baby breathing and heart rate over 100 but unable to maintain oxygen saturations in target range with 100% free flow oxygen
The Barbara Rash Children's Hopkind of the Manufacture PROTEST CHRISTON RESPECT OWNERS APP INSOCRATION INTERNITY 8	The Barbara Rash Children's Hopfall Manufacture PRITERY CHITERID RESPECT OWNERSHIP INNOVATION INTERNITY 9	The Backers Back Children's Happing & Action Station Control RESPECT GREATERS RESPECT RE

Positive Pressure Ventilation	Positive Pressure Ventilation	Endotracheal Intubation and Laryngeal Masks			
 How to? Adjust flowmeter to 10L/Min Inspiratory pressure 20 to 25 cm H2O; PEEP 5 cm H2O PEEP preferable for preterm newborns Helps maintain lung inflation between positive pressure If possible place baby on cardiorespiratory monitor Listen to the baby Bilateral breath sounds Rising heart rate 	Start PPV, assistant listens for an increasing heart rate for the first 15 seconds of PPV PPV and no improvement try MR. SOPA (also known as MRS. OPA) Mask reposition Reposition the airway Suction the airway Open the mouth Pessure increase-increase peak inspiratory pressure to 30 or higher Alternate airway Still no chest rise? Suction trachea through endotracheal tube or direct with meconium aspirator	 Intubation strongly recommended prior to chest compressions Consider laryngeal mask if unsuccessful intubation New! Endotracheal tube (ETT) size Greater than 2 kg and greater than 34 weeks = 3.5 ETT 4.0 ETT no longer recommended; remove from supplies Note: vocal cord guide is an approximation May not reliably indicate correct insertion depth Tip to lip measurement or depth of ETT 			
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Chest Compressions	Chest Compressions	Scenario
 Indications Heart rate less than 60 beats per minute After at least 30 seconds of PPV that inflates the lungs 	 Increase oxygen to 100% Oxygen remains at 100% until heart rate greater than 60 And 	 26 year old at 38 3/7, spontaneous labor, meconium stained amniotic fluid, C-section for Category 2 tracing and failure to progress
» Chest movement • In most cases at least 30 seconds of PPV through properly	Pulse oximeter has a reliable signalTwo thumb technique	• Infant limp and apneic at birth; assistant tells you the heart rate is 50
inserted ETT or LM	Place electronic cardiac monitor	• What are your next steps?
	 Preferred method for assessing heart rate during compressions Continue for 60 seconds prior to checking a heart rate 	
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- Epinephrine
 - Heart rate less than 60 after at least 30 seconds of PPV
 - » Preferably through a properly inserted ETT or LM

AND

- Another 60 seconds of chest compressions coordinated with PPV using 100% oxygen
- Not indicated if you have not established ventilation that effectively inflates the lungs

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Medication

- · Epinephrine Dosing
 - One dose via endotracheal tube while establishing vascular access
 - If you give the first dose via ETT and response not satisfactory, repeat the dose as soon as you have vascular (umbilical venous catheter) or intraosseous access
 - » Do not wait 3-5 minutes
- Fluids
 - 0.9% NaCl or O negative blood
 - Ringers lactate no longer recommended-remove from supplies

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Medication

- · Umbilical venous catheter
 - Preferred
- · Intraosseous
 - Reasonable alternative
 - Anything that can be given via UVC can be infused into an IO
- · Sodium bicarbonate is not recommended as a routine
 - Talk to your local neonatologist
- · Do not give Narcan/Naloxone to neonates
 - Positive Pressure Ventilation, monitor for apnea
 - Animal studies: pulmonary edema, cardiac arrest, seizures

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Thermoregulation	Thermoregulation	Post Resuscitation Care		
• For preterm deliveries:	• For less than 32 weeks:	• Who Needs It?		
- Increase room temperature to 23-25 Celsius (74-77 Fahrenheit)	- Plastic wrap or bag and thermal mattress and hat	 Babies who required supplemental oxygen or PPV 		
- Goal: axillary temperature of 36.5 to 37.5	- 3 lead electronic cardiac monitor with chest or limb leads	 Can post-resuscitation care be provided in mom's room? 		
 AORN recommends the OR is 68-75 degrees 	» Quick and reliable way to monitor heart rate	• Yes!		
- This is not specific to birth; discuss with your OR team	- T-piece resuscitator or flow inflating bag preferred	• Must have:		
 https://www.aorn.org/guidelines/clinical-resources/clinical-faqs/environment-of-care 		- Appropriate monitoring		
nego cirrionnen vi cae		 Prompt recognition of medical conditions that require intervention and 		
		- Initiation of the necessary treatment		
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Post Resuscitation Care

- · Risk factor review
- Monitor Temperature, Heart Rate, Respiratory Rate
- Oxygen Saturations and/or Cardiorespiratory monitoring
- Labs
- Glucose
- CBC, CRP
- Blood gas (capillary, venous, arterial)
- · X-Ray

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Ethics and Care at the end of life

- · Two Categories
- First:
 - Baby has no chance for survival
 - Initiation of resuscitation is not ethical and should not be offered
 - Examples are:
 - » Less than 22 weeks gestation
 - » Some congenital malformations
 - » Some chromosomal anomalies

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Ethics and Care at the end of life

- · Category Two
 - Conditions associated with high risk of mortality or significant burden of morbidity for the baby
 - » Parents participate in decisions whether resuscitation in baby's best interest
 - Examples:
 - » Birth between 22 and 24 weeks gestation
 - » Some serious congenital and chromosomal abnormalities

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Communication

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Best Practice Recommendations for Handoff
Communication
During Transport from a
Home or Freestanding Birth Center
To a Hospital Setting

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Quality Patient Care in Labor and Delivery: A Call to Action

"Attention to language, communication, and care practices can create a climate of confidence as well as enhance the woman's childbearing experience.

Every woman and newborn deserves ready access to quality maternity and newborn care that is respectfully provided; addresses identified health needs; and honors cultural and social preferences.

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BIRTH CARE PROVIDER to complete the sections that are applicable; demographic and prenatal information may be filled out in advance.

Appendix E: Maternal/Neonatal Transport Form from Home or Freestanding Birth Center

Demographic
Citera's Name

DOB Age

QP Age Weeks by CLMP US B-HCO First FHR

Individual(s) who will accompany the woman baby:
Name Relationship
Special considerations for the woman and her family:
Pernatal History (Additionally, please supply applicable prenatal records)
Current pregnancy course including any variations
Ultrasound findings
Labs/Pertinent findings
Prior pregnancy outcomes
Current medis supplements
Allergies
Hx of medical problems
Reason for Transport Details

A few things about testing	For Instructors
Start date January 1, 2017; Renew at your usual renewal date Eleven lessons Must do all eleven. No more options for 'basic' or 'advanced' On-line exam Now have 90 days to do skills testing after taking the on-line exam On-line simulation Think of this as a video game simulation	Instructor Toolkit No more in person instructor classes Must have current NRP Provider card Purchase toolkit and completed every 2 years Complete on-line exam For new instructors only: Find an instructor mentor
Skills testing	- Teach 2 classes with mentor
- Within 90 days of completing the on-line exam	Existing instructors indicate their preference to be a mentor or not
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