Table 17. Responses to	specific IA or EFM	findings
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FHR pattern	Associated/potential causes	Clinical action to consider if IA assessment	Clinical action to consider if EFM assessment
All atypical/abnormal FHR		Initiate EFM	
		Always consider intrauterine resuscitation	Always consider intrauterine resuscitation
Tachycardia >30 minutes Rising baseline Erratic baseline	Maternal  Fever, infection  Dehydration  Hyperthyroidism  Endogenous adrenaline or anxiety  Drug response  Anemia  Fetal  Infection  Prolonged activity or stimulation  Chronic hypoxemia  Cardiac abnormalities  Congenital anomalies  Anemia	Initiate intrauterine resuscitation Assess maternal temperature, pulse Review duration of ROM, presence of positive vaginal cultures (e.g., GBS) Consider ultrasound to assess for arrhythmia Maternal IV if indicated (e.g., dehydration)  If persists for >30 minutes, initiate EFM	Initiate intrauterine resuscitation Assess maternal temperature, pulse Review duration of ROM, presence of positive vaginal cultures (e.g., GBS) Consider ultrasound to assess for arrhythmia Maternal IV if indicated (e.g., dehydration)  If persisting >80 minutes total: FSBS if clinically feasible If the clinical situation and other FHS elements are normal, may consider ongoin vigilant observation Consider expeditious delivery if other elements of FHS are atypical or abnormal or as warranted by the clinical situation
Irregular FHR	Possible fetal arrhythmia	• Initiate EFM	Continue EFM and consider etiology and other investigations
Bradycardia	Hypoxia	Intrauterine resuscitation	Always consider intrauterine resuscitation
		Initiate EFM	Expedite delivery
Minimal variability of ≤5 bpm for >40 minutes Absent variability for >40 minutes	<ul><li>Fetal sleep</li><li>Prematurity</li><li>Medications</li><li>Hypoxic acidemia</li></ul>		Intrauterine resuscitation     Review history of predisposing factors     If possible:     apply FSE     perform FSBS     Prepare for delivery
Marked variability	Hypoxia     Fetal gasping movements     Unknown		Assess cause when >10 minutes:     Intrauterine resuscitation     If possible FSE, perform FSBS     Prepare for delivery if persists
Sinusoidal	Fetal anemia (Hb <70)     hypoxia/acidosis     Transiently present with healthy fetus		Consider clinical picture Scalp stimulation Intrauterine resuscitation Attach FSE if possible Consider Kleihauer Betke Middle cerebral artery Doppler if available Prepare for delivery
Accelerations	Fetal activity     Direct fetal sympathetic stimulation     Occlusion of umbilical vein only     Fetal scalp stimulation     Sympathetic increase following deceleration	No action	• No action
Absent acceleration with fetal scalp stimulation	Hypoxic acidemia     Fetal abnormality <sup>65</sup>	• Initiate EFM	If possible:         apply FSE         perform FSBS     Prepare for delivery
Deceleration	Autonomic response to factors including blood pressure changes, hypoxia and acidosis	Reposition woman     Listen again or initiate EFM	Intrauterine resuscitation     Check maternal vital signs     Further actions depending classification and overall clinical picture
Intermittent late decelerations OR Single deceleration >2 but <3 minutes duration	Decreased uterine blood flow due to maternal position     Fetal vagal/chemoreceptor response     Transient fetal acidemia		Intrauterine resuscitation     Check maternal vital signs     Continue to observe
Single prolonged deceleration >3 minutes duration	Fetal baroreceptor response may be related to:     tachysystole     severe cord compression     maternal hypotension/seizure     rapid fetal descent		Vaginal exam to rule out cord prolapse     Intrauterine resuscitation     Prepare for delivery

EFM: electronic fetal monitoring; FSBS: fetal scalp blood sampling; FHR: fetal heart rate; FHS: fetal health surveillance; FSE: fetal scalp electrode; GBS: group B Streptococcus; Hb: hemoglobin; IA: intermittent auscultation; IV: intravenous [infusion]; ROM: rupture of membranes.