## **EFM DEFINITIONS**

BASELINE FHR	Normal 110 to 160. Approximate FHR rounded to	
	increments of 5 beats/min during a 10-minute segment,	
	excluding periodic or episodic changes and periods of	
	marked variability.	
TACHYCARDIA	FHR > 160. at least 10 minutes	
BRADYCARDIA	FHR < 110. at least 10 minutes	
VARIABILITY	Fluctuations in the Baseline FHR of two cycles per minute	
	or greater. These fluctuations are irregular in amplitude	
	and frequency and are caused by interaction of the ANS	
	with the fetal SA node; presence usually means fetal	
	heart, ANS and oxygenation are normal	
ABSENT: - Amplitude range is undetectable		
	mplitude range or equal to 5 bpm	
	mplitude range 6-25 bpm	
MARKED: - A	mplitude range 25 bpm	
PERIODIC and EPISODIC	PATTERNS	
PERIODICassociate	ed with contractions	
EPISODICnot associated with contractions		
ACCELERATIONS	(periodic or episodic) acme is = or > 15 bpm above the	
	baseline and lasts = or > 15 seconds.	
	Before 32 weeks, the acme is = or > 10 bpm and lasts	
	+ or > 10 seconds.	
Episodic accelerations	Shape irregular or abrupt. Associated with fetal movement	
Periodic accelerations	More uniform shape, during contractions because of	
	sympathetic stimulation or reflex response to umbilical	
	vein compression	

## **EFM DEFINITIONS**

DECELERATIONS		
EARLY	<u>Gradual</u> decrease (onset to nadir = or > 30 seconds) and return to baseline FHR associated with contraction (PERIODIC). Uniform shape. Nadir at peak of contraction. Usually starts and ends in time with contraction. Caused by head compression or cerebral flow changes with vagal response.	
LATE	<u>Gradual</u> decrease (onset to nadir = or > 30 seconds) and return to baseline FHR associated with contraction. (PERIODIC) Uniform shape. Nadir after peak of contraction. Cause: uteroplacental insufficiency, acute or chronic.	
VARIABLE	<u>Abrupt</u> decrease (onset to nadir < 30 seconds) in FHR. Non-uniform and different shapes. PERIODIC or EPISODIC. At any time during contraction. Cause: cord compression, decreased cord perfusion.	
Recurrent decelerations:	More than 50% during a 20-minute window (otherwise, intermittent)	
Prolonged deceleration:	Lasts more than 2 minutes but less than 10 minutes.	
UNDULATING PATTERN	SinusoidalFetal compromise.	
	Pseudo sinusoidalMaternal narcotic use or fetal thumb sucking.	

## **EFM INTERPRETATION**

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<ul> <li>CATEGORY I: FHR include ALL of the following:</li> <li>Baseline 110-160 bpm</li> <li>Variability moderate</li> <li>Absent variable or late decelerations</li> <li>Accelerations present or absent</li> </ul>		
<u>CATEGORY II</u> :	Includes all the tracings that are not category I or III. May represent an appreciable part of those encountered in clinical practice.	
Any of the following:		
Baseline:	Bradycardia without absent variability Tachycardia	
Variability:	Minimal variability Absent variability without recurrent decelerations Marked variability	
Accelerations: Absence of induced accelerations after fetal stimulation		
Periodic or episodic decelerations		
	<ul> <li>Recurrent variable with minimal or moderate variability</li> <li>Prolonged decelerations &gt; 2 minutes but &lt; 10 minutes</li> <li>Recurrent late decelerations with moderate variability</li> <li>Variable decelerations with slow return to baseline</li> <li>"Shoulders" or "Overshoots"</li> </ul>	

## EFM INTERPRETATION

CATEGORY III: Includes either:		
Absent variability	+ Recurrent late decelerations	
	Recurrent variable decelerations	
	Bradycardia	
Sinusoidal pattern		
	ore than 5 contractions in 10 minutes er 30-minute window	