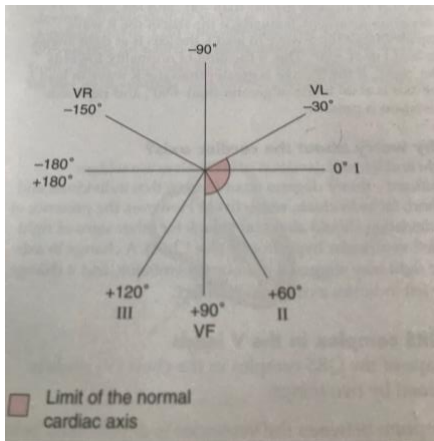


Teaching ECG interpretation

GLOBAL MARK			
CLEAR PASS	BORDERLINE PASS	BORDERLINE FAIL	FAIL

Criteria

Introduces Self, Confirms patient identify, Washes hands	2, 1
Checks comfort level of patient and gains consent for teaching	2, 1
Identifies current level of knowledge of learner	
Sets Objectives for sessions Introduce a system for ECG interpretation	
Explains indications	
Explains contraindications	
ECG – patient information recorded on it	
Paper – Large squares 5mm, 0.2s, Small squares 0.04s, or 40ms Speed is 25mm/sec	
Rate – 300/Number of big squares between QRS Or number of complexes on rhythm strip x6	
Rhythm – At this stage regular or irregular	
Axis – 	
P waves = should fit in 1 little box	
PR interval [beginning of P wave to beginning of QRS] 3-5 little boxes	
QRS – duration 2-2.5 small squares	
Q waves – ANY negative deflection that precedes the R wave. Big/Deep Q waves are bad [$>1\text{mm}$ wide $>2\text{mm}$ deep or in V1-3]	
QTc – Start of Q wave, end of T wave. Represents depolarization of the ventricles	

<p>QT/√RR [all measured in seconds] QT goes down as HR goes up.</p>	
<p>T waves</p> <ul style="list-style-type: none"> - Same direction as QRS - Shape - ?hyperkalaemia ?hypokalaemia - Hyperacute – broad, asymmetrically peaked, eg T wave > V6 QRS 	
<p>ST depression</p>	
<p>Other irregularities</p> <ul style="list-style-type: none"> Long QT Delta wave – slurred upstroke of QRS suggestive of WPW U wave – follows T wave, in hypokalaemia, bradyarrhythmias, hypothermia Epsilon wave – characteristic of arrhythmogenic right ventricular dysplasia (positive blip at end of QRS) Brugada – coved ST segment in V1-3 followed by negative T Osborn/J wave – hump at the j point (end of QRS) – hypothermia, hypercalcaemia 	
<p>Summarises ECG findings well</p>	
<p>Invites questions and manages them well</p>	
<p>Checks understanding</p>	
<p>Identifies further learning for learner to cover</p>	
<p>Summarizes session/objectives</p>	