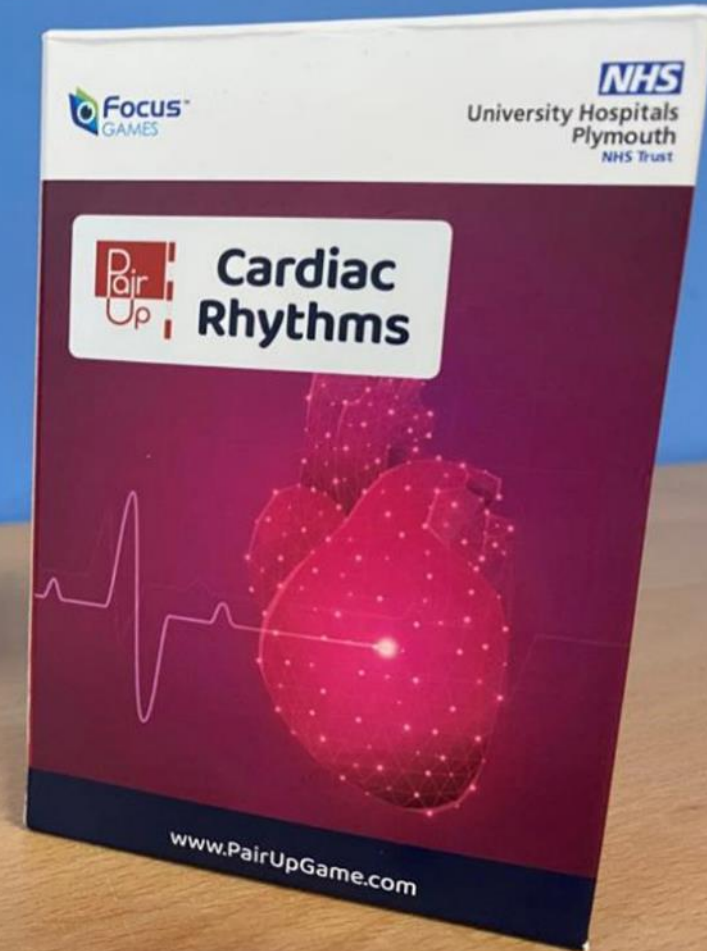
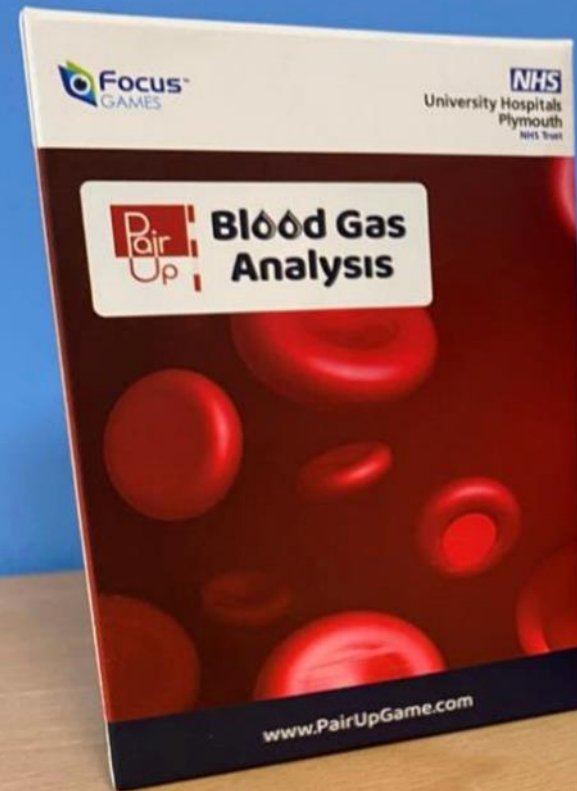


CRITICAL CARE GAMES WORKSHOP

*Karen Savva &
Kylee Hendrick*



PAIR UP

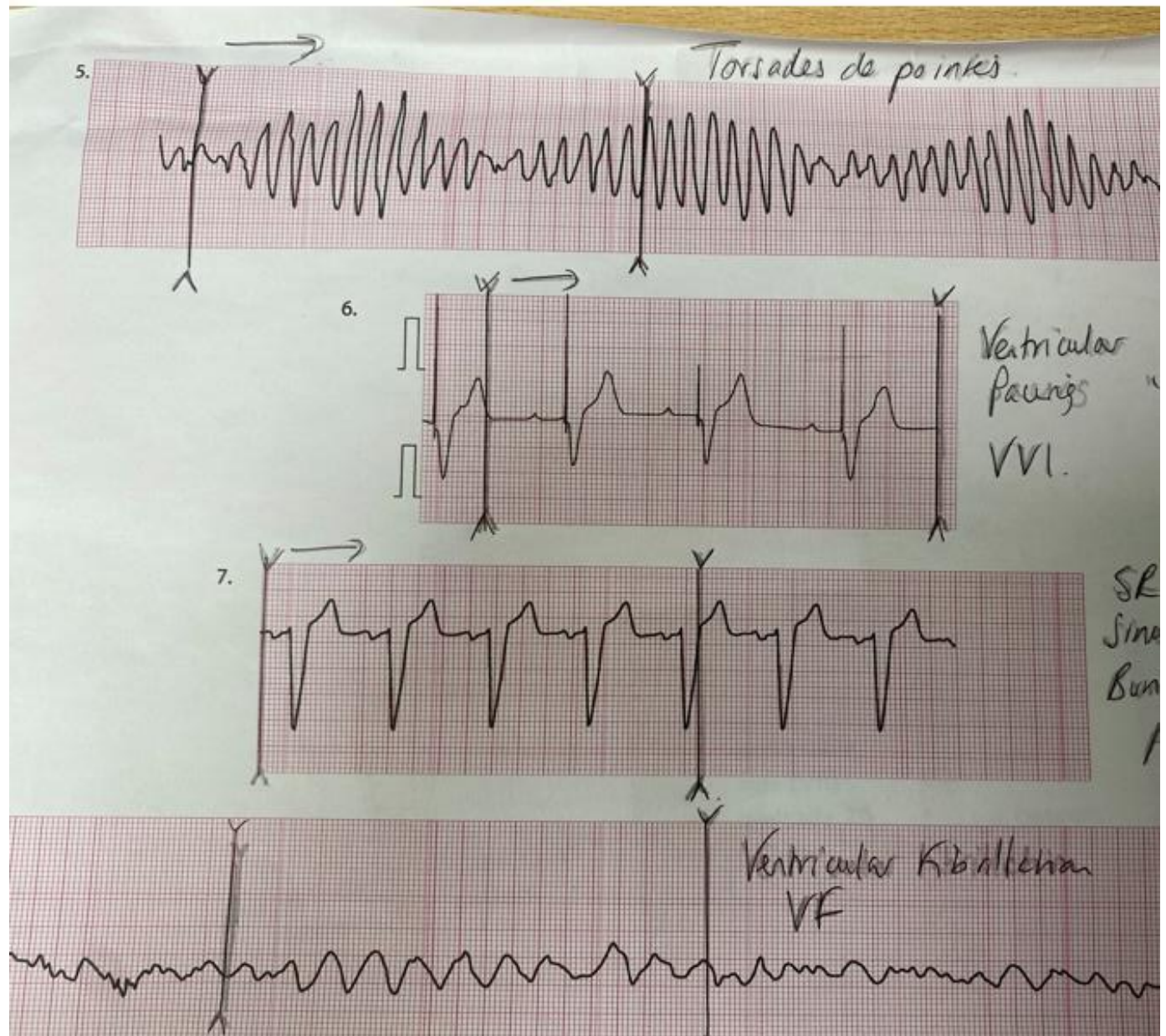
From random idea to
market...

Like Dragons Den or the
Apprentice but without the
cash!!

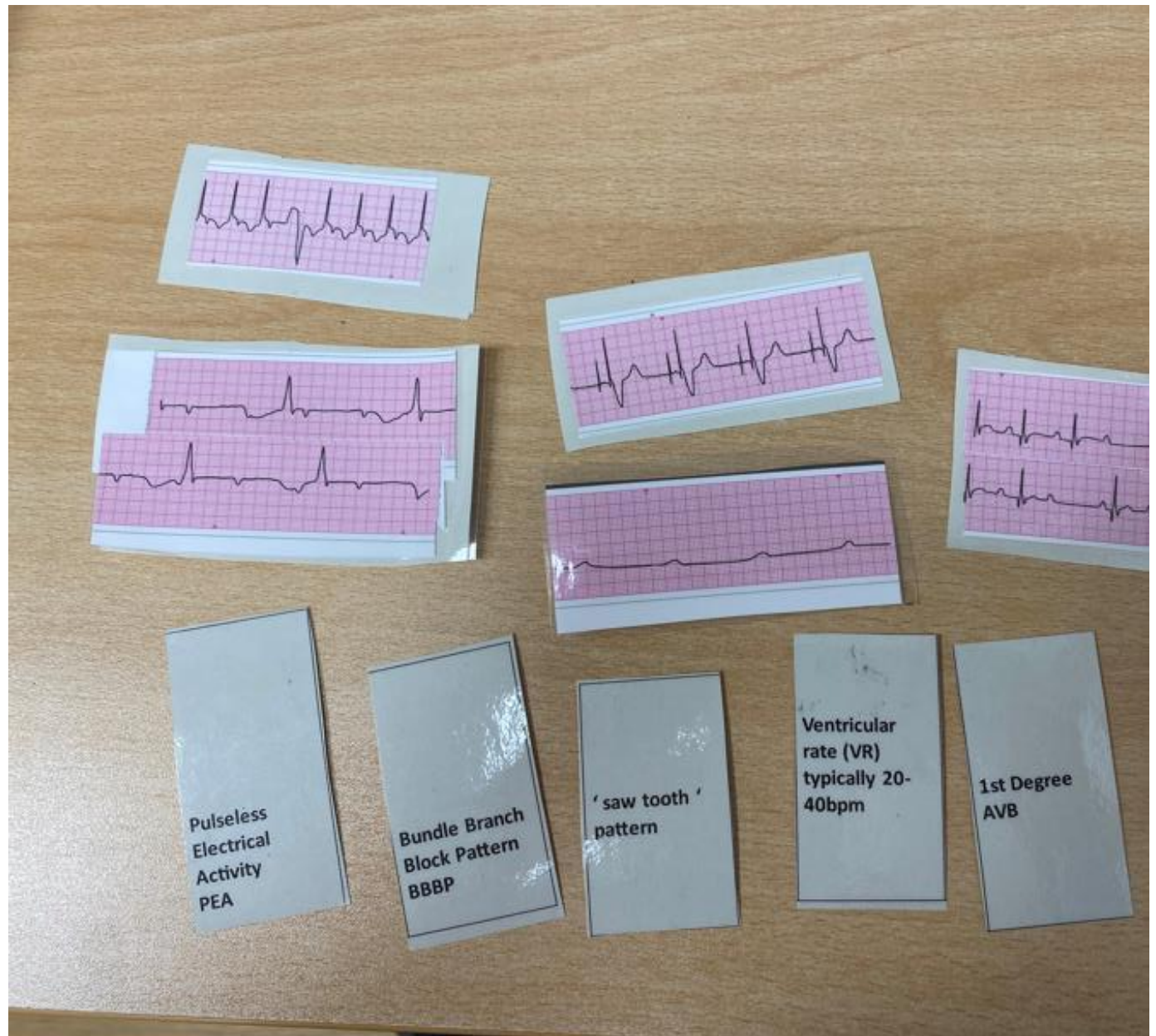




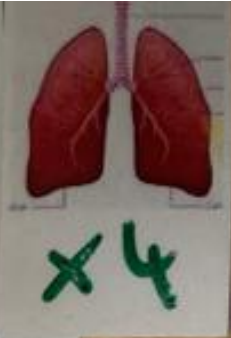
A work in progress...



It's coming
together



Laminated paper and scissors

RESPIRATORY ALKALOSIS	RESPIRATORY ACIDOSIS	METABOLIC ACIDOSIS	METABOLIC ALKALOSIS	
CO2 8Kpa	CO2 3Kpa	RESPIRATORY RATE 28 bpm	RESPIRATORY RATE 7 bpm	BASE 4.7 HCO3 31.0 + LAC
BASE 4.7 HCO3 31.0	BASE -4.5 HCO3 17.1	pH 7.36 CO2 7 Kpa BASE 6 HCO3 35	PH 7.37 CO2 3.1 BASE -4.5 HCO3 20	BASE -4.5 HCO3 17.1 + LAC

Engagement
from the
team...



Useful index
illustrates all
the matches

Sinus Bradycardia

PU-CR-P-01

QRS 0.08-0.10

P-R interval 0.12-0.20 sec

Bradycardia

P-R interval is constant

Has a P wave

Typically < 60 bpm

Regular rhythm

SINUS BRADYCARDIA

SINUS RHYTHM

SINUS TACHYCARDIA

ATRIAL FIBRILLATION

VENTRICULAR FIBRILLATION

VENTRICULAR TACHYCARDIA

P WAVE ASYSTOLE

ASYSTOLE

SUPRAVENTRICULAR TACHYCARDIA

ATRIAL FLUTTER

BIGEMINY

TRIGEMINY

MULTIFOCAL VENTRICULAR ECTOPICS

UNIFOCAL VENTRICULAR ECTOPICS

JUNCTIONAL RHYTHM

ATRIAL ECTOPIC

FIRST DEGREE HEART BLOCK

WENCKEBACH MOBILZ TYPE I

MOBITZ TYPE II

ATRIO VENTRICULAR DISSOCIATION

ATRIAL PACING

VENTRICULAR PACING

DUAL CHAMBER PACING

TORSADES DE POINTES

Online Resource Example

Sinus Bradycardia

PU-CR-P-01

QRS 0.08-0.10

P-R interval 0.12-0.20 sec

Bradycardia

P-R interval is constant

Has a P wave

Typically < 60 bpm

Regular rhythm

Online Resource Example

Respiratory acidosis

Respiratory Acidosis

Acidosis

Any pH < 7.35

Respiratory Rate < 10

pCO₂ 8KPa

Hypercapnia

Lungs picture

Any respiratory rate < 12bpm

Kidney picture

Metabolic compensation

Metabolic acidosis

Metabolic Acidosis

Acidosis

Any pH < 7.35

pCO₂ 3KPa

BE -4.5 mmol/L, HCO₃ 17 mmol/L, Lac 3

Diabetic Ketoacidosis

Kidney picture

Lungs picture

Respiratory compensation

BLOOD GAS ANALYSIS



Pair Up! Blood Gases is an easy-to-use, flexible teaching tool based on the “memory game”. It makes learning how to interpret blood gases fun, engaging and inclusive.



Cardiac Rhythm matches

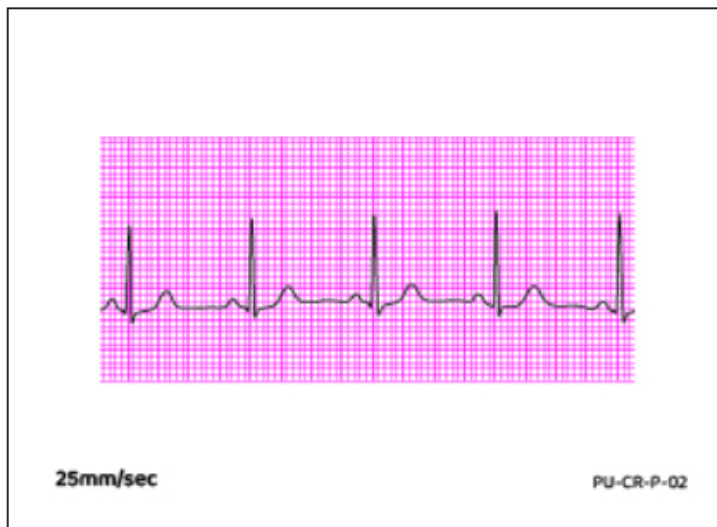
CARDIAC RHYTHMS



Pair Up! Cardiac Rhythms is an easy-to-use, flexible teaching tool based on the “memory game”. It makes learning how to recognise cardiac rhythms and understand their features fun, engaging and inclusive.

Learning conversations

EXAMPLE MATCH



Has a P wave

PU-CR-F-01

A white box containing the text "Has a P wave" in the center. The label PU-CR-F-01 is at the bottom right.

Different levels...

Example standard learning conversation:

Sinus Rhythm is our 'normal' heart rhythm. A p wave is a feature of sinus rhythm. Every QRS complex will be preceded by a p wave. The rate of SR is between 60-100bpm.

Example expanding knowledge learning conversation:

A p wave signifies atrial contraction, this contraction is timed within the cardiac cycle and contributes around 25% of stroke volume.

Example complex learning conversation:

Discuss the cardiac cycle and the effects of rising heart rate on cardiac output. P wave morphology and ways it can be affected by disease, p mitrale as a result of enlarged left atrium and p pulmonale as a result of enlarged right atrium.





ANY QUESTIONS ?

Let's play the game....

