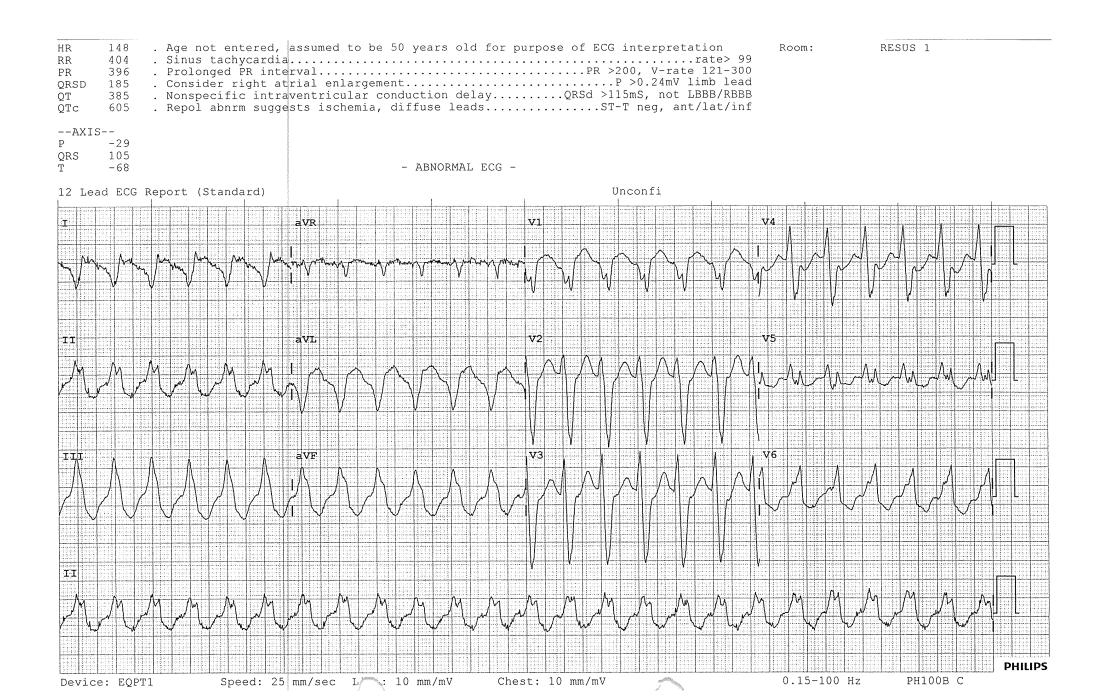
# QUIZ 20<sup>th</sup> June 2018 (answers below)

1.	Outline your management of patients with epistaxis.
2.	What discharge advice do you give to epistaxis patients?
3.	How do you insert a Rapid Rhino™?
4.	At what ßhCG level should a viable intrauterine pregnancy be visible or transvaginal ultrasound?
5.	Describe and interpret the following ECG.



# QUIZ answers 20th June 2018

#### 1. Outline your management of patients with epistaxis.

#### A. Resuscitation

Particularly in severe or prolonged epistaxis, consider need for:

- Airway management
- Blood transfusion/ MTP/Anticoagulation reversal
- Urgent ENT consultation

## B. First aid – (patients can be instructed to do this if it happens again)

Gently blow nose to clear clots

Pinch the SOFT sides of the nose against the septum

Hold firm pressure continuously for 10 minutes

Sit up and lean forward, spit out any blood in mouth

+/- Cold compress across bridge of nose

#### C. Examination

Try to determine which side the bleeding started from

Clear clots out – by patient gently blowing nose, or use soft Y suction

catheter snipped shorter so that there are no side holes

Spray CoPhyenycaine one/both sides

Visualise affected side looking for bleeding site

Headlight

Nasal speculum

May need more suctioning, wiping with swab

#### D. Ongoing bleeding

Cotton wool pledgets soaked in adrenaline 1:1000

Patient can apply first aid pressure with pledget in place

10 - 20 min

Can also try pledget soaked in tranexamic acid

# \*Consider posterior bleeding

Usually not minor bleeding

Bleeding from both nostrils

No anterior site found

Patient feels blood dripping down oropharynx

#### E. Cautery

If bleeding site found, can cauterize with silver nitrate stick
Risk of perforation is only if cauterizing septum bilaterally
Then apply small folded piece of surgicel and discharge instructions

#### F. Packing with Rapid Rhino

Only if failure of above measures

Commits patient to admission to hospital

Consider ENT help prior to insertion as it causes too much mucosal

trauma to remove again straight away for re examination

# 2. What discharge advice do you give to epistaxis patients?

For the next 3 days:

Avoid exertion, straining and heavy lifting
Avoid steaming hot food, drinks and showers
Avoid nose blowing
Use vasoconstrictor eg. Drixine
Use moisturiser on nasal mucosa bd
eg. Nasalate, chlorsig ointment, bactroban, vaseline
Provide first aid (as above) if recurs and return if epistaxis persists

# 3. How do you insert a Rapid Rhino™?

- > Remove blue cover
- Soak in sterile water for a full 30 seconds

Don't use saline as it inhibits the gelling characteristics of the fabric. Don't use lubricant or antibiotic ointment, as they will inhibit the haemostatic properties of the fabric.

- Insert the device along the septal floor and parallel to the hard palate until the plastic proximal fabric ring is well within the nares.
- Use a 20mL syringe and inflate the device with AIR.

Stop the inflation when the pilot cuff becomes rounded and feels firm when squeezed.

The amount of air depends on the size of the patient's nasal anatomy.

Tape the pilot cuff to the side of the patient's face.

# 4. At what ßhCG level should a viable intrauterine pregnancy be visible on transvaginal ultrasound?

2000IU/L.

There is much variability between patients and it is operator dependant. Ideally, patients would have their ultrasound done by sonographers and radiologists that specialise in early pregnancy ultrasound.

You may have noticed that the discriminatory zone has increased over the last 10-20 years, despite advances in ultrasound technology. This is thought to be because of the increase in multiple gestations, where a higher BHGC is seen at an earlier stage of pregnancy. Interesting, huh?

Most places use a discriminatory zone of 2000IU/L. Above this level, a normal viable pregnancy should be visualised. However, if a viable pregnancy is not visualised, this is not diagnostic of a non-viable or ectopic pregnancy.

Shaunik A et al <u>Utility of dilation and curettage in the diagnosis of pregnancy of unknown location</u> Am J Obstet Gynecol 2011;204(2):130.e1-136.e1

Results from the above study showed that among women with a pregnancy of unknown location and hCG levels of 2000 - 3000 IU/L, there were 19 ectopics and 38 non viable pregnancies for each 1 viable intrauterine pregnancy. The important point to appreciate here is that the most common cause of an hCG above 2000 without visualisation of pregnancy is actually non viable pregnancy, rather than ectopic.

Women with ectopic pregnancies have highly variable hCG levels, often less than 1000IU/L. The hCG level does not predict the likelihood of ectopic pregnancy rupture. That is, a single hCG value, even if low, does not rule out a potentially life-threatening ruptured ectopic pregnancy. Hence, ultrasonography is indicated in any woman with a positive pregnancy test who is clinically suspected of having an ectopic pregnancy.

Doubilet et al <u>Diagnostic Criteria for Nonviable Pregnancy Early in the First Trimester</u> N Engl J Med 2013; 369:1443-1451

# 5. Describe and interpret the following ECG.

Rate 148/min

Regular

No AV dissociation, capture or fusion beats seen

P waves None

What looks like possible P waves in V4 corresponds to obvious T waves

in other leads

QRS Wide complex 0.19 – 0.2 sec

Axis is northwest axis (I and II are negative, III is isoelectric)

Morphology criteria for VT in LBBB pattern

Notched S wave in V1 (Josephson's sign)

- Wide R wave in V2 >0.04s

- QRS duration to peak of S > 0.10s (Brugada's sign)

ST/T Generally opposite in polarity as expected in BBB

→ Ventricular tachycardia

This patient was 78 years old. This makes diagnosis of ventricular tachycardia highly likely, regardless of meeting Brugada criteria.

This patient has an AICD but the ventricular rate was not fast enough to initiate antitachycardia pacing. The pacemaker technician performed antitachycardia pacing and reverted to the rhythm to sinus rhythm. The settings now have a lower threshold for commencement of antitachycardia pacing.