00:00:20 Faculty

Hi guys, you're the night team, then? Yeah. I'm FACULTY.

00:00:29 Faculty

He's a trauma patient from the Emergency Theatre. Basically he's 38, Harry Cooper and he's been riding his horse earlier in the afternoon.

00:00:38 Faculty

Was bucked from his horse, landed on the ground and the horse kicked him in the tummy. No loss of consciousness and hit the ground and a passerby witnessed this, so called 999.

00:00:48 Faculty

When he came into the emergency department, he was a hypotensive and tachycardic and complaining of pain in his tummy and in his right shoulder. No respiratory concerns and no neurological concerns.

00:00:58 Faculty

He had a lactate of 4 when he came in and a haemoglobin of 13 from initial gas.

00:01:04 Faculty

And he had a CT scan with tummy and full trauma series, and that revealed a splenic laceration with quite a lot of intra abdominal blood and a small bowel perforation.

00:01:14 Faculty

He's also fractured his right humorous, but it's undisplaced, and that's just the conservative management. They've cleared his CT, radiologically

00:01:22 Faculty

So basically, he had a trauma call, obviously in the ED, activated and made a haemorrhage protocol. He's had a gram of tranexamic acid in the ED and then we've been running a gram since then.

00:01:34 Faculty

He went straight to theatre, had a trauma laparotomy and they removed the spleen. They resected the pathway on the bowel and they reanastomosed with no concerns there.

00:01:45 Faculty

But they've left the tummy open.

00:01:46 Faculty

And depending on how he is he may go back to the theatre tomorrow or the next day.

00:01:50 Faculty

He's had a lot of blood, so he's had eight units of red cells, 4 FFP, 2 platelets in total.

00:01:57 Faculty

We think he lost about 3 litres of blood in the theatre, so we had a rapid sequence induction.

00:02:03 Faculty

It was straightforward. He was a Grade 1 intubation and he's ketamine, fentanyl and rocuronium. He's got size 7 tube.

00:02:10 Faculty

Tied at 22 centimetres. The left internal jugular central line and a left radial art line and cannula and the right ACF.

00:02:18 Faculty

He's got a catheter. He's peed a small amount. I get the feeling he's about to start peeing properly though and and I gave him a gram of paracetamol about half an hour ago.

00:02:28 Faculty

So about 9:30 PM, I gave him (drug) and (drug) and around a similar time. He's had a total of 400 mics (micrograms) of fentanyl in the theatre and he's on a bit of NORAD.

00:02:39 Faculty

Quite a bit now. 8 mils.

00:02:42 Faculty

He didn't seem very fluent, responsive anymore. He's had a few ventricular ectopics.

00:02:46 Faculty

But haven't needed to treat them.

00:02:53 Doctor

What about his chest?

00:02:55 Faculty

So no chest injuries that we're aware of.

00:03:01 Faculty

Just the arm is the main thing and the spine. No allergies. Social smoker, drinks about 20 units of alcohol a week and had some childhood asthma, but he's not on regular inhalers.

00:03:20 Faculty

Not due a look for a couple of hours.

00:03:23 Faculty

He is propafol and fentanyl.

00:03:27 Faculty

Alright, anaesthetic chart and that's the last gas that I've done.

00:03:39 Doctor

Let's just have a look.

00:03:46 Doctor

Is that his heart rate?

00:04:00 Faculty

That's his initial ECG.

00:04:02 Faculty

And that's his gas.

00:04:08 Nurse 1

Can you take it each time?

00:04:11 Nurse 2

I don't know.

00:04:12 Nurse 1

Can you take it now?

00:04:13 Nurse 2

I don't know.

00:04:15 Doctor

Why don't you take him in and we'll get a full set of blood flow.

00:04:19 Doctor

Yeah, all of the usual stuff.

00:04:22 Doctor

Can you send off?

00:04:32 Doctor

I'll just check we've got this available as well.

00:04:36 Faculty

We have.

00:04:44 Doctor

Gonna do an admission ECG anyway, but can we just do it just now? That ok?

00:04:47 Nurse 1

Yep.

00:04:49 Doctor

Would you mind doing that?

00:04:53 Nurse 2

Do you want me to record a quick assessment?

00:04:56 Nurse 1

Can we do an ECG?

00:05:02 Faculty

They're just using the ECG machine in section C so I'll do another ECG whenever.

00:05:12 Nurse 2

Sats have dropped a little bit.

00:05:19 Doctor

Are you able to remotely control this then?

00:05:21 Doctor

Tidal volumes have dropped.

00:05:50 Doctor

Let's just see if we can actually bag him then.

00:05:55 Nurse 1

I'll listen to his chest.

00:06:16 Nurse 2

Just doing 2 7 point 4.

00:06:23 Faculty

Peaks on five so put it up and keep it up at 28 over 5.

00:06:28 Nurse 1

HP's good 110.

00:06:32 Nurse 1

Potassium is a bit low.00:06:35 Nurse 1

Lactate is 4.

00:06:40 Doctor

It's on 20 maps.

00:06:46 Nurse 2

He's running at 1.5

00:06:48 Nurse 2

Give him, what, a mill?

00:06:52 Nurse 1

He's become more tachycardic as well.

00:07:04 Faculty

That is the gas that we've got.

00:07:12 Doctor

OK. Well, better get a chest x-ray.

00:07:18 Nurse 1

We could sit him up a little bit.

00:07:24 Nurse 1

I'm gonna give you a suction, alright Harry?

00:07:27 Nurse 1

So if you got anything on your chest.

00:07:43 Nurse 1

Can I reposition the bed?

00:07:45 Faculty

How would you like it?

00:07:47 Nurse 1

I just want to sit him up a bit more just to help breathing.

00:08:16 Faculty

So this is the net going up then?

00:08:19 Faculty

I don't have a connection for it.

00:08:21 Doctor

The other thing we can do is squeeze it in.

00:08:27 Nurse 2

Got some ketamine.

00:08:35 Doctor

His chest doesn't look fine?

00:08:43 Nurse 1

The lactate...

00:08:44 Faculty

How much ketamine do you want?

00:08:46 Doctor

Can you draw up just 10 milligrams in there per mill?

00:08:48 Doctor

So if it's a 50 millilitre vial, put 2 mills in a normal syringe

00:08:58 Nurse 2

Did you say 10 milligrams per mil?

00:09:01 Doctor

Yes, please.

00:09:02 Nurse 2

So up to 5 mills then.

00:09:09 Doctor

It's been on actually between 70 and 100% oxygen.

00:09:14 Nurse 1

So there's no chest injuries?

00:09:20 Doctor

He has a nasty looking bruised chest.

00:09:22 Nurse 1

Have we ordered a chest x-ray?

00:09:27 Nurse 2

Chest x-ray is just there.

00:09:32 Nurse 2

Got CT report.

00:09:59 Nurse 2

Do you just want 20 millimols?

00:10:00 Doctor

Yeah

00:10:03 Doctor

You've got 2 grams in a vial, you can just stick in 100 mills

00:10:09 Faculty

Can we just pause the scenario now?

00:10:12 Faculty

Been silencing your vent alarm because it is alarming, high, high. Everything else is OK

00:10:28 Faculty

To recap, you were looking at the vent, it was alarming for high tidals. And your magnesium, ketamine is drawn up. And you were in the middle of asking for magnesium.

00:10:45 Faculty

Do you want magnesium?

00:10:46 Doctor

Yeah.

00:10:48 Faculty

And that's your ketamine.

00:10:53 Nurse 1

I feel like we're missing what's going with the chest.

00:10:55 Doctor

Ohh it was wheezy.

00:11:02 Doctor

And then I'm just gonna have a look at his x-ray.

00:11:08 Nurse 2

Have the blood results come back as well?

00:11:11 Nurse 1

Not yet.

00:11:24 Faculty

That nebulizer has finished now. We’ll take that away.

00:11:39 Nurse 1

Sats are dropping again.

00:11:42 Doctor (to Nurse 2)

Can you stick that (on screen) back up again?

00:11:52 Nurse 2

It was on 28.

00:11:57 Nurse 2

Sats are up to 82 now.

00:11:59 Nurse 2

81, it's going down.

00:12:04 Doctor

Can you attach up the C circuit?

00:12:12 Doctor

Can you still suction?

00:12:16 Nurse 1

Last time I suctioned, yeah I could.

00:12:30 Faculty

Not much coming up from there from suction

00:12:33 Doctor

Not much coming up.

00:12:36 Nurse 1

Becoming more tachycardic.

00:12:39 Nurse 1

Blood pressure's being compromised

00:12:45 Nurse 1

Is that ECG available yet?

00:12:48 Doctor

I'm just gonna get the adrenaline fine, because we're losing it. Anything else different externally?

00:12:56 Faculty

No, nothing.

00:13:16 Doctor

What's going on with his rhythm?

00:13:22 Doctor

But he's got a good (unintelligible)

00:13:28 Nurse 1

Do we do a repeat gas?

00:13:47 Doctor

Can we get some adrenaline?

00:14:19 Doctor

What's his temperature?

00:14:22 Nurse 2

I don't think it's right.

00:14:44 Doctor

So it looks like it's moving less on that right hand side.

00:14:57 Nurse 2

Are we worrying about tension pneumothorax?

00:15:00 Nurse 1

You want me to get the chest drains ready?

00:15:06 Doctor

Could be shifting air.

00:15:40 Doctor

Did we say what his temperature was in the end?

00:15:48 Faculty

37.2

00:15:50 Doctor

It's a little decompressing.

00:16:06 Nurse 1

Can I get one more NORAD?

00:16:18 Nurse 1 (on phone)

Could you put me through to pathology, please?

00:16:42 Nurse 1 (on phone)

Can you get them to ring me back?

00:16:54 Doctor

Is he getting easier to ventilate now?

00:16:57 Doctor

Must be pneumothorax.

00:17:12 Nurse 1 (on phone)

We have a patient Harry Cooper and we are concerned that he has a penumothorax.

00:17:28 Doctor

Just leave them on 100 and see if it settles down.

00:17:35 Nurse 1

Can we set up for a chest x-ray?

00:17:35 Faculty

I'll get that sorted.

00:17:37 Nurse 2

Got a blood gas.

00:17:39 Doctor

Yeah. How's it looking?

00:17:47 Nurse 1

Any drug you want me to get ready?

00:17:55 Nurse 2

Should I reduce the IP because it's got big volumes again?

00:18:15 Faculty

Gas machines just calibrated.

00:18:43 Doctor

300 mills high.

00:18:49 Doctor

Just sounds really...

00:18:52 Faculty

Do you still want me to get you 12 lead before they've finished with the ECG machine?

00:18:57 Faculty

They've finished with the ECG machine in there. Do you want me to?

00:19:06 Doctor

We've got pressure but it's not the best.

00:19:08 Doctor

Let's get him a little bit of NOR adrenaline.

00:19:27 Doctor

Ok, we should probably make an attempt to cardiovert him.

00:19:31 Doctor

How much magnesium?

00:20:39 Nurse 2

Do you mind, just taking over CPR?

00:20:47 Faculty

So I'll bag then.

00:20:58 Doctor

Ok, we're going to charge.

00:21:04 Doctor

Step right back.

00:21:26 DEFIB AUTOMATED VOICE

15 seconds without sign of compression.

00:21:41 DEFIB AUTOMATED VOICE

30 seconds without sign of compression.

00:21:42 Nurse 1

Stop now.

00:21:50 Doctor

He's got decent blood pressure.

00:21:56 DEFIB AUTOMATED VOICE

45 seconds without sign of compression.

00:22:05 Doctor

So just to recap, should we get on the vent then?

00:22:12 Doctor

And then let's give him some ameodine.

00:22:17 Nurse 1

How much do you want me to give? Make it in a syringe?

00:22:21 Faculty

The scenario is finished.