

Appendix 3, Excerpt C

Abbreviations: Phys1-2: Physicians from internal medicine department, EDphys: Physician working in the emergency department, EDnurse1-3: Nurses working in the emergency department, AN: Anaesthetist, NurseAN: Nurse anaesthetist. Radiographer.

Transcript key: X: word not audible, XX: words not audible, [words]²: overlapping speech (the numbers indicate the order of the nearby overlap), -: unfinished words or sentences, (.): micropause, (3): seconds pause.

Situation: Patient is > 70 years old, living at home. Indication for hospital admission: syncope. The patient was awake and adequate with no pain at arrival. The anaesthetist is performing an ultrasound and preparing to place a central venous line in the patient's neck area. ED nurse 1 is preparing to insert a urine catheter, and the ED physician is standing beside the bed. The nurse anaesthetist is securing the patient's arterial cannula, and physicians 1 and 2 are standing beside ED nurse 2 at the logging desk. The bed is not functioning properly and cannot be tilted head down for the central venous line procedure, and a chest X-ray has just been taken.

Utterance number	Speaker	Utterance	Speakers action	Other action
311	AN	[Her venous volume] ¹ is good. The question is if it's simply turned off-	Looks at the ultrasound screen to be used during insertion of the central venous line.	EDphys leans forward to look at the same ultrasound screen as AN.
312	EDphys	Is it cardiogenic shock?	Looks at AN.	
313	AN	Well-. But, I mean. If you take- If you look at the vein here. Can you see it?		
314	EDphys	Yes, I see. It's enor[mous] ² .	Looks briefly at the patient.	
315	AN	[Yes.] ² Yes.		
316	EDphys	She is actually lying well X as well.		
317	AN	That might [indicate that she has-] ³		

318	EDphys	[We could look at the] ³ [vena cava also.] ⁴		
319	Radio-grapher	[Thorax is fine at least] ⁴ or at least technically speaking. Must look at the image yourself. Take this away now. Anyone who could help to lift a bit? (3) [Thank you] ⁵	Looks towards EDphys. Removes the X-ray cartridge beneath the patient's back.	Phys1 approaches and lifts the patient on the opposite side of the radiographer. AN looks at the X-ray image on the screen at the back of the room.
320	AN	She does have a [wi-] ⁵ . [She has-] ⁶ (2) [I think ehm-] ⁷ Come and have a look here (3). What's his name again-?	Switches off the alarm on the monitor. Looks at EDphys. Beckons with her hand, "here"	EDphys stands with his back to AN at the foot of the bed and works at ultrasound machine 2.
321	EDphys	[Would you fetch more gel?] ⁶	Looks at EDnurse2, who is standing at the logging desk. Then turns towards AN	
322	X	I don't know where [XX] ⁷		
323	X	The small heating cabinet innermost over there.		
324	NurseAN	NAME (patient)? Are you awake?	Secures the patient's arterial cannula and looks briefly at the patient	
325	EDphys	XX	Looks at AN and brings ultrasound machine 2 and rolls it towards the bed	
326	AN	Come and look at the X-ray here. The mediastinum is widened.	Returns to the screen with the X-ray image	EDphys walks around the bed on AN's right-hand side. Together with Phys1 and Phys2

327	Patient	Ouch.		
328	NurseAN	Was it your hand that was hurting?		AN points at the X-ray screen
329	Patient	[Yes XX] ¹		
330	AN	[I don't know if there's something ongoing] ¹ X just-	Looks at EDphys pointing to the X-ray screen	
331	EDphys	Yes	Looks at the X-ray screen.	Phys1 and 3 look over EDphys's shoulder. AN walks to the patient monitor and pauses the alarm, then turns to EDphys again.
332	AN	Yes. Eeh that is, it is X.	Standing together with EDphys, Phys1 and Phys2.	
333	NurseAN	Are you going to take more here?	Taking off her lead apron Looks at the radiographer.	Radiographer is moving the X-ray scanner.
334	Radio-grapher	[Finished, yes] ²	Pushes the X-ray scanner back into place	EDphys shrugs his shoulders slightly when he turns to walk towards Phys1 and Phys2
335	AN	[Now her blood pressure is falling.] ² Do we have some pressor-?	Looks at the patient-monitor.	EDnurse2 is standing with ultrasound -gel in his hand.
336	NurseAN	What would you like?	Takes off the lead apron and walks around the bed to put it away	
337	AN	Eeeh. What's the pulse rate then?	Unpacks the kit for central venous line placement.	
338	Phys1	[XX] ³	Walks behind EDphys, turning his	

			head back to look at Phys2	
339	NurseAN	I've got phenylephrine, ephedrine and [epinephrine] ³	Walks back around the bed and to the anaesthesia table next to AN at the head of the bed..	EDphys stands at the foot of the bed next to the ultrasound machine 2.
340	AN	[Give her] ³ [ephedrine now] ⁴	Looks at the patient monitor. Continues unpacking equipment as she speaks.	
341	Phys2	[Could it mean anything other than XX?] ⁴	Walks up to EDphys, behind Phys1.	
342	NurseAN	X	stands next to the anaesthesia table next to AN.	
343	EDphys	Then I will- (2) Chest X-ray shows widened mediastinum. So, we must suspect there's an aortic dissection causing her low blood pressure.	Stands at the foot of the bed. Looks first at EDnurse2, who is standing behind him, then turns towards the room. Talking aloud.	
344-363	AN asks for a gauze mask. EDphys seeks supplementary information from the patient and then prepares for the ultrasound examination of vena cava. EDnurse1 informs the patient about inserting the urine catheter.			
364	AN	We are working a bit on (.)-. A bit from different angles here now. (4) Eeh. [Look at the liver] ⁶ then eeh vena cava.	Putts on the gauze mask.	EDphys examines the thorax and abdomen using ultrasound. Phys1 leaves the video frame, walking to the left.
365	X	[XX] ⁶		Phys2 stands next to Phys1 at the outer edge of the video frame (left)
366	EDphys	I'll look at that too.		

367	AN	Yes. (1) I'm going to insert a central venous line, so we could start with norepinephrine if necessary while- because if it gets XX then it is after all- (2) [But then-] ⁷		EDnurse1 is preparing for placing a urinary catheter.
368	NurseAN	[Do you want ephedrine?] ⁷	Turns towards AN.	
369	AN	Yes. But someone mix norepinephrine in like a eeh constant infusion pump?	Does not raise her eyes from what she is doing while she is speaking	NurseAN walks around the bed with medication
370	EDnurse 2	Are you inserting one with a temperature sensor?	Standing at the logging desk.	EDnurse1 turns towards EDnurse2.
371	EDnurse 1	No sensor on the one I have here now, no. [Did you] ⁸ want one?	Turns toward EDnurse2, who is standing at the logging desk.	
372	EDnurse 2	[Not?] ⁸ XX		
373	EDnurse 1	Would you go and get one then?		
374	EDnurse 2	Yes		
375	AN	Let's see-		
376	EDphys	Doesn't it look widened here then?	Points at his ultrasound screen.	Phys1 and Phys2 stand next to EDphys and look at the ultrasound screen. Phys1 and Phys2 shake their heads
377	NurseAN	5 milligram ephedrine given	Adjusts the roller clamp on the IV administration set for the infusion bag connected to the intravenous catheter on the patient's left hand	EDnurse3 enters.

378	AN	Then we must keep an eye on XX. Let's see- Take a deep [breath] ¹	Looks to the patient monitor and touches the screen	
379-393	AN asks NurseAN to help her to put on a sterile gown. EDphys says he can see vena cava on the ultrasound screen.			
394	EDphys	The vena cava inferior is hardly moving. [So it] ¹ is obstructive or cardiogenic shock.	Looks at AN	
395	AN	[XX] ¹ (3) Yes.(1) But is it-. Should a pericardiocentesis be done, or is it-? (2) Let's see-	Waves her hands and turns toward NurseAN.	NurseAN stands at the cabinet at the back of the room EDphys looks at the ultrasound screen
396	EDnurse 3	XX	Brings new urinary catheter	
397	EDnurse 1	Yes. Could you help me with this [XX] ² NAME (EDnurse3)	Looks at EDnurse3	EDnurse3 helps the patient bending her knees.
398	AN	[Sterile gloves?] ²		
399	EDnurse 3	XX. Someone is fetching them.	Looks at EDnurse3, then EDnurse1.	NurseAN walks towards the foot of the bed
400	AN	Someone's fetching them, OK.		EDnurse2 brings sterile gloves, which he gives to NurseAN
401	NurseAN	Bring XX with X and two of X	Takes the package of sterile gloves from EDnurse2 and goes to AN	
402	AN	Remind me to phone X. (2) Has a thoracic surgeon been called? Or a thoracic anaesthetist- to come and assess- (3) In terms of status.	Opens the glove package	EDnurse1 and EDnurse3 insert the urinary catheter
403	EDphys	Yes.		