



SCENARIO 35 - MARTIN MASTERSON

MEDICAL CATEGORY: NEUROLOGY CASE DIFFICULTY: ADVANCED SIMULATION ENVIRONMENT: EMERGENCY ROOM

These patients are not real patients and their clinical cases, whilst clinically plausible, are fictional.

Case 35

Martin Masterson

Version: V7

OVERVIEW Martin was found by his daughter lying down on the floor of his house with left-sided weakness including facial asymmetry. Martin's daughter called immediately the emergency unit and he was brought to the Hospital. CONTEXT Male, seventy five years old. Obese, high blood pressure, diabetes. Patient was found by his daughter lying down BRIEFING on the floor with a bruise in his left arm and with left hemiparesis, 3 hours ago. Patient was completely asymptomatic 6 hours ago. GENERAL Recognize acute stroke; Start vital signs vigilance in acute care; LEARNING OBJECTIVES Performance of neurological assessments (NIHSS); SPECIFIC Blood pressure management in acute stroke; dae of relative and absolute of to altoplace

		Knowledge of relative and absolute contrain	idications to all	epiase	
		Patient name: Martin Masters	son	Age (years):	75
		BMI: 31.7 (obesity)		Sex:	Male
PATIENT ARACTERIZATION	Weight (kg): 95		Height (cm):	173	
		Weight (lb): 209		Height (in):	68
		Chronic conditions: Hypertension;	Type 2 diabete	es.	

Notes:

CH/

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ABCDE ASSESSMENT

CATEGORY	PARAMETERS	EVALUATION	PRIORITY
AIRWAY	Breath sounds	Normal	1st Priority
AIRWAY	Airway observation	Clear	1st Priority
	Signs of respiratory distress	Normal	1st Priority
	Respiratory rate	12/min	1st Priority
	Chest excursion	Normal	1st Priority
	Chest deformity, raised JVP, chest drains	Normal	1st Priority
BREATHING	O2 Sat	95%	1st Priority
BREATHING	Chastersussian	Right: 1R- resonance; 2R- resonance; 3R- resonance; 4R- resonance; 5R- dullness	
	Chest percussion	Left: 1L- resonance; 2L- resonance; 3L- superficial cardiac resonance; 4L- superficial cardiac resonance; 5L- resonance	Not a Priority
	Chest palpation	2L- normal; 2R- normal	Not a Priority
	Pulmonary auscultation	Normal	2nd Priority
	Hands and digits	Pink and warm	1st Priority
	Heart rate	87 bpm	1st Priority
	Peripheral pulses	Carotid- Strong and regular; Radial- Strong and regular, equal on both sides; Femoral- Strong and regular, equal on both sides; Dorsalis pedis- Strong and regular, equal on both sides.	Not a Priority
CIRCULATION	Blood pressure	164 / 91 mmHg	1st Priority
	Capillary refill time (CRT)	1.3 seconds	Not a Priority
	Heart auscultation	Normal	2nd Priority
	Urinary output	0.59 mL/kg/h / 56.05 mL/h	2nd Priority
	External hemorrhage (wounds), drains, concealed hemorrhage	No	2nd Priority
	Pupils (size, equality and reaction to light)*	Equal and reactive to light	2nd Priority
DISABILITY	Level of consciousness (Glasgow Coma Scale)	14 (E4-V4-M6)	2nd Priority

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		Blood Glucose	159 mg/dL / 8.8245 mmol/L			1st Priority
		Full body (front)*	Normal			Not a Priority
	EXPOSURE	<u>Full body (back)*</u>	Normal			Not a Priority
		Abdomen percussion	6R- tympanic; 7R- tympanic;	6L- tympanic; 7L- tympanic		Not a Priority
		Abdomen palpation	No rigidity, mild tenderness,	no pain. No visceromegaly.		Not a Priority
		Temperature	36.5 °C / 97.7 °F			2nd Priority

* In the current version of the case, these procedures are not implemented.

Clinical Information

Source:	Emergency medical team report
Previous medication:	- Takes lisinopril 20 mg daily, metformin 2000 mg daily, aspirin, 100 mg daily.
Other information:	 Left-sided weakness detected 3 hours ago; Family member informed that patient was seen last time without symptoms 6 hours ago, he was found lying down with a small bruise in the left arm.
Note:	This information will appear automatically 3 minutes after the start of the simulation.

DIALOGUES

Specification of dialogues with the patient during simulation:

CATEGORY	Question Availability	#	QUESTION	PATIENT REPLY	REPLY CONDITIONAL	PRIORITY
	-	1	How are you feeling?	I doon't feel muuch the left side of my boody. It seems thaat I doon't haave much streeentgh on my left side.	-	1st Priority
	After question 1 is asked	2	What happened to you?	I remeember that suddeenly, I felt weeaak on my left siide, and fell, on the floooor.	-	1st Priority
	-	3	Concomitant health conditions?	I have diabeetes and a high blood pressuure, that I knoow oof.	-	2nd Priority
Medical	-	4	Feeling pain?	Noo, I oonly doon't haave streengh on the left siide of my boody.	-	1st Priority
condition		5	Diabetes diagnosis?	Yes, my douctor toold me that I haave, after my laast blood teaasts.	-	1st Priority
	-	6	Any recent weight changes?	Noo that I've nooticed. I always have been overweeight.	-	Not a Priority
	-	7	History of severe illness?	Noou, I never haad any serioous disease in my wholee liife.	-	2nd Priority
	After question 2 is asked	8	Time since symptom onset?	I caan't remeember when I staarted feeling liike thiis.	-	1st Priority
	-	9	Do you have any allergies?	Noo.	-	2nd Priority
Medication	-	10	Taking any medication?	Yes, I take lisinopriil, metformiin and aspiriin, if I'm riight.	-	1st Priority
Medication	-	11	Medication side-effects present?	Noo, I doon't think soo. I haveen't been feeliing differeent with my medic aatioon.	-	2nd Priority
	-	12	Describe your diet.	I admiit that I'm caare less with what I eeat. I like eeating everything.	-	Not a Priority
	-	13	Last time you ate?	At luunch time.	-	Not a Priority
	-	14	What did you eat last time?	I haad hambuur geers with chiips and a bit of cake, that my wiife maade.	-	Not a Priority
Nutrition	-	15	Snacks between meals?	Yees, usually I eeat soome thang. I like eeating bread with haam and cheese at teea tiime.	-	Not a Priority
	-	16	Do you take dietary supplements?	Noo.	-	Not a Priority
	-	17	Have there been changes in appetite?	Noo, I'm eeat aing what I uusually eeaat.	-	Not a Priority
	-	18	How active are you?	Noot reaally. At the weekaands I oonly go for a smaall waalk with my wiife.	-	Not a Priority
Activity	-	19	What were you doing when you felt ill?	I was in my liviing room at home, and I was gooing to the kitchen wheen I fell douwn, if I can remeember it riight.	-	2nd Priority

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	-	20	Physical effort at time of event?	I wasn't maaking biig efforts, but actuaally I was walking from one plaace to anoother.	-	Not a Priority
	-	21	Recently under stress?	Noo, I'm no longer workiing, so I spend muuch of my tiime resting at home.	-	2nd Priority
	-	22	Frequency of alcohol consumption?	At luunch timee I like haviing my glass oof wiine.	-	Not a Priority
Risk factors	-	23	Do you have high blood pressure?	Yees, I haave. I doon't know if it's veery hiigh, but I haave iit.	-	2nd Priority
	-	24	High cholesterol present?	My dooctour diidn't tell mee thaat.	-	2nd Priority
	-	25	Are you a smoker?	Noo.	-	2nd Priority

	INITIAL SIMULATIO	ON CONDITIONS
CATEGORY	DESIGNATION	COMMENTS
	Slurred speech without aphasia	Due to Stroke
Signs & symptoms	Left sided weakness including facial asymmetry	Due to Stroke
	Hematoma in left arm*	Due to patient fall
Acute conditions at case start	Stroke	-
Parameters at case start:	Blood pressure (mmHg): 164 / 91	
	Heart rate (bpm): 87	
	Respiratory rate (/min): 12	
	O₂ saturation (%): 95	
	Blood glucose (mg/dL): 159	Blood glucose (mmol/L): 8.82
	Temperature (°C): 36.5	Temperature (°F): 98
	Hemoglobin (g/dL): 13.2	
	Urinary output (mL/kg/h): 0.59	
Note: *In the current	version of the case, this Sign & symptom is not in	mplemented yet.

SEQUENCING OF CLINICAL CONDITIONS

Description of the predefined evolution of the patient's state:

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SIMULATION TIME (MIN)		EVENT
	Initial conditions:	- Right ischemic embolic stroke
1		
2		
3		
4		
5		
6		
7	- Right ischem	nic embolic stroke causes Severe Right ischemic embolic stroke
8		
9		
10		
11		
12		
13		
14		
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16		
17 18		
18		
20		

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EXAMINATION PROCEDURES

Examination procedures relevant for the case with detailed results:

CATEGORY	TEST NAME		RESULT DESCRIPTION	
Physical exam		HEALTH CONDITIONS	TEST	RESULT
		ISCHEMIC	Eye opening	4 - Spontaneous
		EMBOLIC	Verbal response	4 - Confused
		RIGHT	Motor response	6 - Obey commands
		STROKE OR NO STROKE	Total result	14 - Mild impairment of consciousness
		HEALTH CONDITIONS	TEST	RESULT
		SEVERE	Eye opening	3 - To sound
	Glasgow coma scale	ISCHEMIC	Verbal response	3 - Words
		EMBOLIC RIGHT	Motor response	5 - Localizing
		STROKE	Total result	11 - Moderate impairment of consciousness
		HEALTH CONDITIONS	TEST	RESULT
			Eye opening	4 - Spontaneous
		AFTER	Verbal response	5 - Oriented
		ALTEPLASE	Motor response	6 - Obey commands
			Total result	15 - No impairment of consciousness

DIAGNOSTIC STRATEGIES

Complementary strategies for diagnosis relevant for the case:

CATEGORY	TEST NAME		RESULT DESCRIPTION		PRIORITY	
Imaging	Carotid Doppler Ultrasound		Right ICA stenosis		2nd Priority	
	Echocardiogram, TE		Dilated Cardiomyopathy of left atria			
	Head CT	No visible pa	renchymal lesions. Spontaneous hyperdens MCA	ity in the right	1st Priority	
	Cerebral angio CT		Occlusion of M2 segment of right MCA		1st Priority	
	Cerebral perfusion CT		Mismatch in the right MCA territory		1st Priority	
	Transcranial doppler		M1 Right Occlusion		2nd Priority	
Lab tests	Biochemistry	Hig	h glycemia value; no other significant altera	tions	2nd Priority	
	Complete blood count			2nd Priority		
	Coagulation Tests	No significant alterations			2nd Priority	
Electrophysiology	12-Lead ECG	No significant alterations		2nd Priority		
Decision aids	Stroke Scale (NIHSS)	HEALTH CONDITIONS	TEST	RESULT		
			 Level of Consciousness Alert, Keenly responsive; 1-Not Alert; but arousable by minor stimulation; 2- Not Alert, requires repeated and strong stimulation;- 3-coma. 	0 - Alert, Keenly responsive		
			1.b- LOC- Questions (month and age) 0- Both correct; 1- one correct; 2- none correct.	0 - Both correct		
			1.c- LOC - Verbal Commands (open/close eyes, grip/release non-paretic hand) 0-both tasks correctly; 1- one task correctly; 2- none task correctly.	0 - Both tasks correctly		
			2- Best gaze (Only horizontal eye movements, voluntary or reflexive) 0- Normal; 1- partial gaze palsy; 2- forced deviation.	1 - Partial gaze palsy		
			 3- Visual fields (stimuli or threats in each eye's 4 quadrants) 0- No visual loss; 1- partial hemianopia ; 2- complete hemianopia; 3- bilateral hemianopia (blind/cortical blindness). 	0 - No visual loss		
			4- Facial palsy O- Normal; 1- Right side minor paralysis; 1- Left side minor paralysis; 2- Right side partial paralysis; 2- Left side partial paralysis; 3- Right side complete paralysis; 3- Left side complete paralysis.	2 - Left side partial paralysis		

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		5.a- Motor Right Arm (10" sitting at 90°, supine at 45°) 0- No drift; 1- drift, drifts does not hit bed; 2- Some effort against gravity; drifts down to bed; 3- No effort against gravity, limb falls; 4- No movement; UN - amputation or join fusion.	0 - No drift
	ISCHEMIC EMBOLIC RIGHT STROKE OR NO STROKE	5.b- Motor Left Arm (10" sitting at 90°, supine at 45°)	3 - No effort against gravity, limb falls
	NO OTNORE	6.a- Motor Right Leg (5" lying at 30°)	0 - No drift
		6.b- Motor Left Leg (5" lying at 30°)	1 - Drift, drifts does not hit bed
		7- Limb ataxia (finger-nose-finger; heel-shin) 0- Absent; 1- Present in one limb; 2- Present in two limbs; UN- amputation or join fusion.	
		 8- Sensory (sensation to pinprick when tested or withdrawal from noxious stimulus) 0- Normal; 1- mild to moderate sensory loss; 2- Severe to total sensory loss). 	2 - Severe to total sensory loss
		 9- Best Language (name items, describe a picture, read sentences) 0- No aphasia; 1- mild to moderate aphasia; 2-severe aphasia; 3- mute, global aphasia. 	0 - No aphasia
		 Dysarthria (clarity of articulation of speech when reading or repeating words) Normal; 1- mild to moderate dysarthria; 2-severe dysarthria; mute/anarthric UN-intubated or other physical barrier. 	1 - Mild to moderate dysarthria
		11-Extinction and inattention (simultaneous bilateral visual and tactile stimuli; anosagnosia) 0- No abnormality; 1-Visual, tactile, auditory, spatial or personal inattention or extinction to one modality; 2- Profound hemi-inattention or extinction to more than one modality.	2 - Profound hemi-inattention or extinction to more than one modality
		Total	12 - Moderate stroke
	HEALTH CONDITIONS	TEST	RESULT
	CONDITIONO		1 - Not Alert; but arousable by minor stimulation
		 1.b- LOC- Questions (month and age) 0- Both correct; 1- one correct; 2- none correct. 	2 - None correct
		1.c- LOC - Verbal Commands (open/close eyes, grip/release non-paretic hand) 0-both tasks correctly; 1- one task correctly; 2- none task correctly.	2- None task correctly
		2- Best gaze (Only horizontal eye movements, voluntary or reflexive)	
		0- Normal; 1- partial gaze palsy; 2- forced deviation.	2 - Forced deviation
		0- Normal; 1- partial gaze palsy; 2- forced	
	SEVERE ISCHEMIC EMBOLIC RIGHT STROKE OR ALTEPLASE OVERDOSE	 0- Normal; 1- partial gaze palsy; 2- forced deviation. 3- Visual fields (stimuli or threats in each eye's 4 quadrants) 0- No visual loss; 1- partial hemianopia ; 2- complete hemianopia; 3- bilateral hemianopia 	deviation 2 - Complete hemianopia 2 - Left side
	ISCHEMIC EMBOLIC RIGHT STROKE OR ALTEPLASE	 0- Normal; 1- partial gaze palsy; 2- forced deviation. 3- Visual fields (stimuli or threats in each eye's 4 guadrants) 0- No visual loss; 1- partial hemianopia; 2- complete hemianopia; 3- bilateral hemianopia (blind/cortical blindness). 4- Facial palsy 0- Normal; 1- Right side minor paralysis; 1- Left side minor paralysis; 2- Right side partial paralysis; 2- Left side partial paralysis; 3- Right side complete paralysis; 3- Left side complete paralysis. 5.a- Motor Right Arm (10" sitting at 90°, supine at 45°) 0- No drift; 1- drift, drifts does not hit bed; 2- Some effort against gravity, limib falls; 4- No movement; UN - amputation or join fusion. 	deviation 2 - Complete hemianopia 2 - Left side partial paralysis 0 - No drift
	ISCHEMIC EMBOLIC RIGHT STROKE OR ALTEPLASE	 0- Normal; 1- partial gaze palsy; 2- forced deviation. 3- Visual fields (stimuli or threats in each eye's 4 guadrants) 0- No visual loss; 1- partial hemianopia; 2- complete hemianopia; 3- bilateral hemianopia (blind/cortical blindness). 4- Facial palsy 0- Normal; 1- Right side minor paralysis; 1- Left side partial paralysis; 2- Right side partial paralysis; 2- Left side partial paralysis; 3- Right side complete paralysis; 5.a- Motor Right Arm (10" sitting at 90°, supine at 45°) 0- No drift; 1- drift, drifts does not hit bed; 2- Some effort against gravity, limib falls; 4- No movement; 	deviation 2 - Complete hemianopia 2 - Left side partial paralysis
	ISCHEMIC EMBOLIC RIGHT STROKE OR ALTEPLASE	 0- Normal; 1- partial gaze palsy; 2- forced deviation. 3- Visual fields (stimuli or threats in each eye's 4 guadrants) 0- No visual loss; 1- partial hemianopia; 2- complete hemianopia; 3- bilateral hemianopia (blind/cortical blindness). 4- Facial palsy 0- Normal; 1- Right side minor paralysis; 1- Left side minor paralysis; 2- Right side partial paralysis; 2- Left side partial paralysis; 3- Right side complete paralysis; 3- Left side complete paralysis; 5.a- Motor Right Arm (10" sitting at 90°, supine at 45°) 0- No drift; 1- drift, drifts does not hit bed; 2- Some effort against gravity; drifts down to bed; 3- No effort against gravity, limb falls; 4- No movement; UN - amputation or join fusion. 5.b- Motor Left Arm (10" sitting at 90°, supine at 	deviation 2 - Complete hemianopia 2 - Left side partial paralysis 0 - No drift 4 - No
	ISCHEMIC EMBOLIC RIGHT STROKE OR ALTEPLASE	 0- Normal; 1- partial gaze palsy; 2- forced deviation. 3- Visual fields (stimuli or threats in each eye's 4 guadrants) 0- No visual loss; 1- partial hemianopia; 2- complete hemianopia; 3- bilateral hemianopia (blind/cortical blindness). 4- Facial palsy 0- Normal; 1- Right side minor paralysis; 1- Left side minor paralysis; 2- Right side partial paralysis; 2- Left side partial paralysis; 3- Right side complete paralysis; 3- Left side complete paralysis; 3- Left side complete paralysis; 3- Left side complete paralysis; 0- No drift; 1- drift, drifts does not hit bed; 2- Some effort against gravity; drifts down to bed; 3- No effort against gravity, limb falls; 4- No movement; UN - amputation or join fusion. 5.b- Motor Left Arm (10" sitting at 90°, supine at 45°) 	deviation 2 - Complete hemianopia 2 - Left side partial paralysis 0 - No drift 4 - No movement
	ISCHEMIC EMBOLIC RIGHT STROKE OR ALTEPLASE	 0- Normal; 1- partial gaze palsy; 2- forced deviation. 3- Visual fields (stimuli or threats in each eye's 4 guadrants) 0- No visual loss; 1- partial hemianopia; 2- complete hemianopia; 3- bilateral hemianopia (blind/cortical blindness). 4- Facial palsy 0- Normal; 1- Right side minor paralysis; 1- Left side minor paralysis; 2- Right side partial paralysis; 2- Left side partial paralysis; 3- Right side complete paralysis; 3- Left side complete paralysis; 3- Left side complete paralysis; 5.a- Motor Right Arm (10" sitting at 90°, supine at 45°) 0- No drift; 1- drift, drifts does not hit bed; 2- Some effort against gravity, limib falls; 4- No movement; UN - amputation or join fusion. 5.b- Motor Left Arm (10" sitting at 90°, supine at 45°) 6.a- Motor Right Leg (5" lying at 30°) 	deviation 2 - Complete hemianopia 2 - Left side partial paralysis 0 - No drift 4 - No movement 0 - No drift 4 - No movement

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	9- Best Language (name items, describe a picture, read sentences)		
	read sentences) 0- No aphasia; 1- mild to moderate aphasia; 2- severe aphasia; 3- mute, global aphasia.	0 - No aphasia	
	 10- Dysarthria (clarity of articulation of speech when reading or repeating words) 0- Normal; 1- mild to moderate dysarthria; 2-severe dysarthria; mute/anarthric UN-intubated or other physical barrier. 	2 - Severe dysarthria; Mute/anarthric	
	11-Extinction and inattention (simultaneous bilateral visual and tactile stimuli; anosagnosia) 0- No abnormality; 1-Visual, tactile, auditory, spatial or personal inattention or extinction to one modality; 2- Profound hemi-inattention or extinction to more than one modality.	0 - No abnormality	1st Priority
	Total	23 - Severe stroke	lot honey
HEALTH CONDITIONS	TEST	RESULT	
	 Level of Consciousness Alert, Keenly responsive; 1-Not Alert; but arousable by minor stimulation; 2- Not Alert, requires repeated and strong stimulation;- 3-coma. 	0 - Alert, Keenly responsive	
	 1.b- LOC- Questions (month and age) 0- Both correct; 1- one correct; 2- none correct. 	0 - Both correct	
	1.c-LOC - Verbal Commands (open/close eyes, grip/release non-paretic hand) 0-both tasks correctly; 1- one task correctly; 2- none task correctly.	0 - Both tasks correctly	
	2- Best gaze (Only horizontal eye movements, voluntary or reflexive) 0- Normal; 1- partial gaze palsy; 2- forced deviation.	0 - Normal	
	 3- Visual fields (stimuli or threats in each eye's 4 quadrants) 0- No visual loss; 1- partial hemianopia; 2- complete hemianopia; 3- bilateral hemianopia (blind/cortical blindness). 	0 - No visual loss	
	4- Facial palsy 0- Normal; 1- Right side minor paralysis; 1- Left side minor paralysis; 2- Right side partial paralysis; 2- Left side partial paralysis; 3- Right side complete paralysis; 3- Left side complete paralysis.	1 - Left side minor paralysis	
	 5.a- Motor Right Arm (10" sitting at 90°, supine at 45°) 0- No drift; 1- drift, drifts does not hit bed; 2- Some effort against gravity; drifts down to bed; 3- No effort against gravity, limb falls; 4- No movement; UN - amputation or join fusion. 	0 - No drift	
AFTER ALTEPLASE	5.b- Motor Left Arm (10" sitting at 90°, supine at 45°)	2 - Some effort against gravity; Drifts down to bed	
	6.a- Motor Right Leg (5" lying at 30°)	0 - No drift	
	6.b- Motor Left Leg (5" lying at 30°)	1 - Drift, drifts does not hit bed	
	 7- Limb ataxia (finger-nose-finger; heel-shin) 0- Absent; 1- Present in one limb; 2- Present in two limbs; UN- amputation or join fusion. 	0 - Absent	
	8- Sensory (sensation to pinprick when tested or withdrawal from noxious stimulus) 0- Normal; 1- mild to moderate sensory loss; 2- Severe to total sensory loss).	1 - Mild to moderate sensory loss	
	 9- Best Language (name items, describe a picture, read sentences) 0- No aphasia; 1- mild to moderate aphasia; 2- severe aphasia; 3- mute, global aphasia. 	0 - No aphasia	
	 Dysarthria (clarity of articulation of speech when reading or repeating words) Normal; 1- mild to moderate dysarthria; 2-severe dysarthria; mute/anarthric UN-intubated or other physical barrier. 	1 - Mild to moderate dysarthria	
	11-Extinction and inattention (simultaneous bilateral visual and tactile stimuli; anosagnosia) 0- No abnormality; 1-Visual, tactile, auditory, spatial or personal inattention or extinction to one modality; 2- Profound hemi-inattention or extinction to more than one modality.	0 - No abnormality	
	Total	6 - Moderate stroke	
HEALTH CONDITIONS	TEST	RESULT	

	Case Martin Mas				
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				-	
		arousable by min	Isciousness esponsive; 1-Not Alert; but Ior stimulation; 2- Not Alert, d and strong stimulation;- 3-coma.	0 - Alert, Keenly responsive	
			ions (month and age) I- one correct; 2- none correct.	0 - Both correct	
		grip/release non-	ectly; 1- one task correctly; 2-	0 - Both tasks correctly	
	AFTER THROMBECTO MY	voluntary or refle	lly horizontal eye movements, xive) tial gaze palsy; 2- forced	0 - Normal	
		quadrants) 0- No visual loss;	stimuli or threats in each eye's 4 ; 1- partial hemianopia ; 2- iopia; 3- bilateral hemianopia ndness).	0 - No visual loss	
		side minor paraly 2- Left side partia	nt side minor paralysis; 1- Left /sis; 2- Right side partial paralysis; al paralysis; 3- Right side complete side complete paralysis.	1 - Left side minor paralysis	
		45°) 0- No drift; 1- drif effort against gra	Arm (10" sitting at 90°, supine at t, drifts does not hit bed; 2- Some vity; drifts down to bed; 3- No vity, limb falls; 4- No movement; or join fusion.	0 - No drift	
		5.b- Motor Left A 45°)	rm (10" sitting at 90°, supine at	1 - Drift, drifts does not hit bed	
		6.a- Motor Right	Leg (5" lying at 30°)	0 - No drift	1
			eg (5" lying at 30°)	0 - No drift	
		0- Absent; 1- Pre	nger-nose-finger; heel-shin) sent in one limb; 2- Present in two tation or join fusion.	0 - Absent	
		withdrawal from r	ation to pinprick when tested or noxious stimulus) d to moderate sensory loss; 2- ensory loss).	1 - Mild to moderate sensory loss	
		read sentences) 0- No aphasia; 1-	e (name items, describe a picture, - mild to moderate aphasia; 2- 3- mute, global aphasia.	0 - No aphasia	
		when reading or 0- Normal; 1- mile	larity of articulation of speech repeating words) d to moderate dysarthria; 2-severe anarthric UN-intubated or other	1 - Mild to moderate dysarthria	
		bilateral visual ar 0- No abnormality spatial or persona modality; 2- Profe	d inattention (simultaneous nd tactile stimuli; anosagnosia) y; 1-Visual, tactile, auditory, al inattention or extinction to one ound hemi-inattention or e than one modality.	0 - No abnormality	
		Total		4 - Minor stroke	
Notes: CT = computed tomography; TE = transeso *In the current application version, these test			stitutes of Health Stroke Sca	le	

TREATMENT / INTERVENTION OPTIONS

Medication / intervention options to treat all patient's conditions.

This table contains treatments required to treat all relevant acute health conditions present in this case.

Each cell in the first column designates a condition and the cells to the right describe its treatment options.

The "type" and "category" columns refer to the location of the treatment item in Body Interact user interface (to be filled in only by the Body Interact team).

To treat:	TYPE	CATEGORY	DESIGNATION	DOSE	UNIT	ROUTE OF ADMINISTR ATION	PRIORITY
				0.9 mg/kg=85.5 mg	-	-	
	MEDICATION FIE	FIBRINOLYTI C	Alteplase	10% of dose=8. 6 mg	mg	IV bolus	1st Priority
ISCHEMIC EMBOLIC RIGHT STROKE / SEVERE ISCHEMIC			90% of dose=77 mg	mg	IV over 1 hour		
EMBOLIC RIGHT STROKE	TYPE		DESCRIPTION			PRIORITY	
			Call stroke unit*	The s	troke unit is no	otified.	1st Priority

C	ase 35	
Martin	Masterso	n

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		CALL	Interventional Neuroradiologist	Thrombectomy - right M	CA occlusion	1st Priority
Note:	ote: *For success solving the case, Call Stroke unit intervention, is an optional intervention.					

To treat:	TYPE	CATEGORY	DESIGNATION	DOSE	UNIT	ROUTE OF ADMINISTR ATION	PRIORITY
	OXYGEN	Nasal cannula	-	-	-	2nd Priority	
OATGENATION	INTERVENTIO N	OXYGEN	High flow mask	40	%	-	2nd Priority

ENDING MESSAGES

Each ending message text is required to have no more than 200 characters (including spaces).

N

TYPE	CONDITIONAL	MESSAGE
Success	Treat the patients conditions according to guidelines	Congratulations, your practice meets the guidelines' requirements.
Failure	Administer alteplase overdose	The patient suffered a severe intracranial hemorrhage, and underwent emergency neurosurgery. Recovered with severe permanent disability.

DIFFERENTIAL DIAGNOSIS

Indication of the options of diagnostic answers that the user will be presented at the end of the simulation (multiple choice question):

DIFFERENTIAL	Correct answer	Ischemic stroke
	NULTIPLE CHOICE 3 incorrect answers	Cerebral venous thrombosis
		Epileptic crisis
QUESTION		Arteriovenous malformation

REFERENCES

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