Scenario 1

Case Information

PATIENT INFORMATION:

- 68-year-old male patient complaining of left sided weakness and an unsteady gait.
- Reported last normal time 30 minutes prior to EMS arrival on scene.

ABNORMAL STROKE EXAM FINDINGS:

- Moderate left arm drift. Unable to maintain extension for 10 secs.
- Moderate decrease left leg motor function. Unable to maintain leg raise for 5 secs.

- CPSS positive, suggesting possible ischemic event.
- EMS should transport to the nearest primary stroke center; onset < 3 hours.
- mRACE exam should be completed en route to the primary center.
- mRACE of 2, not indicative of a large vessel occlusion.

Item	Exam	Abnormal	Points	mRACE
1. Speech	Repeat: "The sky is blue in Pittsburgh." Normal (speech with correct words and no slurring) Abnormal (slurs words, says wrong words, or unable to speak)	Yes / <u>No</u>		
2. Facial Palsy	Ask patient to smile / show teeth Absent (symmetric movement) Mild facial palsy (slightly asymmetrical) Moderate-severe facial palsy (completely asymmetric)	Yes / <u>No</u>	0 Points 1 Point 2 Points	0
3. Arm Motor Function	Ask patient to raise both arms, palms up, for 10 secs No or mild drift of either arm (limb held > 10 secs) Moderate drift of either arm (limb held < 10 secs) Severe weakness of either arm (no movement against gravity)	<u>Yes</u> / No	0 Points 1 Point 2 Points	1
Presence of Stroke	Cincinnati Prehospital Stroke Score Positive (any yes above):	<u>Yes</u> / No		
4. Leg Motor Function	Ask patient to raise each leg for 5 secs No or mild drift of either leg (limb held > 5 secs) Moderate drift of either leg (limb held < 5 secs) Severe weakness of either leg (no movement against gravity)		0 Points 1 Point 2 Points	1
5. Head and Gaze Deviation	Ask patient to move head and eyes horizontally and assess gaze deviation Absent (eye movements to both sides possible and no head deviation) Present (eyes and head deviation to one side)		0 Points 1 Point	0
6. Commands	Ask the patient to "close your eyes" and "make a fist" Normal (performs both tasks) Moderate (performs one task) Severe (performs no tasks)		0 Points 1 Point 2 Points	0
7. Agnosia	Ask patient while showing the affected arm: "Whose arm is this?" Ask patient to lift both arms and clap (evaluate if patient recognizes functional impairment) Normal (recognizes his/her arm and the impairment) Moderate (does not recognize his/her arm or the impairment) Severe (does not recognize his/her arm nor the impairment)		0 Points 1 Point 2 Points	0
Stroke Severity	Serum Glucose:	mRACE Sc	ore:	2

Scenario 2

Case Information

PATIENT INFORMATION:

- 83-year-old female patient experiencing an altered level of consciousness.
- Last normal time approximately 5 hours prior.

ABNORMAL STROKE EXAM FINDINGS:

- · Slurred speech.
- Unable to move right arm against gravity.
- Unable to move right leg against gravity.
- Unable to make a fist with her left hand.
- Unable to close her eyes.
- Does not recognize deficit.
- Is not able to clap.

- CPSS positive, suggesting possible ischemic event.
- mRACE exam should be completed on scene.
- mRACE of 8, suggestive of a large vessel occlusion.
- EMS should consult medical command for interventional center; onset 3-12 hours.

Item	Exam	Abnormal	Points	mRACE
1. Speech	Repeat: "The sky is blue in Pittsburgh." Normal (speech with correct words and no slurring) Abnormal (slurs words, says wrong words, or unable to speak)	<u>Yes</u> / No		
2. Facial Palsy	Ask patient to smile / show teeth Absent (symmetric movement) Mild facial palsy (slightly asymmetrical) Moderate-severe facial palsy (completely asymmetric)	Yes / <u>No</u>	0 Points 1 Point 2 Points	0
3. Arm Motor Function	Ask patient to raise both arms, palms up, for 10 secs No or mild drift of either arm (limb held > 10 secs) Moderate drift of either arm (limb held < 10 secs) Severe weakness of either arm (no movement against gravity)	<u>Yes</u> / No	0 Points 1 Point 2 Points	2
Presence of Stroke	Cincinnati Prehospital Stroke Score Positive (any yes above):	<u>Yes</u> / No		
4. Leg Motor Function	Ask patient to raise each leg for 5 secs No or mild drift of either leg (limb held > 5 secs) Moderate drift of either leg (limb held < 5 secs) Severe weakness of either leg (no movement against gravity)		0 Points 1 Point 2 Points	2
5. Head and Gaze Deviation	Ask patient to move head and eyes horizontally and assess gaze deviation Absent (eye movements to both sides possible and no head deviation) Present (eyes and head deviation to one side)		0 Points 1 Point	0
6. Commands	Ask the patient to "close your eyes" and "make a fist" Normal (performs both tasks) Moderate (performs one task) Severe (performs no tasks)		0 Points 1 Point 2 Points	2
7. Agnosia	Ask patient while showing the affected arm: "Whose arm is this?" Ask patient to lift both arms and clap (evaluate if patient recognizes functional impairment) Normal (recognizes his/her arm and the impairment) Moderate (does not recognize his/her arm or the impairment) Severe (does not recognize his/her arm nor the impairment)		0 Points 1 Point 2 Points	2
Stroke Severity	Serum Glucose:	mRACE Sc	ore:	8

Scenario 3

Case Information

PATIENT INFORMATION:

- 74-year-old male patient complaining of a headache and increased weakness.
- Residual left sided deficits from a prior CVA in 2007.
- Last normal time approximately 90 minutes ago.

ABNORMAL STROKE EXAM FINDINGS:

- Mild left-sided facial droop.
- Moderate left arm drift. Unable to maintain extension for 10 secs.
- Moderate decrease left leg motor function. Unable to maintain leg raise for 5 secs.
- Unable to clap and <u>recognizes</u> the deficit.

- CPSS positive, suggesting possible ischemic event.
- EMS should transport to the nearest primary stroke center; onset < 3 hours.
- mRACE exam should be completed en route to the primary center.
- mRACE of 3, not indicative of a large vessel occlusion.

Item	Exam	Abnormal	Points	mRACE
1. Speech	Repeat: "The sky is blue in Pittsburgh." Normal (speech with correct words and no slurring) Abnormal (slurs words, says wrong words, or unable to speak)	Yes / <u>No</u>		
2. Facial Palsy	Ask patient to smile / show teeth Absent (symmetric movement) Mild facial palsy (slightly asymmetrical) Moderate-severe facial palsy (completely asymmetric)	<u>Yes</u> / No	0 Points 1 Point 2 Points	1
3. Arm Motor Function	Ask patient to raise both arms, palms up, for 10 secs No or mild drift of either arm (limb held > 10 secs) Moderate drift of either arm (limb held < 10 secs) Severe weakness of either arm (no movement against gravity)	<u>Yes</u> / No	0 Points 1 Point 2 Points	1
Presence of Stroke	Cincinnati Prehospital Stroke Score Positive (any yes above):	<u>Yes</u> / No		
4. Leg Motor Function	Ask patient to raise each leg for 5 secs No or mild drift of either leg (limb held > 5 secs) Moderate drift of either leg (limb held < 5 secs) Severe weakness of either leg (no movement against gravity)		0 Points 1 Point 2 Points	1
5. Head and Gaze Deviation	Ask patient to move head and eyes horizontally and assess gaze deviation Absent (eye movements to both sides possible and no head deviation) Present (eyes and head deviation to one side)		0 Points 1 Point	0
6. Commands	Ask the patient to "close your eyes" and "make a fist" Normal (performs both tasks) Moderate (performs one task) Severe (performs no tasks)		0 Points 1 Point 2 Points	0
7. Agnosia	Ask patient while showing the affected arm: "Whose arm is this?" Ask patient to lift both arms and clap (evaluate if patient recognizes functional impairment) Normal (recognizes his/her arm and the impairment) Moderate (does not recognize his/her arm or the impairment) Severe (does not recognize his/her arm nor the impairment)		0 Points 1 Point 2 Points	0
Stroke Severity	Serum Glucose:	mRACE Sc	ore:	3

Scenario 4

Case Information

PATIENT INFORMATION:

- 80-year-old male patient experiencing frequent falls over the past 8 hours.
- Last normal time approximately 8 hours prior, difficult to determine.

ABNORMAL STROKE EXAM FINDINGS:

- Moderate right arm drift. Unable to maintain extension for 10 secs.
- Moderate decrease right leg motor function. Unable to maintain leg raise for 5 secs.

- CPSS positive, suggesting possible ischemic event.
- mRACE exam should be completed on scene.
- mRACE of 2, not indicative of a large vessel occlusion.
- EMS should consult medical command for appropriate receiving facility.

Item	Exam	Abnormal	Points	mRACE
1. Speech	Repeat: "The sky is blue in Pittsburgh." Normal (speech with correct words and no slurring) Abnormal (slurs words, says wrong words, or unable to speak)	Yes / <u>No</u>		
2. Facial Palsy	Ask patient to smile / show teeth Absent (symmetric movement) Mild facial palsy (slightly asymmetrical) Moderate-severe facial palsy (completely asymmetric)	Yes / <u>No</u>	0 Points 1 Point 2 Points	0
3. Arm Motor Function	Ask patient to raise both arms, palms up, for 10 secs No or mild drift of either arm (limb held > 10 secs) Moderate drift of either arm (limb held < 10 secs) Severe weakness of either arm (no movement against gravity)	<u>Yes</u> / No	0 Points 1 Point 2 Points	1
Presence of Stroke	Cincinnati Prehospital Stroke Score Positive (any yes above):	<u>Yes</u> / No		
4. Leg Motor Function	Ask patient to raise each leg for 5 secs No or mild drift of either leg (limb held > 5 secs) Moderate drift of either leg (limb held < 5 secs) Severe weakness of either leg (no movement against gravity)		0 Points 1 Point 2 Points	1
5. Head and Gaze Deviation	Ask patient to move head and eyes horizontally and assess gaze deviation Absent (eye movements to both sides possible and no head deviation) Present (eyes and head deviation to one side)		0 Points 1 Point	0
6. Commands	Ask the patient to "close your eyes" and "make a fist" Normal (performs both tasks) Moderate (performs one task) Severe (performs no tasks)		0 Points 1 Point 2 Points	0
7. Agnosia	Ask patient while showing the affected arm: "Whose arm is this?" Ask patient to lift both arms and clap (evaluate if patient recognizes functional impairment) Normal (recognizes his/her arm and the impairment) Moderate (does not recognize his/her arm or the impairment) Severe (does not recognize his/her arm nor the impairment)		0 Points 1 Point 2 Points	0
Stroke Severity	Serum Glucose:	mRACE Sc	ore:	2

Scenario 5

Case Information

PATIENT INFORMATION:

- 58-year-old female patient reported with abnormal behavior and weakness.
- Last normal time reported 90 minutes prior.

ABNORMAL STROKE EXAM FINDINGS:

- · Slurred speech.
- Severe left facial palsy.
- Unable to move left arm against gravity.
- Unable to move left leg against gravity.
- Right gaze deviation.
- Unable to identify left arm.
- Unable to clap and does not recognize impairment.

- CPSS positive, suggesting possible ischemic event.
- EMS should transport to the nearest primary stroke center; onset < 3 hours.
- mRACE of 9, suggestive of a large vessel occlusion.
- mRACE exam should be completed en route.

Item	Exam	Abnormal	Points	mRACE
1. Speech	Repeat: "The sky is blue in Pittsburgh." Normal (speech with correct words and no slurring) Abnormal (slurs words, says wrong words, or unable to speak)	<u>Yes</u> / No		
2. Facial Palsy	Ask patient to smile / show teeth Absent (symmetric movement) Mild facial palsy (slightly asymmetrical) Moderate-severe facial palsy (completely asymmetric)	<u>Yes</u> / No	0 Points 1 Point 2 Points	2
3. Arm Motor Function	Ask patient to raise both arms, palms up, for 10 secs No or mild drift of either arm (limb held > 10 secs) Moderate drift of either arm (limb held < 10 secs) Severe weakness of either arm (no movement against gravity)	<u>Yes</u> / No	0 Points 1 Point 2 Points	2
Presence of Stroke	Cincinnati Prehospital Stroke Score Positive (any yes above):	<u>Yes</u> / No		
4. Leg Motor Function	Ask patient to raise each leg for 5 secs No or mild drift of either leg (limb held > 5 secs) Moderate drift of either leg (limb held < 5 secs) Severe weakness of either leg (no movement against gravity)		0 Points 1 Point 2 Points	2
5. Head and Gaze Deviation	Ask patient to move head and eyes horizontally and assess gaze deviation Absent (eye movements to both sides possible and no head deviation) Present (eyes and head deviation to one side)		0 Points 1 Point	1
6. Commands	Ask the patient to "close your eyes" and "make a fist" Normal (performs both tasks) Moderate (performs one task) Severe (performs no tasks)		0 Points 1 Point 2 Points	0
7. Agnosia	Ask patient while showing the affected arm: "Whose arm is this?" Ask patient to lift both arms and clap (evaluate if patient recognizes functional impairment) Normal (recognizes his/her arm and the impairment) Moderate (does not recognize his/her arm or the impairment) Severe (does not recognize his/her arm nor the impairment)		0 Points 1 Point 2 Points	2
Stroke Severity	Serum Glucose:	mRACE Sc	ore:	9