APPENDIX A: AD KNOWLEDGE TEST AND SCORING KEY

 $\underline{\text{Note:}}$ Allocation of points is indicated in italics below the question stem. Correct responses are indicated with an X. Maximum score is 22.

Ho	wwwould you rate your knowledge of Autonomic Dysreflexia? (Check one) Excellent Good Fair Poor None
1.	 What is Autonomic Dysreflexia? (Check one) (no answer/incorrect = 0, correct = 1) □ A group of spontaneous stereotypical reflexes mediated by the nervous system in individuals with central nervous system injury X A sudden rise in blood pressure and associated symptoms from noxious or non-noxious stimuli that trigger sympathetic hyperactivity of the spinal cord □ A failure of the autonomic system (e.g. postural hypotension) □ Age-related hypertension
2.	The typical resting systolic blood pressure (BP) for a person with a chronic tetraplegia will be: (Check one) (no answer/incorrect = 0, correct = 1) 120 mmHg 130 mmHg 115 mmHg Very 90 mmHg
3.	In a person with spinal cord injury (SCI), the lowest spinal cord segment associated with the occurrence of AD is: (Check one) (no answer/incorrect = 0, correct = 1) □ C6 X T6 □ T12 □ T1
4.	A 20 year-old male with C6 complete tetraplegia complains of a pounding headache and nasal congestion shortly after being put to bed. His home care nurse is concerned and brings him into the emergency department with: temperature 37 °C, pulse 60 bpm, BP 190/100 mmHg. He has no prior history of hypertension. Your initial steps/recommendations are to: (Check one)

(no answer/incorrect = 0, correct = 1)

	 □ Prescribe hydrochlorothiazide 25 mg, po daily to start in the morning □ Prescribe acetaminophen for the headache and increase vital sign monitoring to every 4 hours □ Order electrolytes, electrocardiogram, and renal scan to evaluate hypertension and monitor the blood pressure frequently to determine if further therapy is indicated X Sit him up in bed, loosen any tight clothing or restrictive equipment, and empty his bladder □ Prescribe no therapy since BP commonly varies in people with tetraplegia □ None of the above
5.	To your knowledge, which of the following signs or symptoms would an individual with a SCI experience during an episode of AD? (Check all that apply) (no answer = 0, 1 point each correct answer, -1 each incorrect; range -2 to 4) □ Sudden decrease in blood pressure X Sudden increase in blood pressure X Sudden low heart rate X Headache □ Flushed Skin below the lesion X Flushed Skin above the lesion
6.	Indicate the two most common causes of AD? (Use numbers 1 and 2; 1 = most common) (no answer = 0, 1 point each correct answer, +1 for correct order; max 3 points) Skin (pressure sores and ingrown toenails) Menses 2 Gastrointestinal (constipation, hemorrhoids) Uterus contractions during labour Blood clots (legs or lungs) 1 Bladder (distention, infection, tests) Broken bones or fractures Kidney stones
7.	Is medication indicated to lower your patient's BP as part of managing their AD? (no answer/incorrect = 0, correct = 1) X Yes □ No
8.	If yes to 7, what would this medication be? (Check the most appropriate medications) (no answer = 0, 1 point each correct answer; max 3 points) X Captopril X Nifedipine (Adalat, Procardia) X Nitroglycerine □ Ramipril (Altace) □ Atenolol (Tenormin) □ Hydrochlorothiazide (Hydrodiuril)

9.	In a person with a SCI, who has experienced a severe untreated episode of AD, which of the following complications could occur? (Check all that apply)		
	(no answer = 0 , 1 point each correct answer, -1 each incorrect; range -1 to 5)		
	X Seizure		
	X Intracranial hemorrhage		
	X Angina		
	X Myocardial infarction		
	☐ Renal failure		
	X Death		
	A Death		
10. Following implementation of the AD management protocol, you should: (Check one)			
	(no answer/incorrect = 0 , correct = 1)		
	☐ Discharge the patient home once systolic BP reaches 150 mmHg or lower		
	☐ Monitor BP and patient q 30 minutes for 24 hours		
	X Monitor BP and heart rate for at least 2 hours after BP normalizes to the expected BP for that individual's injury level		
	□ None of the above		
11. Once you identify and treat/remove the trigger for AD, you may expect the following:			
	(Check one)		
	(no answer/incorrect = 0 , correct = 1)		
	☐ The patient becomes hypotensive		
	☐ The patient may lose consciousness		
	☐ The patient complains of dizziness and lightheadedness		
	X All of the above		
	□ None of the above		