

eAppendix 1: Program Director Survey

Didactic neuroscience education

Does your program include a dedicated pre-clinical neuroscience course? Yes No

What is the duration of the required didactic neuroscience course in weeks? _____

Which of the following topics in neuroscience are covered in didactics?

- Neuroanatomy
 Neuropharmacology
 Neurophysiology Neurologic
 disease Neurologic
 examinationNeuroradiology
 Neuropathology
 Other
(Select all that apply)

If you selected "other" neuroscience topics, please explain: _____

Who is the course director of your pre-clinical neuroscience course?

- A PA who works primarily in Neurology
 A PA who works primarily in Neurosurgery
 A PA not specialized in the neurosciences
 An MD or DO neurologist
 An MD or DO neurosurgeon
 A basic scientist in the neurosciences (PhD or Masters)
 A dedicated educator (regardless of degree)
 Someone else

If you selected "someone else" as your neuroscience course director, please explain: _____

What is the estimated duration in weeks of didactic time spent covering neuroscience content? _____

Which of the following topics in neuroscience are covered in didactic courses?

- Neuroanatomy
 Neuropharmacology
 Neurophysiology Neurologic
 disease Neurologic
 examinationNeuroradiology
 Neuropathology
 Other
(Select all that apply)

If you selected "other" neuroscience topics, please explain: _____

How does budgeted time for pre-clinical neuroscience education compare with budgeted time for pre-clinical cardiovascular education?

- Considerably more time budgeted for neuroscience
 Somewhat more time budgeted for neuroscience
 Considerably more time budgeted for cardiovascular
 Somewhat more time budgeted for cardiovascular
 Approximately equivalent amount of time budgeted for cardiovascular and neuroscience

Please describe any opportunities for clinical exposure to neurology during the didactic phase of your curriculum: _____

(Leave this field blank if your program does not offer clinical exposure to neurology in the pre-clinical years)

Neurologic exam education

What type of neurologic exam is taught in your program?

- A brief, screening exam
- A detailed, hypothesis driven exam
- The neuro exam is not taught

Describe how the neurologic exam is taught:

(E.g. "The exam is demonstrated during a lecture to the class", "Students are observed practicing the exam on other students in a small group", and/or "Students learn the exam working one on one with a preceptor in clinic or on the wards")

Who teaches the neurologic exam?

- A neurologist
 - An APP who primarily practices neurology
 - A physician who does not primarily practice neurology
 - An APP who does not primarily practice neurology
 - Someone else
- (Select all that apply)

If "someone else" teaches the neurologic exam, please explain:

How much time is dedicated to learning and/or practicing the neurologic exam?

- 1 to 60 minutes
- 61 to 120 minutes
- >120 minutes

Clinical neurology education

Does your program include a required clinical neurology rotation?

- Yes
- No

What is the length of the required clinical neurology rotation in weeks?

Is the required clinical neurology rotation primarily inpatient, outpatient, a more or less even distribution of the two, or flexible based on student preference?

- Inpatient
- Outpatient
- A more or less even distribution of the two
- Flexible

Does your program typically offer a clinical neurology elective?

- Yes
- No

What is the length of the clinical neurology elective in weeks?

Is the clinical neurology elective primarily inpatient, outpatient, a more or less even distribution of the two, or flexible based on student preference?

- Inpatient
- Outpatient
- A more or less even distribution of the two
- Flexible

What percentage of students elect to take the clinical neurology elective?

- 0
- 1-20
- 21-40
- 41-60
- 61-80
- 81-100

Please describe any other opportunities for clinical experience in neurology outside of a required or elective neurology rotation during the clinical phase of your curriculum:

(E.g. shadowing)

Preceptor characteristics

Which of the following providers do students work with during their neurology rotation?

- PAs practicing primarily in neurology
 APPs
 MD/DO neurologists
 Residents/fellows
 Others
(Select all that apply)

What other providers do your students work with during their neurology rotations?

Who is the primary preceptor for your neurology rotation?

- A PA practicing primarily in neurology
 An MD/DO neurologist
 Someone else
 We do not have a primary preceptor

Describe the primary preceptor for your neurology rotation:

(E.g. "A primary care physician" or "a neurosurgery PA")

How long, in years, has your primary preceptor been in their current role?

If your program offers both a didactic neurology course and a neurology clinical rotation, is the didactic course director and the primary preceptor the same person?

- Yes
 No

Program characteristics

Program name:

How many students are expected to graduate from your program this year?

What is your program's current PANCE pass rate?

(This measure is helpful for us to determine what percentage of work eligible graduates go on to work in neurology)

How many of your graduates per year, on average, go on to work in neurology?

- 0
 1-2
 3-5
 5-10
 >10
 Unknown

How many of your graduates per year, on average, go on to work in neurosurgery?

- 0
 1-2
 3-5
 5-10
 >10
 Unknown

Wrap up

If you experienced any discomfort as a result of this survey, please explain:

eAppendix 2: Program Website Review Rubric

Program Name- enter program name here

Required Neuro Didactic?- enter “1” if the program website indicates that there is a dedicated neuroscience didactic course; enter “0” if didactic courses are listed, but neuroscience is not included; leave this field blank if individual didactic courses are not listed

Duration- enter duration WITH UNIT (weeks, credits, etc.) of didactic neuroscience education (this could be either part of a dedicated neuroscience course or embedded into other courses); be as specific as possible with unit (e.g. if the unit is hours, specify whether these are “credit hours” or “contact hours” if this information is available); enter “0” if duration of other didactic courses are listed, but no time for neuroscience didactics is indicated; leave this field blank if duration of didactics are not included on the program website

Neuroanatomy?- enter “1” if the website indicates that neuroanatomy is covered in didactics, otherwise, leave this field blank

Neuropharmacology?- enter “1” if the website indicates that neuropharmacology is covered in didactics, otherwise, leave this field blank

Neurophysiology?- enter “1” if the website indicates that neurophysiology is covered in didactics, otherwise, leave this field blank

Neurologic disease?- enter “1” if the website indicates that neurologic disease is covered in didactics, otherwise, leave this field blank

Neuro exam?- enter “1” if the website indicates that the neurologic exam is covered in didactics, otherwise, leave this field blank

Neuro rads?- enter “1” if the website indicates that neuroradiology is covered in didactics, otherwise, leave this field blank

Other neuro topics?- list any other topics in neuroscience covered in didactics, as noted on the program website

Course director degree (PA, MD, PhD, MA, other)- list the degree of the course director of the didactic neuroscience course; if such a course does not exist, leave this field blank

Course director (Neuro, NSGY, other)- list the specialty of the course director of the didactic neuroscience course; if such a course does not exist or the director is not a clinician, then leave this field blank

Neuro:Cards- indicate the ratio of time spent covering neurology to time spent learning cardiology in didactics where this information is available; for example, if a program spends 2 weeks teaching neurology and 4 weeks teaching cardiology, this ratio would be 1:2; if the information required to determine this ratio is not available, then leave this field blank

Clinical opportunities? - list any opportunities for exposure to clinical neurology during the pre-clinical time (e.g. shadowing); if none are listed, then leave this field blank

Required neuro clinical?- enter “1” if the website indicates there is a required neurology clinical rotation; enter “0” if the website lists other required clinical rotations but neurology is not included; leave this field blank if required clinical rotations are not listed on the website

Program director name and degree- list the PD name and degree; if unlisted, then leave this field blank

Program director e-mail address- list the e-mail address of the program director; if unlisted, then leave this field blank

Comments- add anything you find important here that is not captured in the other columns (e.g. “this program is inactive” or “this is a post-graduate program”)