

Supplemental Appendix 1: Survey

Part 1. Educator's Background and Responsibilities

1. Which category best describes your background:
 - Nephrologist
 - *(If yes then the survey should offer:* besides teaching, is your primary activity
 - In the clinical arena
 - In the research arena
 - Physiologist
 - Are you involved in research?
 - Is your research in nephrology
 - Other? _____
 - Do you also teach other aspects of physiology to medical students
 - Physician non nephrologist
 - What is your primary specialty?
2. What is your ethnicity? Please choose one answer.
 - a. Not Hispanic or Latino
 - b. Hispanic or Latino
3. What race do you consider yourself to be? Choose all that apply.
 - a. White
 - b. Black or African American
 - c. American Indian or Native American
 - d. Asian
 - e. Native Hawaiian or other Pacific Islander
4. Please describe the number of years that you have served as Course Director
 - a. <3
 - b. 3-5
 - c. 6-10
 - d. >10 years

5. Do you teach in the (check all that apply)
 - a. First year of medical school
 - b. Second year of medical school
6. Do you teach (check all that apply)
 - a. Renal physiology
 - b. Renal pathophysiology
 - c. Combined physiology and pathophysiology
 - d. Renal pathology
7. Do you also teach in the clinical arena (check all that apply)
 - a. Medical students on the wards
 - b. Medical students in the ambulatory setting
 - c. House staff on the wards
 - d. House staff in the ambulatory setting
 - e. Nephrology fellows

Part II. Course Format and Participants:

8. Approximately how many medical students participate in your course each year
9. Are there additional students in your course
 - a. Dental students
 - b. Allied medical fields such as psychologists
 - c. PhD candidates
10. Your course is taught over: _____ Weeks
11. Approximately how many total hours is your course:
 - a. <30 hours
 - b. 30-45
 - c. 45-60
 - d. >60 hours
12. Approximately how many hours of lecture are included in your course _____

13. In the past ten years, has the time devoted to your course
- a. Increased
 - b. Decreased
 - c. Unchanged
14. Are lectures videotaped?
- a. *Yes-if yes, does this decrease attendance* Y N
 - b. No
15. Lectures are given by
- a. 1-3 individuals
 - b. >3 individuals
16. The total number of faculty in the course is _____
17. Small group sessions are lead by (check all the apply)
- a. More senior medical students
 - b. Graduate students
 - c. Physiology faculty
 - d. House staff
 - e. Fellows
 - f. Nephrology faculty
 - g. Pathology faculty
18. Recruiting faculty for small group sessions is
- a. Relatively easy, if *so why?* (Check all that apply)
 - i. Popularity
 - ii. Commitment and interest of faculty in teaching
 - iii. Leadership within the Division and/or Institution
 - b. Challenging (check all that apply)
 - i. Lack of interest
 - ii. Scheduling conflicts
 - iii. Lack of Division/Institution support for teaching.

19. Your course is taught in the (check all that apply)
- a. Lecture hall
 - b. Tutorial rooms (<10 students)
 - c. Small groups (10-30 students)
 - d. Moderate sized groups/seminar (30-50)
 - e. Simulation center
 - f. Laboratory
20. Is there a final examination at the end of your course
- a. Yes (if yes, check all that apply)
 - i. Multiple choice
 - ii. Short answer
 - b. No, a combined examination with other disciplines

Part III Course Resources and Content

21. Do you use: (check all that apply)
- a. Multi-headed microscopes
 - b. Virtual microscopy
 - c. Smart boards
 - d. Audience response system (ARS)
 - e. Chat room or blog
 - f. Social media such as Facebook
 - g. Twitter
 - h. Chalk board
 - i. Problem based learning cases in small groups
 - j. Simulation center
 - k. Patient videotapes or visits
22. Do you provide a comprehensive syllabus (i.e. no additional textbook is necessary)
- a. Yes
 - b. No

23. Do you have a required textbook? _

a. Yes-

- i. Renal pathophysiology: the Essentials (Rennke and Denker)
- ii. Nephrology in 30 Days (Reilly and Perazella)
- iii. Primer on Kidney Diseases (Greenberg)
- iv. Renal System at a Glance (O'Callaghan)
- v. Vander's Renal Physiology
- vi. Other _____

b. No

24. There is an increasing trend for students to utilize a Board Review textbook as their primary source. Do the majority of your students utilize such a book for your course?

- a. Yes (*if yes then the survey should offer the following question have you reviewed the material in this book? Are you satisfied with the coverage of the material?*)
- b. No

25. The course content includes (check all that apply)

- a. Renal pathology (if yes, approximately _____ hours)
- b. Urology (if yes, approximately _____ hours)
- c. Physiologic changes in pregnancy and obstetric complications
- d. Kidney stones
- e. Cultural competencies
- f. Ethics
- g. Pediatric issues
- h. Embryology

26. In your role as Course Director, you utilize which of the following resources:
- The journal, Academic Medicine
 - The Journal of the American Physiologic Society and/or their educational resources
 - The Journals of the American Society of Nephrology and/or their website
 - American Journal of Kidney diseases and /or their website
 - Other (if yes, list)
27. The Internet is quickly changing the educational landscape. How do you utilize the Internet? (Check all that apply)
- You have your own website
 - The institution has a website which allows you to post materials
 - You recommend several popular websites

PART III Feedback and Compensation

28. For your efforts as course director, there is faculty compensation:
- Yes, if yes:
 - <\$2,500
 - 2,500-5,000
 - 5,000-7,500
 - 7,500-10,000
 - 10,000-15,000
 - >15,000
 - No
29. For your efforts as course director, your department or division has allotted a percentage of your time:
- No allocation of time is specifically recognized
 - 0.1 FTE (full time equivalent, i.e. Half day weekly)
 - 0.2 FTE (i.e. One full day weekly)
 - 0.3-0.4

30. In your role as course director, you receive feedback from your institution (check all that apply)
- On your course as a whole
 - On your lectures
 - On your materials
 - Small group teaching
31. In your role as course director, there are opportunities for faculty development:
- Yes (if yes, describe)
 - No
32. Do you feel that your efforts are valued by the (check all that apply)
- Students
 - Medical school
 - Your division
 - Hospital (if applicable)
33. There are opportunities for “horizontal” integration of material with other courses (respiratory, hematology, etc)
- Yes
 - No
34. There are opportunities for “vertical” integration of materials with other courses (first and second year course or the clinical years)
- Yes
 - No
35. Do you know the names of the individuals who run an elective in nephrology for your students in the clinical years?
- Yes
 - No
36. The topic that your students find most difficult is:
- Sodium and water homeostasis
 - Acid base disorders
 - Acute kidney injury
 - Glomerular diseases

37. As a course leader, the issues that you find most frustrating include: (check all that apply)

- a. Reduced time allotted to the course
- b. The combination of physiology and pathophysiology in one course
- c. Negative student reviews
- d. Students' preparation for the NBME
- e. Lack of student attendance at lectures
- f. Difficulty recruiting faculty
- g. Other (describe)

38. As course leader, the activity or innovation for which you are most proud _____

39. Are there additional thoughts that you would like to share?

Thank you for participating in this survey. When results are available, we will share these with the participants.