Information Technology in Primary Care Practice

University of Washington, Seattle WA

This is a questionnaire designed to be completed by nurses and physicians in an ambulatory setting. The tool includes questions to assess user's perceptions of electronic health records.

Permission has been obtained from the survey developers for unrestricted use of this survey; it may be modified or used as is without additional permission from the authors.

Please tell us a bit about yourself so we can better analyze the data. Please remember that this will be kept in strict confidence.

Are you: _____Male _____Female

If you are a prescriber, what year did you graduate from medical/professional school: _____

Circle your degree: MD DO ARNP PA

What is your year of birth: _____

Circle your department:
          Imed   Peds   WIC

About your practice:

FP   About how many hours per week do you spend doing clinical work: _____

In your average hour at work, how many patients do you see: _____

About how many hours per week do you spend doing other medically related work: _____

Do you use a computer at home for professional use?
                    ___ No

Do you use a computer at home for personal use?
                    ____No

Finally, how would you rate your knowledge about computers in your practice:
          Novice   Expert

          1   2   3   4   5   6   7
_____

Thanks for your help. Please return the questionnaire in the enclosed envelope.

Page 8

©1999 David R. Dixon

___Yes

___Yes

Information Technology
in
Primary Care Practice

This questionnaire is being used in the research project entitled
"Evaluating the Impact of an ACPOE/CDS System on Outcomes: The Human Factors Aspects".
This project is being conducted jointly by the University of Washington School of Pharmacy and The Everett Clinic; and is supported by a grant from the Agency for Healthcare Research and Quality
(1UC1 HS 15319-01)

This questionnaire can be completed in under 15 minutes.
Your participation is voluntary and you do not have to answer every question.

Your assistance in completing this questionnaire is greatly appreciated.

Please return your completed questionnaire to Sunshine Milson in Pharmacy Services.

AHRQ Grant Investigators
The Everett Clinic
Jennifer Wilson-Norton, RPh, MBA   ext. 3656
Nathan M. Lawless, CE, RPh   ext. 3657
Richard J. Rafoth, MD   ext. 2123
Albert W. Fisk, MD, MMM   ext. 2111

University of Washington
Sean D. Sullivan, PhD   206-685-8153
Beth Devine, PharmD, MBA   206-221-5760
Will Hollingworth, PhD   206-616-7090
Thomas H. Payne, MD   206-616-8435
David R. Dixon, MD, MCISc, Consultant

Consent version ©1999 David R. Dixon   1/27/2005

Information Technology in Primary Care Practice

The role of computers and information technology in the provision of health care is expanding rapidly. *Information Technology in Primary Care Practice* was first developed by Dr. Dixon to assess computer use by family physicians in Ontario, Canada. Dr. Dixon is one of our collaborators and has agreed to let us use his questionnaire to see how it performs in different groups of physicians, and with different types of technology, specifically electronic prescribing. We expect that by using it we will be able to help physicians better use available information technologies.

This questionnaire was developed by:

David R. Dixon, BSc, MD, MClSc (FM), CCFP

Byron Village Medical Centre
1255 Commissioners Rd. West
London, Ontario, N6K 3N5
E-mail: ddixon@uwo.ca.
Phone: 519- 641-6712

For purposes of this survey, please interpret:
    "Physicians" = Prescribers
    "Prescribers include: MD, DO, ARNP, PA"
    "My (patients or practice)" = Our (patients or practice)
    "Computers = technology, CMR, MedMan"

Please indicate how often you personally use the following information technologies in your practice.

In the next column, please indicate how interested you are in using each of the items in your practice.

Please (circle) the number that best matches your response.

	Expected Usage			Interest		
	Never Rarely Frequently			Extreme Disinterest Extreme Interest		
Practice Management (PLUS; billing, appointments)	0 1 2 3 4 5			1 2 3 4 5		
Word Processing (to create documents)	0 1 2 3 4 5			1 2 3 4 5		
Research (stats, library)	0 1 2 3 4 5			1 2 3 4 5		
E-Mail (sending or receiving)	0 1 2 3 4 5			1 2 3 4 5		
Electronic Patient Records (CMR) (not with the patient)	0 1 2 3 4 5			1 2 3 4 5		
Electronic Patient Encounter (CMR) (with the patient)	0 1 2 3 4 5			1 2 3 4 5		
Internet (world wide web)	0 1 2 3 4 5			1 2 3 4 5		
Decision Support (guidelines, protocols)	0 1 2 3 4 5			1 2 3 4 5		

computer use.

1 2 3 4 5

31. Overall, computers are easy to use.

1 2 3 4 5

32. It will be easy to change the way my practice operates to accommodate computer use.

1 2 3 4 5

33. I will be able to change patient outcomes with computer use.

1 2 3 4 5

34. My patients are supportive of computer use in medical practice.

1 2 3 4 5

35. My patients are comfortable with computer use in medical practice.

1 2 3 4 5

36. Help will be easily accessible if I have problems with my office computer.

1 2 3 4 5

37. Having a computer system installed in my practice will be complicated.

1 2 3 4 5

Please indicate if you agree or disagree with the following statements.

Please (circle) the number that best fits your response.

Strongly Disagree   Strongly Agree

1. I expect to use computers in my medical practice.

1 2 3 4 5

2. It is important to me to be able to use computers in my practice.

1 2 3 4 5

3. I plan to obtain computer-generated information in my practice.

1 2 3 4 5

4. I am interested in using computers in my practice.

1 2 3 4 5

5. I plan to upgrade my computer skills so I can use computers in my medical practice.

1 2 3 4 5

6. Physicians will be able to work more quickly by using computers.

1 2 3 4 5

7. Using computers will allow physicians to be more productive.

1 2 3 4 5

8. Computers will allow physicians to practice more effectively.

1 2 3 4 5

9. Practicing medicine will be made easier with computers.

1 2 3 4 5

10. Overall, physicians will be able to

reach the correct diagnosis more
frequently by using computers.

1 2 3 4 5

11. I frequently apply a computer to new
and different problems.

1 2 3 4 5

12. In general, I am capable at applying
computers to solve problems in my
practice.

1 2 3 4 5

13. Overall, computers are useful to my
medical practice.

1 2 3 4 5

14. My colleagues accept computer use in
medical practice.

1 2 3 4 5

15. I feel pressured to use computers in my
practice.

1 2 3 4 5

16. It is appropriate to use computers in
practice.

1 2 3 4 5

17. Using a computer in practice would
conflict with guidelines concerning
acceptable medical practice.

1 2 3 4 5

18. Computer use is acceptable to me for
my practice.

1 2 3 4 5

19. It is a personal priority to use
computers in my practice.

1 2 3 4 5

20. It is a priority of my clinic to use
computers in medical practices.

1 2 3 4 5

21. I expect to see a favorable change in
patient outcomes with computer use.

1 2 3 4 5

22. I expect to see a favorable change in
the way my practice operates with
computer use.

1 2 3 4 5

23. It is easy to learn new computer
applications.

1 2 3 4 5

24. It is easy to master computer
interactions.

1 2 3 4 5

25. Interactions with computers are clear
and easy to understand.

1 2 3 4 5

26. Computers are flexible to work with.

1 2 3 4 5

27. In general, I am creative in using
software packages to solve problems.

1 2 3 4 5

28. I am innovative when using software
packages to solve problems.

1 2 3 4 5

29. I try to apply computers in new ways
when solving a problem.

1 2 3 4 5

30. It is easy to become skilful in