

Computer Literacy Survey: Michigan Public Health Institute

Michigan Public Health Institute, Ann Arbor, MI

This is a questionnaire designed to be completed by clinical staff in an ambulatory setting. The tool includes questions to assess the current state of electronic health records.

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1. Demographics

1. Your 5 Digit ID #

2. Your age

3. Your gender

Male

Female

4. Provider Type

Advanced practice nurse

Physician

Physical therapist

Dentist

Social worker

Optometrist

Podiatrist

Other (please specify)

5. What is your specialty?

Family Practice

Adult/Internal medicine

Mental/Behavioral Health

Midwife

OB/GYN/Women's Health

Pediatrics

Other (please specify)

6. Years in practice

7. Years working in clinic

8. Country of Origin

United States

Other (please specify)

2. Computer Experience

1. In a typical work week, how many hours do you personally use a computer hands-on?

(If you do not use a computer in a typical work week, please skip to next page)

2. What kind(s) of computer(s) do you use? (Check all that apply)

- Macintosh
- IBM PC or Compatible
- Terminal connected to a remote mainframe computer (e.g., hospital information system)
- High-performance scientific workstation
- Other (please specify)

3. To what extent do you personally use a computer for each of the following professional tasks? Please respond based on your personal actions versus what someone else does for you. Please select the answer that best represents you.

	Never perform this task	Perform this task but never use a computer	Sometimes use a computer	Often use a computer	Always use a computer
Documenting patient information (e.g., history & physicals, progress notes)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accessing clinical data (e.g., laboratory data, EKGs, radiology reports)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicating with colleagues	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Obtaining advice on specific patient's diagnosis or therapy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scheduling patient appointments	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Writing (e.g., grants, research papers, teaching material)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Preparing presentation slides and overheads	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Performing statistical analysis on clinical or research data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Searching the medical literature (e.g., MEDLINE)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Teaching students and interns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. What kind(s) of computer(s) do you routinely use? (Check all that apply)

- Desktop computer at office
- Desktop computer at home
- Portable or notebook computer
- Other (please specify)

3. Computer Experience cont

1. What training or experience with computers have you had? (Check all that apply)

- Formal course(s) in computer science or related field
- Formal training in computers
- Workshops or conferences on computers
- Self-guided learning about computers
- None

2. On the whole, how sophisticated a computer user do you consider yourself

- Very sophisticated
- Sophisticated
- Neither sophisticated nor unsophisticated
- Unsophisticated
- Very Unsophisticated

4. Computer Knowledge

1. Below are a set of paired terms that relate to computers in clinical practice. Please score your knowledge of the distinction between the terms in each pair, using the following scale.

	I don't understand the distinction at all	I have a general appreciation of the distinction but couldn't define it	I can define the distinction precisely
Hardware <--> Software	€	€	€
Images <--> Graphics	€	€	€
Web <--> Usernet	€	€	€
Free text <--> Coded data	€	€	€
Field <--> Record	€	€	€
Relational database <--> Flat-file database	€	€	€
Data in memory <--> Data on disk	€	€	€
Sensitivity <--> Positive Predictive Value	€	€	€
ICD9-CM <--> SNOMED	€	€	€
Entities <--> Relationships	€	€	€
Floppy Disk <--> Hard Disk	€	€	€
Full-text database <--> Bibliographic database	€	€	€
Interpreter <--> Compiler	€	€	€
Mainframe computer <--> Personal computer	€	€	€
Electronic mail <--> Electronic bulletin board	€	€	€
Client <--> Server	€	€	€
Digital <--> Analog	€	€	€
Database <--> Knowledge base	€	€	€

5. Applications of Computers in Clinical Practice

1. Potential effects of computers. Given below are some effects that computers may have on clinical practice and health care. For each, indicate whether you believe the effect will be beneficial or detrimental using the scale below.

EFFECTS OF COMPUTERS ON

	Highly detrimental	Detrimental on the whole	Neither detrimental nor beneficial	Beneficial on the whole	Highly beneficial
Costs of health care	Jn	Jn	Jn	Jn	Jn
Clinician autonomy	Jn	Jn	Jn	Jn	Jn
Quality of health care	Jn	Jn	Jn	Jn	Jn
Interactions within the health care team	Jn	Jn	Jn	Jn	Jn
Role of the government in health care	Jn	Jn	Jn	Jn	Jn
Access to health care in remote or rural areas	Jn	Jn	Jn	Jn	Jn
Management of medical/ethical dilemmas	Jn	Jn	Jn	Jn	Jn
Enjoyment of clinical practice	Jn	Jn	Jn	Jn	Jn
Status of health care profession	Jn	Jn	Jn	Jn	Jn
Continuing education	Jn	Jn	Jn	Jn	Jn
Clinicians' stress level	Jn	Jn	Jn	Jn	Jn
The self-image of clinicians	Jn	Jn	Jn	Jn	Jn
Humaneness of clinical practice	Jn	Jn	Jn	Jn	Jn
The rapport between clinicians and patients	Jn	Jn	Jn	Jn	Jn
Personal and professional privacy	Jn	Jn	Jn	Jn	Jn
Clinician's access to up-to-date knowledge	Jn	Jn	Jn	Jn	Jn
Patients' satisfaction with the quality of care they receive	Jn	Jn	Jn	Jn	Jn
Generalists' ability to manage more complex problems	Jn	Jn	Jn	Jn	Jn

6. At-work environment

1. Do I know what is expected of me at work?

Yes

No

2. Do I have the materials and equipment I need to do my work correctly?

Yes

No

3. At work, do I have the opportunity to do what I do best everyday?

Yes

No

4. In the last 7 days, have I received recognition or praise for doing good work?

Yes

No

5. Does my supervisor, or someone at work, seem to care about me as a person?

Yes

No

6. Is there someone at work who encourages my development?

Yes

No

7. At work, do my opinions seem to matter?

Yes

No

8. Does the mission purpose of my company make me feel that my job is important?

Yes

No

9. Are my co-workers committed to doing quality work?

Yes

No

10. Do I have a best friend at work?

Yes

No

11. In the last 6 months, has someone at work talked to me about my progress?

Yes

No

12. This past year, have I had opportunities at work to learn and grow?

Yes

No