



# MEDICINE

## Merit Badge Requirements

- 1) Discuss with your counselor the influence that EIGHT of the following people had on the history of medicine:
  - A) Hippocrates
  - B) William Harvey
  - C) Antoine Van Leeuwenhoek
  - D) Edward Jenner
  - E) Florence Nightingale
  - F) Louis Pasteur
  - G) Gregor Mendel
  - H) Joseph Lister
  - I) Robert Koch
  - J) Wilhelm Conrad Roentgen
  - K) Marie and Pierre Curie
  - L) Walter Reed
  - M) Karl Landsteiner
  - N) Alexander Fleming
  - O) Jonas Salk
  - P) James Watson & Francis Crick
  
- 2) Explain the Hippocratic Oath to your counselor, and compare to the original version to a more modern one. Discuss to whom those subscribing to the original version of the oath owe the greatest allegiance.
  
- 3) Discuss the health care provider-patient relationship with your counselor, and the importance of such a relationship in the delivery of quality care to the patient. Describe the role of confidentiality in this relationship.
  
- 4) Do the following:
  - A) Describe the roles the following people play in the delivery of health care in your state. (Note: Not all may exist in your state.)
    - 1) Physician
    - 2) Chiropractor
    - 3) Optometrist
    - 4) Podiatrist
    - 5) Pharmacist
    - 6) Psychologist
    - 7) Physician's Assistant
    - 8) Nurse Practitioner
    - 9) Nurse-Midwife
    - 10) Registered Nurse
    - 11) Licensed Vocational / Practical Nurse
    - 12) Medical Assistant
    - 13) Emergency Medical Technician
    - 14) Medical Laboratory Technologist
    - 15) Radiologic Technologist
    - 16) Physical Therapist
    - 17) Occupational Therapist
    - 18) Respiratory Therapist
  - B) Describe the educational and licensing requirements for five of those in 4(A) -- other than 4(A)(1) -- practicing health care in your state.

- 5) A) Tell what is meant by the term "primary care" with regard to a medical specialty. Briefly describe the types of work done by physicians in the following "core" specialties:
- 1) Internal Medicine (a "primary care" specialty)
  - 2) Family Practice
  - 3) Obstetrics / Gynecology (a "primary care" specialty)
  - 4) Pediatrics (a "primary care" specialty)
  - 5) Psychiatry
  - 6) Surgery
- B) Describe the additional educational requirements for these specialties.
- 6) A) Briefly describe the types of work performed by physicians in FIVE of the following specialties or subspecialties:
- |                                 |  |
|---------------------------------|--|
| 1) Allergy / Immunology         | 15) Nuclear Medicine                                 |
| 2) Anesthesiology               | 16) Ophthalmology                                    |
| 3) Cardiovascular Disease       | 17) Orthopedic Surgery                               |
| 4) Colon and Rectal Surgery     | 18) Otolaryngology / Head & neck Surgery             |
| 5) Dermatology                  | 19) Pathology  |
| 6) Emergency Medicine           | 20) Physical Medicine & Rehabilitation               |
| 7) Endocrinology and Metabolism | 21) Plastic, Reconstructive, & Maxillofacial Surgery |
| 8) Gastroenterology             | 22) Preventive medicine                              |
| 9) Geriatric Medicine           | 23) Radiology  |
| 10) Hematology / Oncology       | 24) Rheumatology                                     |
| 11) Infectious Disease          | 25) Thoracic / Cardiothoracic Surgery                |
| 12) Nephrology                  | 26) Urology  |
| 13) Neurological Surgery        | 27) Vascular Surgery                                 |
| 14) Neurology                   |  |
- B) Describe the additional educational requirements for the five specialties or subspecialties you chose in 6(A).
- 7) A) Visit a physician's office, preferably one who delivers "primary care". (This may be that of your counselor.) Discuss the components of a medical history and physical examination (an official BSA health form may be used to guide this discussion), and become familiar with the instruments used. \* If this cannot be arranged, demonstrate to your counselor that you understand components of a medical history and physical, and discuss the instruments involved.
- B) Describe the characteristics of a good diagnostic test to screen for disease (eg, routine blood pressure measurement). Explain briefly why diagnostic tests are not perfect.
- C) Show how to take a blood pressure reading and pulse reading.
- 8) Do the following:
- A) Discuss the roles medical societies, the insurance industry, and the government play in influencing the practice of medicine in the United States.
- B) Briefly tell how your state monitors the quality of health care within its borders, and how it provides care to those who do not have health insurance.
- 9) Compare and discuss with your counselor the health care delivery systems in the United States, Sweden, and China.
- 10) Serve as a volunteer at a health-related event or facility in your community (eg, blood drive, "health fair", blood pressure screening, etc.) approved by your counselor.

### Requirement 1

Select eight people or events from the list of requirements and use the following area to describe the influence it had on the history of medicine.

1 Person/Event: \_\_\_\_\_

Influence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2 Person/Event: \_\_\_\_\_

Influence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3 Person/Event: \_\_\_\_\_

Influence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4 Person/Event: \_\_\_\_\_

Influence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5 Person/Event: \_\_\_\_\_

Influence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6 Person/Event: \_\_\_\_\_

Influence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7 Person/Event: \_\_\_\_\_

Influence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8 Person/Event: \_\_\_\_\_

Influence: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Requirement 2**

Please explain the Hippocratic Oath: \_\_\_\_\_

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How does the original version of the Hippocratic Oath differ from a more modern one? \_\_\_\_\_

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For those subscribing to the original version of the Hippocratic Oath, to whom do they owe the greatest allegiance? \_\_\_\_\_

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**Requirement 3**

Discuss the health care provider-patient relationship: \_\_\_\_\_

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What is the importance of the health care provider-patient relationship in the delivery of quality care to the patient? \_\_\_\_\_

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Do you believe that quality patient care can be achieved without a good relationship between the health care provider and patient? Why or why not? (not required for merit badge) \_\_\_\_\_

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Describe the role of confidentiality in the health care provider-patient relationship: \_\_\_\_\_

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**Requirement 4**

Below you will find a list of people in the health care industry. For each individual you must describe the role that they play in the delivery of health care in your state. Note: not all may exist in your state. If you need more room use another piece of paper and attach it to this worksheet.

Physician: \_\_\_\_\_

Chiropractor: \_\_\_\_\_

Optometrist: \_\_\_\_\_

Podiatrist: \_\_\_\_\_

Pharmacist: \_\_\_\_\_

Psychologist: \_\_\_\_\_

Physician's Assistant: \_\_\_\_\_

Nurse Practitioner: \_\_\_\_\_

Nurse-Midwife: \_\_\_\_\_

Registered Nurse: \_\_\_\_\_

Licensed Vocational / Practical Nurse: \_\_\_\_\_

Medical Assistant: \_\_\_\_\_

Emergency Medical Technician (EMT): \_\_\_\_\_

Medical Laboratory Technologist: \_\_\_\_\_

Radiologic Technologist: \_\_\_\_\_

Physical Therapist: \_\_\_\_\_

Occupational Therapist: \_\_\_\_\_

Respiratory Therapist: \_\_\_\_\_

Scout Name: \_\_\_\_\_ Unit #: \_\_\_\_\_ Date: \_\_\_\_\_

Are there any that do not exist in your state? If so, which ones? \_\_\_\_\_  
\_\_\_\_\_

For 5 of the people listed in 4(A), describe the educational and licensing requirements for these individuals in the state you live in. You may not use Physician as one of the people.

1 Person/Job: \_\_\_\_\_

Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Licensing Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2 Person/Job: \_\_\_\_\_

Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Licensing Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3 Person/Job: \_\_\_\_\_

Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Licensing Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4 Person/Job: \_\_\_\_\_

Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Licensing Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5 Person/Job: \_\_\_\_\_

Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Licensing Requirements: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Requirement 5**

What is meant by the term "primary care" with regard to a medical specialty? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Using the spaces provided below briefly describe the types of work done by physicians in the following "core" specialties:

Internal Medicine: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Family Practice: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Obstetrics/Gynecology: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Pediatrics: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Psychiatry: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Surgery: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Use the area below to list the additional educational requirements for the five specialties listed above.

Internal Medicine: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Family Practice: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Obstetrics/Gynecology: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Pediatrics: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Psychiatry: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Surgery: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Requirement 6**

Choose 5 of the specialties or subspecialties listed for requirement 6 and use the area below to briefly describe the types of work performed in these areas.

1 Specialty: \_\_\_\_\_

Type of work performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2 Specialty: \_\_\_\_\_

Type of work performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3 Specialty: \_\_\_\_\_

Type of work performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4 Specialty: \_\_\_\_\_

Type of work performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5 Specialty: \_\_\_\_\_

Type of work performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Use the area below to list the additional educational requirements for the five specialties listed above.

1 Specialty: \_\_\_\_\_  
Additional Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_

2 Specialty: \_\_\_\_\_  
Additional Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_

3 Specialty: \_\_\_\_\_  
Additional Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_

4 Specialty: \_\_\_\_\_  
Additional Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_

5 Specialty: \_\_\_\_\_  
Additional Educational Requirements: \_\_\_\_\_  
\_\_\_\_\_

**Requirement 7**

\* If a visit to a physician's office could not be arranged, demonstrate to your counselor that you understand the components of a medical history and physical, and discuss the instruments involved.

As part of this requirement you are asked to visit a physician's office and discuss the components of a medical history. What did you find out during your discussion? \_\_\_\_\_

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Another part of your discussion was to include the components of a medical exam. What did you discuss and find out? \_\_\_\_\_

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What are the instruments used during a standard medical exam? \_\_\_\_\_

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Describe the characteristics of a good diagnostic test to screen for disease: \_\_\_\_\_

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Explain why diagnostic tests are not perfect: \_\_\_\_\_

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Briefly describe the steps you take when you take a blood pressure reading and a pulse reading: \_\_\_\_\_

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Demonstrate to your counselor how to take a blood pressure reading and a pulse reading.

