



MEDICINE

Merit Badge Requirements

1) Discuss with your counselor the influence that EIGHT of the following people or events had on the history of medicine:

- A) Hippocrates
- B) The invention of Gunpowder
- C) William Harvey
- D) Antoine Van Leeuwenhoek
- E) Edward Jenner
- F) Florence Nightingale
- G) Louis Pasteur
- H) Gregor Mendel
- I) Joseph Lister
- J) Robert Koch
- K) Wilhelm Conrad Roentgen
- L) Marie and Pierre Curie
- M) Walter Reed
- N) Karl Landsteiner
- O) Alexander Fleming
- P) Jonas Salk
- Q) 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: _____

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

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

Requirement 3

Discuss the health care provider-patient relationship: _____

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

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) _____

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

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? _____

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

What are the instruments used during a standard medical exam? _____

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

Explain why diagnostic tests are not perfect: _____

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

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

