



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

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 those specialties.

6)

A) Briefly describe the types of work performed by physicians in FIVE of the following specialties or subspecialties:

- 1) Allergy / Immunology
- 2) Anesthesiology
- 3) Cardiovascular Disease
- 4) Colon and Rectal Surgery
- 5) Dermatology
- 6) Emergency Medicine
- 7) Endocrinology and Metabolism
- 8) Gastroenterology
- 9) Geriatric Medicine
- 10) Hematology / Oncology
- 11) Infectious Disease
- 12) Nephrology
- 13) Neurological Surgery
- 14) Neurology
- 15) Nuclear Medicine
- 16) Ophthalmology
- 17) Orthopedic Surgery
- 18) Otolaryngology / Head & Neck Surgery
- 19) Pathology
- 20) Physical Medicine & Rehabilitation/Sports Medicine
- 21) Plastic, Reconstructive, & Maxillofacial Surgery
- 22) Preventive Medicine
- 23) Radiology
- 24) Rheumatology
- 25) Thoracic / Cardiothoracic Surgery
- 26) Urology
- 27) Vascular Surgery

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, Canada, and Mexico.

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: _____

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' 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.

