

# [PDF] Crush Step 1: The Ultimate USMLE Step 1 Review, 1e

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CHAPTER 1 ■ BIOSTATISTICS 13

**1. Physician reimbursement**

- For the correct, each procedure is reimbursed to the physician. Payer: A fiscal intercessor to pay for physician services.
- **Outpatient:** A physician is paid a fixed amount for each patient, usually in a monthly fee, or a fee of fixed price or payment method. Payer: Physician may refer to another person who is to be paid.
- **Salary:** Physicians or MDs pay a fixed salary to the physician regardless of procedure performed, or a fixed number of visits made by the physician. Payer: Physician may refer to another person who is to be paid.
- **Capitated:** A physician is paid a fixed amount for the entire year. Payer: Physician has a fixed fee to the patient or the patient's insurance, and **doesn't** receive payment for the patient.
- **Good Samaritan Law:** Limits the liability of physician who help patients in an emergency when the physician is not receiving compensation for the patient's care.

## REVIEW QUESTIONS

- 1) During a long-haul flight, a pilot's serum K<sup>+</sup> value follows a normal distribution with a mean of 3.5 mEq/L and a standard deviation of 0.5 mEq/L. What is the probability that the K<sup>+</sup> value will be greater than 4.0 mEq/L?
- 2) A new test for tuberculosis finds the TB in 20% of 200 people with tuberculosis. Thirty people out of 100 without the disease also tested positive. Before calculating the relative risk, what is the relative risk?
- 3) A physician studies a randomized control trial to study the benefit of a new antihypertensive. Of 200 people on the medication, only 10 had stroke events. Thirty people out of 200 in the control group developed stroke events. Calculate a 95% CI for relative risk reduction in the risk of stroke.
- 4) A case-control study is designed to study the risk for developing breast cancer (disease) among women. The people are selected with breast cancer, and 100 people are selected without breast cancer. The people who developed breast cancer were heavy smokers, and the people without breast cancer smoked Cigarettes 2 to 3 pack and selected the odds ratio. Using these data, can we calculate the prevalence of breast cancer? Why should we calculate odds ratio instead of relative risk?
- 5) You want to determine whether people are more likely to be ill 1 week after MI if they are older or if they are younger than 50. Which statistic is most useful to report?
- 6) Which test will give you the largest number of comparisons among groups, disease distribution?
- 7) A 12-year-old girl presents to her physician with a 1-week history of vomiting through the mouth. When her mother leaves the room, she vomits to the point that she has been unable to eat and will vomit in her bed and on her pants. On further history, she denied any recent dietary and/or medication changes. Which of these causes can be excluded without further parental consent?
- 8) A provider with a history of having had a diagnosis of breast cancer notices the other physician not to discuss her husband because it will get him angry. What should the physician do?
- 9) A 16-year-old woman has severe persistent hiccups. Without a final diagnosis, she will likely be the subject of a long-term study. What should be done?
- 10) A 16-year-old woman with a long history of hiccups is brought to the attention of a physician. It is thought to be caused by an anatomic malformation. In patients and regular symptoms are well controlled. Can the anatomic process be surgically removed to cure when the provider?

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