

## VARIABLES AND SAMPLING METHODS

- Which of the following is an example of an ordinal variable?
  - Childhood diseases
  - Annually fees for health care
  - Pain scale (no pain, very mild, discomforting, tolerable, distressing, very distressing, intense, very intense, utterly/horrible, excruciating/unbearable, unimaginable/unspeakable)
  - The first three digits of your health care insurance number
  - Your favourite drops
- Which of the following is most likely a continuous quantitative variable?
  - The number of heart attacks of one person during the life
  - The number of surgical interventions performed in a hospital per day
  - Number of bacteria on a culture plate
  - Number of red blood cells
  - The time needed to perform a surgical intervention
- Which of the following are most likely discrete quantitative variable?
  - The number of heart attacks of one person during the life
  - The number of surgical interventions performed in a hospital per day
  - Number of bacteria on a culture plate
  - Number of red blood cells
  - The time needed to perform a surgical intervention
- The manager of a health insurance agency wishes to monitor the quality of life of persons with lumbar disk herniation. The manager applies on a randomly chosen sample the EORTC questionnaire and collected data related to type of treatment (surgical, physical therapy, chiropractic manipulation, heat and/or ice therapy, non-steroidal anti-inflammatory drugs, oral steroids, epidural injection), number of surgeries if any, and the type of surgery (microdiscectomy, microendoscopic surgery, etc.). What type of variable is "number of surgery"?
  - quantitative and discrete
  - quantitative and continuous
  - qualitative and discrete
  - qualitative and continuous
  - quantitative and nominal
- The manager of a health insurance agency wishes to monitor the quality of life of persons with lumbar disk herniation. The manager applies on a randomly chosen sample the EORTC questionnaire and collected data related to type of treatment (surgical, physical therapy, chiropractic manipulation, heat and/or ice therapy, non-steroidal anti-inflammatory drugs, oral steroids, epidural injection), number of surgeries, and the type of surgery (microdiscectomy, microendoscopic surgery, etc.). What type of variable is "type of treatment"?
  - quantitative and discrete
  - quantitative and continuous
  - qualitative and nominal
  - qualitative and ordinal
  - qualitative and dichotomial
- Which of the following is a qualitative variable?
  - health care annual contribution
  - weight
  - age
  - number of siblings
  - eye colour
- A study is done to determine the average salary for all Romanian cardiologists. If we were to pick the biggest hospitals in Cluj-Napoca, Bucharest, Iasi, Constanța and Timișoara and average together the salaries of all cardiologists, would this be a good sampling technique or a bad sampling technique?
- A sample consists of every 49<sup>th</sup> student from a group of 496 students.
  - Random
  - Stratified
  - Cluster
  - Systematic
  - Convenience
- To avoid working late, a quality control analyst simply inspects the first 100 items produced in a day.
  - Stratified
  - Random
  - Cluster
  - Convenience
  - Systematic