



Renal clearance

1- If the substance is freely filtered at the glomeruli and is not reabsorbed, secreted or metabolized in the nephron (such as Inulin), then:

- A. *Amount absorbed per minute = Amount excreted per minute.*
- B. *Amount absorbed per minute = Amount leak out per minute.*
- C. *Amount filtered per minute = Amount excreted per minute.*
- D. *Amount filtered per minute = Amount reabsorbed per minute.*
- E. *Amount secreted per minute = Amount excreted per minute.*

2- What does the clearance depend on?

- A. *Clearance of a substance depends on secretion.*
- B. *Clearance of a substance depends on filtration.*
- C. *Clearance of a substance depends on excretion.*
- D. *Conc. of substance in blood.*
- E. *Conc. of substance in urine.*

3- All of the following are criteria of a substance used for GFR measurement, except?

- A. *Should not be secreted by the tubular cells.*
- B. *Should not be reabsorbing by the tubular cells.*
- C. *Should not be toxic.*
- D. *Should be metabolized.*
- E. *Should be easily measurable.*

4- To measure renal plasma flow we will have to measure : Renal blood flow first?

- A. *True.*
- B. *False.*

5- Again all of the following are criteria of a substance used for GFR measurement, except?

- A. *Should not be secreted by the tubular cells.*
- B. *Should not be reabsorbing by the tubular cells.*
- C. *Should not be toxic.*
- D. *Should not be metabolized.*
- E. *Should be easily measurable.*

6- Once the plasma concentration of glucose rises above about 200 mg/100 ml, increasing the filtered load to about 250 mg/min, that's indicate?

- A. All nephrons have reached their maximal capacity to reabsorb glucose.
- B. A small amount of glucose begins to appear in the urine.
- C. Not all nephrons have the same transport maximum for glucose.
- D. Filtered load of glucose is completely reabsorbed.
- E. None of the above.

7- The glucose started to appear in the urine before the transport maximum is reached?

- A. All nephrons have reached their maximal capacity to reabsorb glucose.
- B. A small amount of glucose begins to appear in the urine.
- C. Not all nephrons have the same transport maximum for glucose.
- D. Filtered load of glucose is completely reabsorbed.
- E. None of the above.

8- When the overall transport maximum for the kidneys, reach it's normal, means?

- A. All nephrons have reached their maximal capacity to reabsorb glucose.
- B. A small amount of glucose begins to appear in the urine.
- C. Not all nephrons have the same transport maximum for glucose.
- D. Filtered load of glucose is completely reabsorbed.
- E. None of the above.

9- If the plasma concentration of glucose become below 200 mg/100 ml, the filtered load reminds the same "zero", that's indicate?

- A. All nephrons have reached their maximal capacity to reabsorb glucose.
- B. A small amount of glucose begins to appear in the urine.
- C. Not all nephrons have the same transport maximum for glucose.
- D. Filtered load of glucose is completely reabsorbed.
- E. None of the above.

10- One urine sample is enough for UCT?

- A. True.
- B. False.

Answers:

Q1: C

Q2: C

Q3: D

Q4: B

Q5: D

Q6: B

Q7: C

Q8: A

Q9: D

Q10: B