



Renal Transport Process I

Tubular Reabsorption

1) The amount or concentration of substance at which the kidney can reabsorb or secrete this substance .

a. Carrier Mediated Transport System

b. Renal Threshold

2) Which substance will be **completely** reabsorbed after filtration ?

a. Phosphate

b. K⁺

c. Amino Acids

d. Inulin

3) The common trait between Glucose, Sulphate and Phosphate is ..

a. all of them are high threshold substances

b. all of them are low threshold substances

c. all of them are reabsorbed by carriers

d. Non

4) If T_m is exceeded, then the excess substrate will be :

a. reabsorbed

b. secreted

c. excreted

d. filtered

5) Presence of glucose in the urine indicate that :

- a. *The plasma concentration of glucose is between 120-200 mg/100 ml*
- b. *The glucose is not reabsorbed in the renal tubules*
- c. *The plasma concentration of the glucose is more than 200 mg/100 ml*
- d. *Non, it's normal to be excreted if the concentration in the urine is less than 120 mg/100 ml*

6) The glucose Transport Maximum is :

- a. *80 mg/min*
- b. *120 mg/min*
- c. *200 mg/min*
- d. *375 mg/min*

7) Glucose could appear in the urine before reaching the Transport Maximum .

- a. *T*
- b. *F*

8) Tow substances enter the cell at the same time facilitated by a carrier

- a. *NHE*
- b. *Symporters*

9) The reabsorption in the proximal tubule is :

- a. Isosmotic*
- b. hypotonic*
- c. hypertonic*

10) The greatest amount of hydrogen ion secreted by the proximal tubule is associated with :

- a) excretion of potassium ion*
- b) excretion of hydrogen ion*
- c) reabsorption of calcium ion*
- d) reabsorption of bicarbonate ion*

11) Most of the glucose that is filtered through the undergoes reabsorption in the :

- a) proximal tubule*
- b) descending limb of the loop of Henle*
- c) ascending limb of the loop of Henle*
- d) distal tubule*

12) Which of the following substances will be more concentrated at the end of the proximal tubule than at the beginning of the proximal tubule ?

a) *glucose*

b) *creatinine*

c) *sodium*

d) *bicarbonate*

13) Select the correct answer about proximal tubules :

a) *K⁺ is secreted in exchange with the Na⁺ which is reabsorbed under the effect of aldosterone*

b) *glucose , amino acids & proteins are completely reabsorbed*

c) *only 10% of the filtered water is reabsorbed*

d) *parathormone increase phosphate reabsorption*

14) The primary renal site for the secretion of organic ions e.g urate, creatinine is :

a) *proximal tubule*

b) *loop of Henle*

c) *distal tubule*

d) *collecting duct*

15) Reabsorption of Na⁺ :

- a) takes place in association with CL⁻ & HCO₃⁻
- b) occurs only in PT
- c) is under control of parathormone hormone
- d) is a passive process

16) About the proximal convoluted tubules , all are true except :

- a) reabsorb most of Na⁺ ions in glomerular filtrate
- b) reabsorb most of Cl⁻ ions in glomerular filtrate
- c) reabsorb most of K⁺ ions in glomerular filtrate
- contains JGCs which secrete renin

1	2	3	4	5	6	7	8	9	10	11	12
b	c	c	c	c	d	a	b	a	d	a	c

13	14	15	16
b	a	a	d