

Urinary: Clearance and Reabsorption

Use data below to answer questions:

Renal inulin clearance:	120mL / min.
[inulin] arterial plasma:	0.5 mg / mL
Hematocrit:	0.45
Renal PAH clearance:	650 mL / min.
[glucose] arterial plasma:	0.8 mg / mL
[glucose] urine:	0.00 mg / mL
Rate of urine formation:	0.6 mL / min.

Estimate the following:

1. Plasma flow rate in the afferent arterioles: _____
2. Blood flow in the afferent arterioles: _____
3. Plasma flow rate in the efferent arterioles: _____
4. Blood flow in the efferent arterioles: _____
5. Plasma flow rate in the renal veins: _____
6. Rate of glucose reabsorption: _____
7. Concentration of inulin in urine: _____
8. Inulin excretion rate: _____
9. Glomerular filtration rate: _____