Medical Physiology Renal Function Overview- Renal Handling of Increased Dietary Salt Intake

The following steps reproduce in HUMAN an experiment close to that shown in the course text Figure 26-1 ("Effects of increasing Na intake ..."). Be *careful* to follow each step *exactly* as shown as this protocol takes advantage of some 'hidden' aspects of HUMAN 9 plotting.

The protocol here is basically 4 days control->8 days on 5 times increased Na->4 days recovery.

4 days control - Set up your screen as follows and run:

View Output: DIETNA CALL EXNA CALL UNA CALL ECFV CALL	EXER
as: graph t graph t text t graph t text	text
Experiment Controls	Help
Change Variable Enter New Value Info on Variable	Help info on: EXUR
Choose 🗘	Tips: How Do I?
Choose 🔹	View
	Variable Value: ECFV + Patient Charts or Lab tests:
Run Experiment: for 4d minutes at 1d minute intervals.	Urine Specimen
for _{4d} minutes at _{1d} minute intervals.	
Logout Prefs. Go Start Over Expt: Save Get	Graph Style Size: 600
	Normalized, one graph

8 days of salt loading via DIETNA. Set up your screen as follows and run:

View Output: DIETNA + EXNA + UNA + ECFV + EXNA + UNA + graph + graph + text + graph +			
Experiment Controls	;		Help
Change Variable	Enter New Value	Info on Variable	Help info on: Choose 🗘 Tips: How Do I?
Choose • Run Experiment: for _{8d} minutes	at 1d minute inte	ervals.	View Variable Value: Choose Patient Charts or Lab tests: Urine Specimen
Logout Prefs.	Go Start Over	Expt: <u>Save</u> <u>Get</u>	Graph Style Size: 600 + Normalized, one graph

<u>4 days recovery</u>. Set up your screen as follows and run:

View Output: DIETNA * EXNA * UNA * ECFV * extext * graph * text * graph *		
Experiment Controls		Help
Change Variable Enter New Value DIETNA I80 Choose	Info on Variable 180 mEq/Day	Help info on: Choose Tips: How Do I? View
Run Experiment: for 4d minutes at 1d minute inte	Variable Value: Choose Patient Charts or Lab tests: Urine Specimen	
Logout Prefs. Go Start Over	Expt: <u>Save</u> <u>Get</u>	Graph Style Size: 600 Normalized, one graph

Note that in addition to the kind of information you have in the text

1) there are other renal variables here. How do they behave.? Can you explain their behavior?

2) there is a <u>urine specimen</u> at the end of each period. How many of the variables/responses in that Chart can you explain based on your reading thus far?