Case 3 – renal reconciliation and dosing in renal impairment

Tutor notes

Mrs SR

65 years old

PC Leg ulcer unresponsive to topical treatment

PMH HT & CKD (End stage) on Haemodialysis

Ulcer swab Grew pseudomonas

**Drug History from patient:**

Perindopril 4mg daily

Calcium Carbonate 1 midday

Omeprazole 20mg od

Ferrous sulphate 200mg od

Alphacalcidol 0.25 micograms od

Two injections on dialysis

Inpatient Rx

As above except alfacalcidol is charted as 0.25 micrograms (patient says takes 1 onealfa – doctor doesn’t realise two strenths) and ascorbic acid 50mg od has been added (theoretically improves iron absorption)

Eryhtropoeitin and iron charted on dialysis chart not on regular drug chart!

Ciprofloxacin IV 400mg BD (400mls extra Fluid) for 2 days then 500mg BD orally

**Medicines on the ward**

Perindopril 4mg daily

Calcium Carbonate 1 midday

Omeprazole 20mg od

Ferrous sulphate 200mg od

Ascorbic Acid 50mg od

Alphacalcidol 1micrograms od

Ciprofloxacin IV 400mg BD for 2 days then 500mg BD orally

**Dialysis chart**

Erythropoeitin (EPO)4000 units weekly with dialysis

Iron Polymaltose 50mg weekly with dialysis

Looking for discussion on

Age 65, Weight 59Kg

Cr = 390

CrCl = 11.8ml/min (this needs to be calculated)

Need to check sensitivity report (only sensitive to cipro)

Antibiotic doses should be once a day, cipro well absorbed orally, better to be on tablets as using (200ml or 400 ml if Dr does not change dose -of 1000ml daily fluid allowance)

Dialysis dose after (removed by HD)

Risk of seizures if dose too high

**Student Information**

Mrs SR

65 years old

PC Leg ulcer unresponsive to topical treatment

PMH HT & CKD (End stage) on Haemodialysis with a 1000mL fluid allowance (restriction)

**Medicines on the ward**

Perindopril 4mg daily

Calcium Carbonate 1 midday

Omeprazole 20mg od

Ferrous sulphate 200mg od

Ascorbic Acid 50mg od

Alphacalcidol 1 micrograms od

Ciprofloxacin IV 400mg BD for 2 days then 500mg BD orally

**Dialysis chart**

Erythropoeitin (EPO)4000 units weekly with dialysis

Iron Polymaltose 50mg weekly with dialysis

**Additional Information**

Weight 59kg

Serum Cr 390 micromol/L

All other electrolytes in normal range

Wound swap grew pseudomonas

Sensitivity Report:

Meropenen R

Cipro S

Co-amoxiclav R

Gentamicin R

**Drug History from patient:**

Perindopril 4mg daily

Calcium Carbonate 1 midday

Omeprazole 20mg od

Ferrous sulphate 200mg od

Alphacalcidol 0.25 micograms od

Two injections on dialysis