Patient Profile

Patient background and medication list

Reason for selecting profile

Heart Failure is a topic we have studied this semester and I would like to apply my learning to this area. I found this particular patient interesting due to his recent diagnosis. His condition has rapidly progressed and he is now being assessed for a heart transplant.

Patient's details		
Initials AW	Age 55 years	Gender Male
Weight 76.5kg on admission 59.2kg on discharge	Height 1.8m	<i>BMI</i> 18.2 kg/m ² (based on discharge weight)

Patient history

Presenting complaint

Admitted from HF clinic with increased SOB and oedema

Past Medical History

Newly diagnosed severe LVSD (August 2015), Osteoarthritis, Vitamin D Deficiency, T2DM

Social History

Lives with wife

Manages own medication

Smoker (<10/day)

Occasional Alcohol

Impression/Diagnosis

Decompensated heart failure

Plan IV Diuretics	
Fluid restriction 1.5L	
Daily weights and U&Es	
Commence spironolactone	
Up-titrate ACE inhibitor and beta blocker	
Review for transplant work up	
Medication list	
Treatment	Indication and evidence
Bisoprolol 5mg OD	Beta blocker licenced for use in heart failure. As recommended by NICE and ESC as first line for
	management of chronic heart failure (1,2)
	(Recently increased form 3.75mg OD 3/11/15)
Furosemide 80mg BD	Loop diuretic for relief of congestive symptoms and fluid overload as recommended by NICE and ESC (1,2)
	(Recently increased from 40mg BD 3/11/15)
Ramipril 5mg OD	ACE inhibitor licenced for use in heart failure. As recommended by NICE and ESC as first line for
	management of chronic heart failure (1,2)
	(Recently increased from 3.75mg OD 3/11/15)
Metformin 500mg BD	An option for first line therapy of T2DM in patients who are not overweight as recommended by NICE (3) NB. Contraindicated in acute cardiac failure (see drug related problems)
	Vitamin D3 replacement
Recent Acute:	NB. Loading regimen is not as recommended by GMMMG or National Osteoporotic society who
Vitamin D3 40,000units daily for 10/7 then	recommend a loading regimen to give 300,000 IU followed by maintenance one month after loading if
20,000units weekly (26/6/15)	indicated (4)(5)
	(Patient states he is no longer taking – see later discussion)
OTC:	NSAID for acute pain as per WHO pain ladder (6)
Occasional ibuprofen for headaches	(NB. Contraindicated in severe heart failure (7) – see later discussion)
Drug sensitivities	
NKDA (confirmed with patient and GP)	

Medication changes

		Dose &			Stop
Treatment	Route	frequency	Indication	Start date	date .
			Loop diuretic for fluid overload		
			IV administration increases vasodilation as well as increasing fluid loss		
Furosemide	IV	240mg/24hours	therefore helping with acute symptoms (2)	18/11/15	22/11/15
Bisoprolol	Po	5mg OD	As above	Pre-admission	23/11/15
Ramipril	Po	5mg OD	As above	Pre-admission	24/11/15
Metformin	Po	500mg BD	As above	Pre-admission	Cont.
		_	Aldosterone antagonist licenced for use in heart failure (8)		
			Recommended by NICE and ESC as add on therapy when treatment with ACE		
Spironolactone	Po	25mg OD	inhibitor and beta blocker is insufficient (1,2)	18/11/15	23/11/15
			LMWH for VTE prophylaxis as per NICE and trust guidelines for medical		
Enoxaparin	SC	40mg OD	patients (9)	18/11/15	30/11/15
			Nicotine replacement. NICE recommend the promotion of licenced nicotine		
Nicotine 14mg			replacement therapies to support abstinence in all patients in a secondary care		
patch	Тор	14mg OD	setting (10)	19/11/15	Cont.
Furosemide	IV	120mg/24hours	Loop diuretic for fluid overload as above (reduced dose – see later)	22/11/15	27/11/15
Sando K	Po	2 tablets TDS	Potassium supplementation (see later)	22/11/15	27/11/15
Bisoprolol	Po	7.5mg OD	As above (increased dose – see later)	23/11/15	Cont.
Spironolactone	Po	50mg OD	As above (increased dose – see later)	23/11/15	Cont.
Ramipril	Po	6.25mg OD	As above (increased dose – see later)	24/11/15	Cont.
Fortisip Compact			Nutritional supplementation as recommended by dieticians due to low weight		
Protein	Po	125mL TDS	and MUST score 1. To be continued on discharge	27/11/15	Cont.
			Loop Diuretic (oral route) for fluid overload.		
			Equivalent dose to admission dose of furosemide although may have better		
			absorption in an oedematous gut. Diuresis is achieved over a shorter time		
			period compared with furosemide (11). To be stabilised on oral diuretic dose		
Bumetanide	Po	2mg BD	for 48 hours prior to discharge as per ESC recommendations (2)	27/11/15	Cont.

Monitoring plan

Parameter	Justification	Frequency	Result/s or plan
BP & JVP	To facilitate titration of beta blocker and ACE inhibitor. As an indicator of fluid status	Minimum Daily (BP 4 hourly in practice as per ward observations policy)	O/A BP 110/70 mmHg JVP not recorded in notes BP steadily reduced with up titration of beta blocker and Ramipril (see progress notes) Patient asymptomatic of reduced BP – nil action required BP 96/61 mmHg on discharge
HR	To facilitate titration of beta blocker As an indicator of fluid status	Minimum daily (4 hourly in practice as per ward observations policy)	O/A HR 70bpm HR steady with up titration of beta blocker (see progress notes) – nil action required HR stable on discharge (71bpm) Patient counselled on possible symptoms of reduced heart rate, expected resolution with time and to see GP if problematic
Weight	To monitor response to diuretics and to indicate if dose increases/decreases indicated. Aim for a weight loss of approx. 1kg/day to avoid over-diuresis and excessive strain on the kidneys (2) Also as an indicator of nutritional status as indicated by NICE (12)	Daily	Date 18/11 19/11 20/11 21/11 Weight (kg) 76.5 75.6 73.9 72.2 Date 22/11 23/11 24/11 25/11 Weight (kg) 68.9 66.5 65.4 62.7 Date 26/11 27/11 28/11 29/11 Weight (kg) 62.2 61.1 60.2 59.5 Over-diuresis initially – discussed with team and diuretic dose reduced (See progress notes) On discharge (30/11): 59.2kg
Fluid Balance	To assess response to diuretics and monitor hydration status. Patient commenced on fluid restriction on admission – need to carefully monitor input and output. Aiming for a negative balance	Daily	Patient engaged at recording all inputs. Daily input/output sheet completed by nursing staff and patient. Negative fluid status recorded. (Key results noted in progress notes)
ABGs	Need to monitor oxygen saturation to ensure patient does not become hypoxic in view of acute heart failure	On admission then as indicated by results	ABGs normal. Patient not displaying signs of hypoxia. To repeat if indicated during admission otherwise nil action required.
Blood glucose & HbA1c	Patient has T2DM. Glucose can increase due to change in diet as inpatient and acute illness HbA1C as an indicator of long term glucose control	BMs Twice daily; HbA1C one off	Blood glucose and HbA1C within range.

Monitoring plan and outcomes cont.

Parameter	Justification	Frequency	Result/s or pla	an							
U & Es	Especially creatinine and urea as an	Daily (and									
	indicator for dehydration and over-	regularly on		Range	18/11	20/11	21/11	22/11	24/11	27/11	29/11
	diuresis and to monitor renal response to	discharge)	Creatinine	60-	104	109	104	85	90	84	71
	treatment. Further, NICE indicate		(µmol/L)	120							
	monitoring of these parameters with		Urea	2.5-	9.4	8.7	7.4	5.0	5.2	3.9	6.2
	each dose increase of ACE inhibitor (1).		(mmol/L)	7.8							
	Loss of electrolytes can be profound with		Potassium	3.5-	4.1	3.1	3.2	3.3	4.0	3.8	3.7
	IV diuretic use. Deranged electrolytes		(mmol/L)	5.3							
	can increase risk of arrhythmias		eGFR	>90	72	64	72	81	76	82	>90
	(especially potassium) and supplementation may be required.		(mL/min)								
	Maintain potassium in the range of 4.0-		Urea raised in								
	5.0mmol/L (as per SIGN recommendations) (13) NB. This differs from local reference range (see right).		Potassium lov			s – aiscu	ssed wit	n team	(see pro	gress no	tes).
			Commenced			:			d: l	OD 4-	:
			Spironolacton potassium on								
			further supple								101
			Creatinine, ur								ed
Leg oedema &	Symptoms of fluid overload; to monitor	Daily							ission. SOB resolved within		
SOB	response to diuretics		48 hours. Oed								
	•		oedema rema								
			diuretic doses	accordir	ngly.					•	
Pain	Patient occasionally uses ibuprofen PRN	Daily	Patient did no	t report a	ny pain	during a	dmissio	n. Coun	selled or	dischar	ge to
	for headaches. Advised to stop. Need to		use paracetamol first line if required								
	ensure monitor pain management and to										
	review for paracetamol as first line if										
	required										
FBC	To assess suitability for VTE prophylaxis	On admission			ange			24/11		30/11	
	and monitor for HIT	then every 2-	Hb g/L		5-165	128		135	132	123	
	Anaemia can aggravate HF and would	3 days during admission	Platelets x1	0"/L 15	0-400	157	146	147	150	153	
	require correction pre-transplant (2) Nb. ESC guidelines state that Hb	aumission	Hb on the low	or and of	normal	ac nor E	عربان	dolinos d	and at tin	ace holes	A./
	130g/L in men should be treated.										
	1309/L III men snould be treated.		threshold for treatment. GP to monitor in community and consider iron studies and treatment with oral iron if indicated.						luules		

Monitoring plan and outcomes cont.

Additional investigations: BNP, LTS, TFTS, PFTS	BNP as a measure of myocardial damage and prognosis, LFTs and TFTs to detect any underlying cause of HF/ alternative diagnosis. Thyroid disease can also aggravate HF (2)	One-off on admission	BNP3920 (poor prognostic indicator) LFTs, TFTs, PFTs - no abnormalities detected To continue assessment for heart transplant
ECG	To identify any conduction abnormalities that may aggravate or be responsible for HF	On admission	Nil abnormalities detected – nil action required
Urinanalysis	To identify proteinurea (in view of diabetes and as part of HF assessment)	One-off on admission	Results were normal (Urine albumin <5mg/L). Nil action required.
Exercise tolerance	To assist severity grading for HF and monitor impact on daily living. This will aid any decisions on urgency of stepping up treatment.	In outpatient setting	To be undertaken in outpatient setting. Results not yet recorded
Echo and CMR	To assess cardiac structure and function to aid decisions on management of HF	One off as inpatient	LVEF: 11% - For heart transplant
Imaging: CXR CT thorax & Abdo, USS abdo	To identify pulmonary oedema or a respiratory cause for SOB To assess for any other co-morbidities and any signs of liver disease (part of transplant workup)	One off as inpatient	Hepatic veins prominent due to decompensated HF; Otherwise normal No contraindication to transplantation
Mood	Any patient with a chronic health condition should be monitored for signs of depression (14) This patient has had a very recent diagnosis with rapidly progressing disease.	During admission and on discharge	Patient appeared in good spirits. Patient counselled about support available from heart failure team as outpatient. Provided with leaflets.

Profile number: 3

Progress notes and drug related problems Analysis of Drug Related Problems

Drug related problem	Assessment	Priority (high / medium /low)	Action taken/outcome
Risk of over-diuresis with high dose diuretics	Aiming for 1kg/day weight loss as per ESC guidelines (2) Monitor daily weights and fluid balance	High	Daily weights and fluid input/output recorded (see above monitoring) Over-diuresis with initial furosemide dose — discussed with team and dose reduced 22/11. Weight loss remained at upper end of target however renal function remained stable. Team decision to continue to drive diuresis due to excessive fluid overload.
Risk of hyperkalaemia with ramipril, spironolactone and sando K	Daily monitoring of potassium	High	Sando K discontinued when potassium in range Potassium remained normal-low – nil action required. GP/HF clinic to monitor potassium and consider re-starting supplementation if required
Smoking cessation as recommended by SIGN, ESC and NICE for HF patients (1,2,13) Patients should be offered pharmacotherapy to support smoking cessation as per NICE (10)	Patient is a light smoker. He has already reduced significantly since his diagnosis of HF. Currently smokes 7-8/day. Suppy of NRT may help reduce cravings and support smoking cessation. Discuss use of NRT with patient and refer to smoking cessation	High	Counselled patient and discussed use of NRT (see progress notes). Declined use of a quick acting product. To trial patches. Discussed with team – commenced on nicotine patch (14mg/step 2 as per smoking history) (15). Referred to smoking cessation as inpatient and GP to continue support in community on discharge
Patient is slightly underweight (BMI 18.2kg/m²) Optimal nutritional status is important as part of the transplant work up	Referred to dieticians as inpatient	High	Provided diet and lifestyle advice to maintain a healthy weight. Also provided exercise advice in line with HF guidelines (2) Commenced on nutritional supplements – GP to refer to community dieticians to continue on discharge Referred to cardiac rehabilitation (will cover nutrition and exercise)
Check compliance with diuretics / other medication (Recent diagnosis, previously few regular medications)	Discuss medication with patient and family	Medium	Patient counselled with wife present. He is managing well with his medication. I signposted him to his community pharmacy for medication reviews if he feels this would be of benefit at home.

Analysis of Drug Related Problems Cont.						
Drug related problem	Assessment	Priority (high / medium /low)	Action taken/outcome			
NSAID use may contribute to renal impairment (especially in combination with ACE inhibitor & diuretics)	Review if NSAID use can be avoided. Explore indication. If required to continue increase monitoring of renal function and for regular review of ongoing need	Medium	Patient using occasionally for headaches. PMH includes OA however patient says rarely requires analgesia. Counselled patient. Advised to use paracetamol first line for self-management of acute pain. Patient is happy with this and was previously unaware of the risks with ibuprofen or other NSAIDS.			
Metformin related problems: Metformin not recommended in diseases that cause tissue hypoxia incl. HF as per licence Metformin can further contribute to weight loss (patient is already slightly underweight) Metformin in combination with an ACE inhibitor pre-admission can further reduce plasma glucose (as per SPC) (16) Patient takes metformin morning and night	Good BM control is essential for the management of his T2DM and prevention of complications but also as part of a transplant workup Use of metformin in patients with HF without significant renal impairment is accepted practice and considered safe (2) Monitor renal function, glucose control and weight loss (see monitoring) Council patient that metformin should be taken with meals to reduce GI effects (GI upset could further contribute to dehydration along with diuretics)	Medium	Renal function stable throughout admission – appropriate to continue Patient counselled on timings of metformin. He said he had difficulty remembering with his evening meal – I suggested keeping a small supply in the kitchen to help him remember when he is preparing his meals. He said he would try this as previously did not understand the importance of taking with food. Discussed monitoring glucose either with GP or at home. He has a home BM meter which he does like to use as he feels it increases his compliance. Advised to continue to use and discuss with GP if BMs consistently out of range. Will require discontinuing 48 priors prior to transplant surgery (to be reviewed at a future date in pre-op once transplant confirmed)			
Risk of uncorrected vitamin D deficiency Prescribed vitamin D treatment by GP. Patient states no longer taking. GP unable to confirm intended course length. Patient at increased risk due to dark skin colour as noted by National Osteoporosis Society (4).	Vitamin D status should be checked to assess need for further treatment and/or maintenance	Low	Unfortunately levels not taken as inpatient. Appropriate to manage in community as not related to acute admission. NB. July 2015: 25-OH-VitD2 <10nmol/L 25-OH-VitD3 <15nmol/L Above results consistent with deficiency. Treatment with colecalciferol commenced however unknown if completed and unable to assess normalisation of vitamin D on this admission. GP to review in community (see discharge)			

Progress notes

Date	Notes
18/11/15	Patient admitted from HF clinic with worsening exercise tolerance, SOB and bilateral pitting oedema to the upper thigh. NYHA class III. Mild orthopnoea
	Commenced on IV diuretics and Po spironolactone
	Fluid Restricted
	Plan as above
19/11/15	Weight loss 1kg. To continue IV diuretics and current management
	MR completed by pharmacy. Patient questioned on smoking – he currently smokes 7-8/day. NICE recommend the use of combination therapy with a quick acting product such as a spray or inhalator and a patch (10) Discussed the use of NRT with the patient and the benefits of smoking cessation. Patient is keen to stop smoking completely in view of recent diagnosis and prognosis. He understands the benefits of stopping smoking. He would like to try using a patch however at this stage he declined the use of an inhalator/gum/spray but will consider again when he is back home if he is struggling with quitting. Discussed with team and patch prescribed in line with current smoking status (Step 2) (see above). Referred to smoking cessation.
	When questioned on OTC products patient states he occasionally uses ibuprofen for headaches (rarely for OA). Discussed the risks of ibuprofen in heart failure and the risk of worsening renal function along with ramipril and diuretics. Advised paracetamol as an alternative for occasional use and to see GP if he needs stronger analgesia.
	Discussed timings of metformin administration (see above). Advised patient that it is best to take with food.
20/11/15	Weight 73.9kg
	Continue current management
	BNP 3920 (poor prognostic indicator)
	Begin transplant work up
22/11/15	Diurising well. Weight: 68.9kg, Output 5780mL/24 hours
	Total weight loss since admission: 7.6kg (over 4 days)
	Over diuresis however still significant oedema – diuretic dose reduced to 120mg/24 hours
	Potassium low (3.2mmol/L) – discussed with team (aiming for 4-5mmol/L) - for repeat U & Es; Commenced on Sando K for oral supplementation
	Eating and feeling well

Progress notes Cont.

23/11/15	Weight 66.5kg
	Potassium remains low (3.3) – continue Sando K
	Creatinine stable
	BP 107/65mmHg (non-symptomatic) HR 70bpm
	Increase spironolactone to 50mg OD
	Increase beta blocker by 2.5mg to 7.5mg OD and monitor response of BP and HR
	Complete transplant workup including arranging CMR scan, dental review, PFTs, US abdomen, LFTs
24/11	Weight 65.4kg
	Continuing to lose weight, 1kg weight loss from yesterday (in line with target daily weight loss)
	Still significant fluid in lower limbs
	RHC to measure heart pressures
	LVEF 11%
	BP 101/60mmHg HR 69bpm; U&Es stable
	Ramipril increased to 6.25mg OD
26/11	Weight 62.2kg
	BP 91/58mmHg HR 68bpm
	Not for further titration of ACE inhibitor or beta blocker at this stage
	Likely some residual pedal oedema
	LFTs and US liver/abdomen ok
27/11	Breathing and peripheral oedema improved; Small amount of pitting in feet only
	Patient mobilising and feeling well
	BP 96/61mmHg HR 71bpm RR 14rpm
	Potassium normalised – Sando K discontinued
	Dietician review – commenced on fortisip compact protein TDS due to MUST score 1 and for continuation of supply on discharge (5/7)
	For Po diuretics. IV furosemide discontinued. Commenced on Po bumetanide (N.B ESC recommend patients are stabilised on an oral diuretic regimen for at least 48 hours prior to discharge after an admission due to heart failure (2)
	Po Furosemide not to be restarted (came in on)
30/11/	Discharge counselling – smoking, lifestyle (diet and exercise), diabetes control, diuretics (see below)
	Patient discharged
	For Heart failure clinic follow up in 2/52
	Transplant work up to continue as outpatient

Discharge / ongoing planning and follow up

Discharge requirement	Action taken / forward communication
	GP to repeat vitamin D level and re-treat or initiate maintenance if indicated in line
Vitamin D (see above for justification)	with GMMMG (5)
Patients with heart failure should be offered annual influenza and one—off	Discussed with patient (not yet had influenza vaccine) – GP to review in
pneumococcal vaccinations as recommended by NICE (1)	community to give influenza vaccine
Advice on regular physical activity	Counselled on discharge and referred for cardiac rehabilitation
	Provided with advice from HF nurses and pharmacist about regulating salt intake
	and to avoid "low salt" substitutes which can have a high potassium content
	(increased risk of hyperkalaemia with ramipril and spironolactone).
	Commenced on nutritional supplements as inpatient. Dieticians to organise
	ongoing follow up and to communicate with GP regarding specific dietary needs
Advice on nutrition and diet	and monitoring.
	Patient counselled about
	-how to adjust timings of diuretics to fit in with daily tasks
	-holding diuretics in the event of a dehydrating illness such as severe N&V and to
	seek medical attention to avoid excessive dehydration
Advise on value dividation	Patient also counselled by HF nurses on reducing diuretics at home if indicated,
Advice on using diuretics	although at present to continue on same dose until reviewed in clinic
Class manifesing of DD and LID in community & titration of ACE inhibitar and	GP to review within a week of discharge (and regularly thereafter). GP to monitor
Close monitoring of BP and HR in community & titration of ACE inhibitor and	HR, BP and U&Es (in view of recently increased bisoprolol and ramipril)
beta blocker to maximum tolerated doses Manitoring of LISEs in community (in view of increased diviration and titration	HF clinic to review at outpatient appointment (to be seen within 2/52 of discharge
Monitoring of U&Es in community (in view of increased diuretics and titration of ramipril). Need to avoid over diuresis which could potentiate renal	as per NICE quality standards) (17) ACE inhibitor and beta blocker should be titrated to maximum tolerated doses as
impairment and cause hypotension	per the BNF (18)
impairment and cause hypotension	Patient advised to weigh himself daily at the same time each day. Patient advised
	to report to GP or contact HF nurses if he gains more than 1.5-2kg in 2 days (as
Patient to monitor own weight regularly	per SIGN and ESC recommendations (13) (2)
i attent to monitor own weight regularly	per order and Loo recommendations (13) (2)

Discharge / ongoing planning and follow up cont.

Discharge requirement	Action taken / forward communication
Monitor for side effects of newly started spironolactone such as gynaecomastia (18)	Patient informed of possible side effects and advised to discuss with his GP if become problematic. GP and HF team to monitor at regular reviews. Review to eplerenone if problematic side effects specific to spironolactone (13)
Signposting to support groups and further information Ongoing support for smoking cessation:	Patient informed of information on the British Heart Foundation website and directed to patient information leaflets on the website Patient provided with Medicines Information advice line on discharge. Supplied with NRT on discharge and GP/smoking cessation team to continue support in community.
Patient should have at least 7 days supply of NRT and be offered face to face support for at least 4/52 post discharge (10)	
Monitor Hb and review for further investigations +/- treatment if consistently <130g/L (see above re justification)	GP to monitor and to undertake iron studies if indicated to assess if there is a need for oral iron. Monitoring of tolerability and response to oral iron will be required

Continuing Professional Development

Learning plan and record	
Learning plan and record	
Learning need identified	Action taken
I would like to understand more about the requirements for transplant work up. This includes the decision criteria involved in assessing the suitability of patients for heart transplant and optimisation of co-morbidities such as diabetes	Discuss with cardiology pharmacist and transplant liaison team. Next time I am managing a patient who is being considered for a transplant I will discuss the case with the HF nurses as they regularly visit the patients on the ward.
Use of medication in heart failure	Read directed reading as part of diploma learning Discussed the use of diuretics with specialist pharmacist on heart failure study day who explained bumetanide is often chosen to replace furosemide in very oedematous patients as it may have a better absorption profile, as was the case for this patient. Attended heart failure medication talk and discussed with patients their experiences of heart failure and managing symptoms with medication. Discuss interesting patients with HF specialist nurses Completed CPD cycle on medication use in heart failure in the acute setting & associated patient counselling.
I was previously unaware of the contraindication for metformin in cardiac failure and would like to understand more about the risk vs benefit of using this medication in this patient group	Discuss with diabetes nurses Discuss with cardiology and diabetes pharmacists After this patient's admission I discussed this with the diabetes specialist on the study day for the diploma. I have learnt that it is only contraindicated in the acute phase of heart failure. It would normally be held while actively treating fluid overload to reduce additional load on the kidneys if you were concerned about renal function. I have since completed a CPD cycle and been able to apply this learning to the care of other heart failure patients and discussed this learning with my diploma tutor.
I would like to understand more about the communication between dieticians and the GP including how and when they write to the GP and what the GP is asked to do to support nutrition. I frequently have patients who are referred to the dieticians and commenced on nutritional supplements and it would be beneficial to understand their requirements post discharge so I can explain this to the patients when supplying their supplements with their TTO.	Discuss with ward dieticians and nutrition pharmacist

RPS Foundation Framework Mapping

Cluster 1 Patient and	Cluster 2 Professional Practice	Cluster 3 Personal Practice	Cluster 4 Management and
Pharmaceutical Care			Organisation
Standards met:	Standards met:	Standards met:	Standards met:
1.1 Patient Consultation	2.1 Professionalism	3.1 Gathering information	
1.2 Need for the Medicine	2.3 Effective Communication Skills	3.2 Knowledge	
1.4 Selection of the Medicine		3.3 Analysing	
1.5 Medicine Specific Issues		Information	
1.6 Medicines Information		3.4 Providing Information	
and Patient Education			
1.7 Monitoring Medicine			
Therapy			
1.9 Transfer of care			

Profile	number:	3
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Total / 40 First assessor's signature and comments A. Patient background and med list			-				planning and follow up	
A. Patient background and med list B. Progress notes and medication changes /5 /5 /5 /5 /5 /5 /5 /5 /5 /5 /5 /5 /5 /	Total / 40	75	/5	/5	/5	/5	/5	/5
background and med list notes and medication changes of DRPs drug usage planning and follow up	10tai / 40		. I				.	
A. Patient background and med list B. Progress notes and medication changes /5 /5 /5 /5 /5 /5 /5 /5 /5 /5 /5 /5 /5 /	First assessor's si	ignature and com	ments					
Total / 40	background and	notes and medication			E. Action plan		planning and	H. CPD
	/5	/5	/5	/5	/5	/5	/5	/5
Second assessor's signature and comments	Total / 40		<u> </u>			<u> </u>	<u> </u>	
	Second assessor's	's signature and c	comments					

References

- 1. National Institute for Health and Care Excellence (NICE). NICE Clinical Guidelines CG108: Chronic heart failure Management of chronic heart failure in adults in primary and secondary care. London; 2010;(August).
- 2. McMurray JJ V., Adamopoulos S, Anker SD, Auricchio A, Bohm M, Dickstein K, et al. ESC Guidelines for the diagnosis and treatment of acute and chronic heart failure 2012. Eur Heart J. 2012;33(14):1787–847.
- 3. National Institute for Health and Care Excellence (NICE). NICE Clinical Guidelines CG87: The management of type 2 diabetes. London; 2009;(May).
- 4. National Osteoporosis Society (NOS). Vitamin D and Bone Health: A Practical Clinical Guideline for patient management [Internet]. Bath; [cited 2015 Dec 5]. Available from: https://www.nos.org.uk/document.doc?id=1352
- 5. Greater Manchester Medicines Management Group GMMMG. Treatment of Vitamin D deficiency and Insufficiency in Adults [Internet]. Manchester; [cited 2015 Dec 5]. Available from: http://gmmmg.nhs.uk/docs/nts/NTS Vit D for Insufficiency & Deficiency.pdf#search="vitamin d"
- 6. World Health Organisation WHO. WHO | WHO's cancer pain ladder for adults. World Health Organization;
- 7. Intrapharm Laboratories Limited. Summary of Product Characteristics Ibuprofen 200mg Tablets [Internet]. [cited 2015 Dec 4]. Available from: https://www.medicines.org.uk/emc/medicine/26642
- 8. Kent Pharmaceuticals Ltd. Summary of Product Characteristics Spironolactone 25mg Tablets [Internet]. [cited 2015 Dec 4]. Available from: https://www.medicines.org.uk/emc/medicine/26247
- 9. National Institute for Health and Care Excellence (NICE). NICE Clinical Guidelines CG92 Venous thromboembolism in adults admitted to hospital: reducing the risk. London; 2010;(January):(last modified June 2015).
- 10. National Institute for Health and Care Excellence NICE. NICE Public Health Guideline PH48: Smoking cessation acute, maternity and mental health

services. London; 2013; (November).

- 11. The Renal Drug Database: Bumetanide [Internet]. [cited 2015 Dec 16]. Available from: http://renaldrugdatabase.com/monographs/bumetanide
- 12. National Institute for Health and Care Excellence (NICE). NICE Clinical Guidelines CG32 Nutrition Support for Adults; Oral Nutrition Support, Enteral Tube Feeding and Parenteral Nutrition Nutrition support in adults Oral nutrition support, enteral tube feeding and parenteral nutrition. London; 2006;(February).
- 13. Scottish Intercollegiate Guideline Network. Management of chronic heart failure. (SIGN Guideline No 95). Scottish Int Guidel Netw. Edinburgh; 2007;(February).
- 14. National Institute for Health and Care Excellence (NICE). NICE Clinical Guidelines CG91: Depression in adults with chronic physical health problems: treatment and management. London; 2009;(October).
- 15. GlaxoSmithKline Consumer Healthcare. Summary of Product Characteristics NiQuitin 14 mg transdermal patches [Internet]. [cited 2015 Dec 6]. Available from: http://www.medicines.org.uk/emc/medicine/13994
- 16. Aurobindo Pharma Milpharm Ltd. Summary of Product Characteristics Metformin 500mg tablets [Internet]. [cited 2015 Dec 6]. Available from: http://www.medicines.org.uk/emc/medicine/23244/SPC
- 17. National Institute for Health and Care Excellence NICE. NICE Quality Standard QS9: Chronic heart failure quality standard. London; 2011;(June).
- 18. British National Formulary (BNF) 70. London: BMJ Group and the Royal Pharmaceutical Society of Great Britain; 2015.

Profile number: 3

Assessor Feedback:

As ever, this is an excellent care plan. You comprehensively and systematically demonstrate your deep understanding of CCF as applied to your individual patient. This ability to analyse and synthesise information, and apply this in your clinical decisions, is sustained and exceptional.

Some areas were vague i.e. what exactly did you say or recommend? And your profile raised a few questions in my mind: should this patient not have been reviewed for statin therapy given T2DM and significant CCF? At least lipid profile? Could you appraise the use of spironolactone above eplerenone? Issues with beta blockers in diabetes? Did we titrate enough, how do we know? Shall we switch to an alternative antidiabetic - sulphonylurea or gliptin? BP was 96/61 at discharge - discuss? This chap is only 55; what potential issues can we foresee? Fluid restriction at home? Transfer of care info to GP?

Note drug names do not need capital letters mid-sentence.

Mapped well to the RPS Framework.

A Mawdsley

MARK = 38/40