

Case Based Learning



Year 3 Case-based Learning 2024-25

Case 2 Part 2

Facilitator Materials



Key Contributors:

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Case 2 Part 2 Facilitator Materials

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STUDENT MATERIALS

Patient background

James Booker is a 23-year-old man on a general medical ward. He was BIBA to ED unconscious and managed for an intentional mixed overdose of paracetamol and diazepam in HDU. He is now maintaining his own airway and has restarted his antiepileptic medication (levetiracetam). He has been stepped down to a medical ward for psychiatric assessment prior to discharge.

Medical ward round

nsert G.P.'s lame and ddress if not ncjuded on squest letter or dmission form	CLINICAL NOTES ENTER Full Name A Mr./s/Miss & B Address C Consultant & Ward/Clinic D Hospital No. E S.M. or W. F Date of Blirb G Occupation H In-Patient Admn Date C: 379 405 7365 EACH ENTRY TO BE DATED AND SIGNED Diagnosis
	B. Crusher WR P. tone (Cons Amn) B. Crushe (FYR Amn) FYR Med 10 11 22 22 YO Male Day 2 Post MOU 9MC 8213211 Pasacekul + Dialepus OD treated with NAC Lestated Antiepileptic Meds in MOU
ROYAL VICTORIA HOSPITAL BELFAST, BT12 6BA	today - Alex + Bright Orientated in time [person] Place Good Oral Intake, bounds Mouny normally Note Ute (Na 132) Note-Osmoralities Asymptomatic of Symptoms of hyponatiaenie O/E NEWS - O
	PS-Clear CUS 1+U+O Abod SN+ BSIZ Fluid Status - exam
Form No M 100 (R S 7)	Plan - Envolence Asymptonatic M.I.d hyponatraemin due to antiephophic Moducations - Continue with antiephotic Meds + ask GP to feel us In 2/52 - Medically fit for Medal Health assessmet B. Cruser & 80 first 22 & 821322

Text:

379 405 7365 BOOKER James, age 23

B Crusher FY2 Med

30/11/22 08.30 WR P. Toner (Cons AMU), B Crusher (FY2 AMU)

23 YO male D2 Post HDU

Paracetamol and diazepam OD

Treated with NAC

Restarted antiepileptics in HDU

Today – alert and bright

Orientated in time/person/place

Good oral intake, bowels moving normally

Note U&E (Na 132) Note – osmolalities

Asymptomatic of symptoms of hyponatraemia

O/E NEWS 0

RS – Clear CVS I + II + 0 Abd SNT BS normal

Fluid status:

Impression: Euvolaemic asymptomatic mild hyponatraemia due to antiepileptic medication

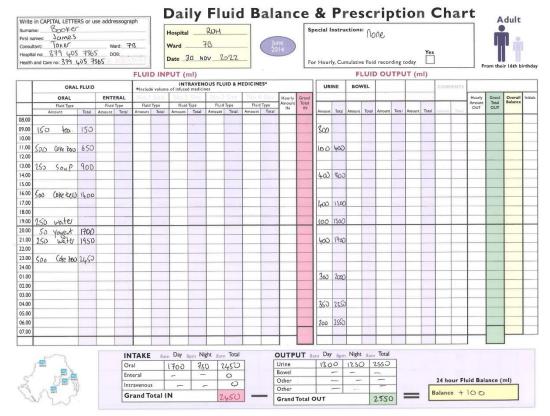
Plan: Continue with antiepileptic meds

GP to review U&Es in 2/52

Medically fit for health assessment

Signed B Crusher 30/11/22 821322

Fluid balance chart



Text:

379 405 7365 BOOKER James, age 23, ward 7B

Yesterday's date 29 Nov 2022

Grand total in 2475ml

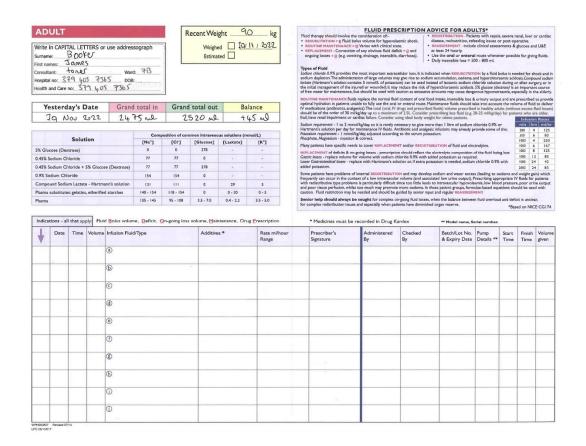
Grand total out 2520ml

Balance +45ml

Recent weight 90kg

Weighed 30/11/2022

Case 2 Part 2 Facilitator Materials



Hospital RVH, ward 7B, date 30 Nov 2022
Intake oral day 1700, night 750, total 2450
Output urine day 1300, night 1250, total 2550
Balance +100

Investigations

Blood work

379 405 7365 BOOKER James (Male/23 years)

Complete Blood Count

Number	1	Ref. Range (Units)
Collected	30-Nov	
	2022	
	06:00	
Signed	D	
Source	BHSCT	
HGB	119	115-165 (g/L)
HCT	0.45	0.37-0.47 (L/L)
WBC	9.4	4.0-10.0 (x 10 ⁹ /L)
PLT	199	150-450 (x 10 ⁹ /L)
RBC	5.2	3.8-5.8 (x 10 ¹² /L)
MCV	79	76-100 (fL)
MCHC	329	320-360 (g/L)
MCH	30	27-32 (pg)
NEUT	5.9	2.0-7.5 (x 10 ⁹ /L)
LYMPH	2.5	1.0-3.5 (x 10 ⁹ /L)
MONO	0.6	0.2-0.8 (x 10 ⁹ /L)
EOSIN	0.3	0.04-0.4 (x 10 ⁹ /L)
BASO	0.09	0.01-0.1 (x 10 ⁹ /L)

Electrolyte Profile

Number	1	Ref. Range (Units)
Collected	30-Nov	
	2022	
	06:00	
Signed	a CP	
Source	BHSCT	
Sodium	*132	136-145 (mmol/L)
Potassium	4.8	3.5-5.3 (mmol/L)
Chloride	*92	95-108 (mmol/L)
CO2	29	22-29 (mmol/L)
Urea	7.8	2.5-7.8 (mmol/L)
Creatinine	83	45-84 (μmol/L)
eGFR	>60	<60 (mL/min/1.73m²)

^{*} Denotes abnormal result

Liver Profile

Number	1	Ref. Range (Units)
Collected	30-Nov	
	2022	
	06:00	
Signed	D	
Source	BHSCT	
T. Bilirubin	11	<21 (µmol/L)
ALP	*131	30-130 (U/L)
AST	*39	<32 (U/L)
GGT	*43	6-42 (U/L)
ALT	*36	<33 (U/L)
Albumin	35	35-50 mg/L

CRP

Number	1	Ref. Range (Units)
Collected	30-Nov	
	2022	
	06:00	
Signed	D	
Source	BHSCT	
C reactive protein	*12	<5 (mg/L)
(CRP)		

Serum Osmolality

Number	1	Ref. Range (Units)
Collected	30-Nov	
	2022	
	06:00	
Signed	D	
Source	BHSCT	
Serum Osmolality	*272	275-295 (mOsmol/kg)

Urine Osmolality

Number	1	Ref. Range (Units)
Collected	30-Nov	
	2022	
	09:00	
Signed	D	
Source	BHSCT	
Urine Osmolality	315	(mOsmol/kg)

Urinary Sodium

Number	1	Ref. Range (Units)
Collected	30-Nov	
	2022	
	09:00	
Signed	₽ P	
Source	BHSCT	
Urinary Sodium	29	(mmol/L)

Psychiatry Liaison Review: PARIS record

Mr James Booker, age 23, HCN 379 405 7365

Date 30/11/22

Time 15.30

Medical entry by A Collins, CT3, Psych liaison

Reason for review

Referral received to review this 23 year old gentleman who presented to ED after an overdose of paracetamol and diazepam. Now medically fit for discharge.

History of presenting complaint

Mr Booker took a mixed overdose of paracetamol and diazepam (unsure of quantities) three days ago. This was a planned overdose and he had stockpiled medication for it. He had been drinking before taking the overdose. He took it when in the house alone with the intent of ending his life. Prior to taking the overdose he sent a farewell message to his mother who was working a night-shift. He did not want his partner to find him, so his last memory was wandering onto the street. He was found by a passer-by, who phoned 999 and arranged for an ambulance. He was brought to ED having been found unconscious by the paramedics and was treated in ICU.

Mr Booker states there were a number of triggers for the overdose, namely a feeling of hopelessness and frustration with how his life has turned out since he had to drop out of university last year. He had a recent relationship breakup but is still living with his ex-partner and 1 year old child.

He initially was disappointed to wake up in hospital but now is more ambivalent and wonders if this is a second chance.

He has previously been diagnosed with depression by his GP and was prescribed citalopram, however, he felt it wasn't working so discontinued it himself after a few days.

Past Psychiatric History

Depression – on antidepressants from GP (Citalopram) – poor adherence

No previous suicide attempts or attempts at self harm

Never received professional input regarding alcohol use

Medical history

Age 19 - RTC x2, traumatic brain contusion

Age 20 - mesial temporal lobe epilepsy

Family history

No family history of mental illness

Developmental history

C-section delivery

Achieved all normal developmental milestones at appropriate ages

Attended Village Primary school, got on well with peers. Went to Redeemer Grammar School, was studious and didn't have a large friend group. Got three A-levels and started university in Belfast however dropped out age 21.

Social History

Unemployed – previously had a part time job in a shop while at university but was fired for poor attendance a year ago.

Lives with ex-partner and 1 year old child at present although has been trying to find alternative accommodation.

Not currently in a relationship. One previous long-term partner. Relationship ended 2 months ago. Not currently interested in a relationship.

1 year old child (lives with ex-partner)

Alcohol and drug history

Began drinking socially in university, then more regularly approx. 1 year ago -started with a few beers at the weekend, but increased over past 5 months, recently it has been 3 or 4 litres of cider per day, and a half bottle of vodka. Has tried to stop a couple of times but only able to manage 5 or 6 days before relapse. Got withdrawal shakes and sweats, no seizures.

Denies illicit drug use

Forensic history

2 RTCs

Mental State Assessment

In hospital pyjamas. Kempt, poor eye contact, looking downward. Initially difficult to form rapport but gradually opened up during assessment. Flat affect.

Speech was flat monotone, low volume.

Reports a low mood – subjectively 2/10 (was 0/10 at time of overdose)

Objectively he reports a significant loss of appetite with several stone of weight loss. He finds it hard to sleep and lacks motivation to get out of bed. Has lost interest in interacting with child and ex-partner. Used to enjoy going to rugby matches with his friends but no longer even watches them on TV.

As outlined above, took a planned overdose 3 days ago on a background of feeling hopeless about his current life circumstances and feeling that his child would be better off without him. Initially ambivalent about the future however some evidence of future planning as willing to engage with addiction services. Did not identify any protective factors. No current active suicidal ideation.

No auditory or visual perceptual disturbances. Reports negative internal thought content but no hallucinations.

No delusional thought content.

Orientated to time, place and person.

Good insight into current presentation.

Summary

Depression – suitable to restart antidepressant, counselling provided

Suicidal ideation – currently low risk

Alcohol-use disorder

Plan

Restart citalopram at 20mg OD. Mirtazepine alternative option could be considered due to beneficial side effect profile.

Community mental health team referral

Addictions team referral

Discharge Letter



Discharge Letter

DR: GP	Consultant:	DR PETER TONER
	Ward:	ACUTE MEDICAL UNIT

H&C No: 379 405 7365

D.O.B.: Age 23

Dear DR Sherwood Dundonald Health Centre 18 New Road BELFAST BT15 8JH

Re: Mr James Booker

Outstanding: Yes

Admission Date: 27/11/22 Discharge Date: 30/11/22 Method of Admission: EMERENCY DEPARTMENT Discharge Dest: Usual

residence

	Current Episode Details
Principal Diagnosis;	
Underlying Conditions & Co-morbidities:	
Principal Procedure:	Date: Date:
Other Procedure:	
Clinical Summary of Admissi	on:
Investigations & Results:	
Appt to be made Further Tests/ Investigations	Test Appt made on

No ✓

SP SUMMARY LETT	Г	-		10 L		
Review Arrangemen	res			/Cons. Made for		
teview Arrangemen	13. 140		Арріі	viaue ioi		
Action Required by Yes ☑ No ☐			&Es in 2/52	to reche	ck Na+ lo	evel
ollow-up Referral to	o:					
nformation, Results lo ☑	about Diagnos	sis: Pati	ient: Yes 🔽	No□ Re	elative: \	∕es □
any Known Allergies ection)			if yes pleas		n comme	ents
Drugs on Dis		ote all dru	gs irrespective	ot		
Drug Name and Strength	Route of Administrati on	Dose	Frequency	Length of Course	No. of Days Supply	Pharmacy Use Only
CITALOPRAM	РО	20M G	MANE	NEW	7	
KEPPRA	PO	500M G	BD	ONGOI NG	-	

No Change From Admission Meds:			
Patient Moving to Discharge Lounge: Yes □ No ☑			
DR SUSAN TODD For Consultant DR P TONER	Pharmacy Authorization Clinical Check by: M FERRY		
Bleep: 7689	Labelled by: J WHITE Dispensed by: F DOYLE Checked by: N ROBERTS		
Date: 30/11/22 Grade: FY1	Official by: N NOBERTO		
Completed By: (if not originating Doctor)			
Signature:Susan Todd	Print Name:_SUSAN TODD		
Registration Number:789999			
Date of completion: 30/11/22			

Community Follow-up

Mr Booker's GP, Dr Sherwood, receives his hospital discharge letter. She rings Mr Booker and asks him to come in for face to face review the next day.

GP EMIS web entry

01.12.22 14.30

Recent HDU admission – planned OD with significant risk- discharged under crisis team- awaiting CPN allocation. Child protection processes commenced by ED. o/e tearful – regrets OD- states recently broke up with partner and this was 'final straw'. Appears low mood today, sleep and concentration poor, denies street drugs. Adhering to citalopram 20mg mane prescribed in hospital. Asking for 'MOT' as feeling physically unwell, TATT, low energy. Bloods from hospital adm reviewed – FBP normal range.

Impression – high risk OD, some evidence of depression, no TSH today. Safeguarding issues present.

Plan

- Explanation re delay for SSRI to take effect
- Signposted to online sources for support for low mood
- Daily dispense- rv 1 month
- Agreed check U&Es, TFTs, HbA1c in 2 weeks before next appt
- Updated on Gateway safeguarding processes- upset but accepted same
- Declined community addictions input at present- aware can be done at any time
- Options for social prescribing discussed
- Safety plan discussed- rv here/ ooh/ hospital any time if concerns

Acute prescriptions

01/12/22 Promethazine 25mg nocte as needed – short term use only ISSUE 14 TABS DISPENSE DAILY

Repeat prescriptions

01.12.22 Citalopram 20mg mane ISSUE 28 TABS DISPENSE DAILY

01.12.22 Levetiracetam 500mg bd ISSUE 28 TABS DISPENSE DAILY

24.02.21 Levetiracetam 500mg bd ISSUE 28 TABS

Problem list

G40 Epilepsy and recurrent seizures

F10.2 Alcohol dependence

X61 Intentional self-poisoning by and exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs, not elsewhere classified

F41.2 Mixed anxiety and depressive disorder

XaAey Referral to Social Services

ADDITIONAL FACILITATOR MATERIALS

Blood work

379 405 7365 BOOKER James (Male/22 years)

Electrolyte Profile

Number	1	Ref. Range (Units)
Collected	14-Dec	
	2022	
	08:45	
Signed	a Colonia de la	
Source	BHSCT	
Sodium	*128	136-145 (mmol/L)
Potassium	4.4	3.5-5.3 (mmol/L)
Chloride	*93	95-108 (mmol/L)
CO2	25	22-29 (mmol/L)
Urea	7.2	2.5-7.8 (mmol/L)
Creatinine	80	45-84 (μmol/L)
eGFR	>60	<60 (mL/min/1.73m ²)

^{*} Denotes abnormal result

Thyroid function tests

Number	1	Ref. Range (Units)
Collected	14-Dec	
	2022	
	08:45	
Signed	D	
Source	SEHSCT	
TSH	2.8	0.3 - 4.2 (mU/L)
fT4	18	9 - 25 (pmol/L)

B12 and folate

Number	1	Ref. Range (Units)
Collected	14-Dec	
	2022	
	08:45	
Signed	S. C.	
Source	SEHSCT	
Serum vitamin B12	268	160 – 925 (ng/L)
Serum folate	3.2	3 – 15 (μg/L)

HbA1c

Number	1	Ref. Range (Units)
Collected	14-Dec	
	2022	
	08:45	
Signed	D	
Source	SEHSCT	
HbA1c	38	20 - 42 (mmol/mol)

Further investigations

Dr Sherwood speaks to Mr Booker, who is feeling physically fine. She requests some more tests:

379 405 7365 BOOKER James (Male/22 years)

Electrolyte Profile

Number	1	Ref. Range (Units)
Collected	16-Dec	
	2022	
	08:30	
Signed	Ø	
Source	BHSCT	
Sodium	*128	136-145 (mmol/L)
Potassium	4.4	3.5-5.3 (mmol/L)
Chloride	*93	95-108 (mmol/L)
CO2	25	22-29 (mmol/L)
Urea	7.2	2.5-7.8 (mmol/L)
Creatinine	80	45-84 (μmol/L)
eGFR	>60	<60 (mL/min/1.73m ²)

^{*} Denotes abnormal result

Serum Osmolality

Number	1	Ref. Range (Units)
Collected	16-Dec	
	2022	
	08:30	
Signed		
Source	BHSCT	
Serum Osmolality	270	275-295 (mOsmol/kg)

Urine Osmolality

Number	1	Ref. Range (Units)
Collected	16-Dec	
	2022	
	08:30	
Signed	£ P	
Source	BHSCT	
Urine Osmolality	285	(mOsmol/kg)

Urinary Sodium

Number	1	Ref. Range (Units)
Collected	16-Dec	
	2022	
	08:30	
Signed	B	
Source	BHSCT	
Urinary Sodium	35	(mmol/L)

Summary

Dr Sherwood decides to manage this by cross-tapering citalopram to mirtazapine. She arranges appropriate management and monitoring of blood results. James engages with the community mental health team and social services. Primary and secondary care services are both involved in his long-term follow-up.