

Case Studies with Activities for BTEC Level 3 National in Health and Social Care

Unit 14: Physiological Disorders and Their Care

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Teacher's Introduction

This resource has been prepared to assist students and staff with the learning air National in Health and Social Care. It comprises a collection of presentations by studies, set in the fictional town of Thornton Green. These provide the basis for both classroom and homework use, to complement the teacher's input. It should but should instead be seen as a guide to help students in the irrown research. It teacher; it is a supplementary source to facilitate each g and learning, and couvirtual library.

It contains a variety of the formed activities, discussions, tasks and practical care situation he and designed to encourage students to develop their know their assign. In Unit 14, students are expected to choose two disorders to in which they create a care plan for one of them. The activities in this resource withey need to achieve this before they carry out the research for their own choice may find it easier to use some of this material as the basis for their actual assign may prefer to take what they have learned here and apply it to examples they have example, a case study based on a service user they know in placement or a family

In writing this, I have called upon my experience as a clinical scientist, including we technician in the NHS. I have also used activities similar to these while teaching a students, including both the 2010 BTEC specification and the current 2016 version written for. In addition, I am approaching this as a long-term user of the very NHS have both type 1 diabetes mellitus and coeliac disease.

All the worksheets are photocopiable, and they provide a valuable resource for the place through practical tasks performed by the students the selves. Where releasing the place through practical tasks performed by the students the selves.

Many of the activities and case structed, assed on visits to and interviews with that the information is as a factor and as relevant as possible. Organisations and different argument and approvision may depend on practitioners' interpretation strongly record that contact is made with local authorities and service provisituation is a factor what is presented here and, if possible, to arraspeakers in.

The information provided is correct at the time of writing, but legislation and circushould check the current situation for any changes.



A web page containing all the links listed in this resource is convenient Education's website at **zzed.uk/9415**

You may find this helpful for accessing the websites rather than typi





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The Thornton Green scena

The presentations and case studies in this book have been drawn from health and social care settings in Thornton Green, a small market town a few miles from and society, with several features that any upical of many towns in Britain in the twenty-first century.

A recent waith survey shows that residents generally enjoy a good standard of health,

but there are pockets of deprivation where health is poor, and a large proportion of the town's children live. One such area an area of mainly social housing, with few amenities, three micentre. Access to services is generally good, but recent econocreated transport issues for some elderly and poorer residents

The local health service providers have identified the following concern: coronary heart disease, various cancers (including lumobesity, diabetes and asthma. With an increasing number of area, there is a growing need for services for them, including services are having to handle more disorders of ageing, include Parkinson's and various forms of the hards.

The creditoris is the Lear to service cutbacks and business closus increase level of unemployment. Many long-established been replaced by charity shops and fast-food restaurants. A regroups have been identified as needing additional support for including travellers, homeless people, members of ethnic minor from Eastern Europe.







Presentation 1: The general practitioner

My name is Dr Rachel Morris, and I am a general practitioner (GP) attached to the Parkway Health Centre in Thornton Green.

My role is to see to the medical needs of our varied community. Patients can book an appointme at some or one of my colleagues at the practice variety by ey nave an illness, and we assess their symptoms and make a diagnosis.

During a control procedure, I use several investigative methods. As from asking about the patient's symptoms, I take what is I which basically means talking to the patient and asking them questions who diagnosis. These will include asking about their lifestyle habits (tobacco us and any family history of disorders such as cancer, heart disease or diabeted discussed, I might also examine the patient for any observational signs such step in the process is all about narrowing down the possible options and denext stage.

I then do some basic physiological checks of the patient's general level of lameasurements of heart rate / pulse and blood pressure, and using a stetholungs (a method called auscultation). Depending on the symptoms describ might also carry out other tests. These can include collecting urine or blood urine can be tested for the presence of glucose or production (neither of which healthy patient) and blood can be used for a fally box count (FBC) test, we each different blood cell type as well is a level of iron in the blood. You the serum levels of the different blood and other things such as rheum specific antipers.

It usually takes 24 to 48 hours for the results of the tests to come back from take longer. Once we have all the information, the surgery will then contact appointment to discuss the results. Depending on the outcome of the tests treatment plan with the patient there and then or refer them to a specialist physiological disorders, such as diabetes or Parkinson's, a referral to a host that condition will be needed. This is because, as a GP, I cannot be expected know about every condition. My job is to work out the best type of consconsultant will then do other tests to work out a more precise diagnosis (for type of a disease they have and how severe it is) and discuss a treatment plachieved, the patient is usually referred back to our practice for long-term responsibility to prescribe the medication suggested by the consultant and use reviews (usually on a six-month cycle).



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Presentation 2: The nurse practitioner (diabetes specialis

My name is Abena and I am a nurse practitioner at Parkway Health Centre in Thornton Green.

I am a specialist nurse and my role is to carry out regular appointments with patients with diabase mellitus. For most of these appointments is part of what we call the regular 'Molliane's Review' process. It is a required that patients on medication system to hear review of their treatment every six months or so. The online system the practice uses for repeats is set up to only allow a prescription item to be ordered six times before it needs to be reviewed.



A review is usually a short appointment with the patient. We discuss how whether there are any issues with the treatment. I will measure their weigh comment on any blood or urine test results that are shown on the patient's I will take a blood sample via venepuncture to carry out the haemoglobin testing for cholesterol and any other blood factors that may be required based appointments. Sometimes the GP or consultant will suggest investigative something will come up in the conversation with the patient that requires will check for vascular and nerve damage in the low tremities. This is complication of diabetes which can, if not cau gni name, lead to ulceration limbs. I have had patients who have fall juries to the foot, caused by star piece of broken glass, which we not been aware of due to nerve dam response. The as a large causes slower healing due to a blood supp stays open 7, et infected because it is not treated. This can lead to gan prevent this encourage regular checks of the feet by patients and chiro own basic checks. These include checking the pedal pulse (the pulse that ankle) and stroking the patient's foot with a monofilament Semmes-Weins with a sharp needle to see if they react.

Another part of my role is to make sure that the patient is aware of all the This can include access to a chiropodist or optician to deal with some of the well as making them aware of the existence of charities such as Diabetes U facilities such as the DAFNE (Dose Adjustment For Normal Eating) courses

- $^{\circ}$ DAFNE: zzed.uk/9415-dafne
- ① Diabetes UK: zzed.uk/9415-diabetes

ACTIVITY

Abena is herical in diabetes. Do some research into the other roles nurse practioner; for example, specialist in different disorders, working with a consultant or in a community clinic.

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Presentation 3: The private care home worker



My name is Samantha Gar Pinecroft care home in The

Pirocal is a privately run eil by patients, some of we diseases of ageing. We have from the after effects of a su profound effects on their que who have long-term condidementia or arthritis.

It is our responsibility as care workers to manage the varied needs of our reare as comfortable as we can make them. This involves making sure they religious/ethical and medical dietary requirements, and that they have a coare appropriately entertained and cared for.

Because care at Pinecroft is 24 hours a day, seven days a week, our manage ensures that all staff are given the overnight and weekend shifts on a fair restaff – for example, child care – are also taken into consideration. We cover full- and part-time permanent staff and hourly paid agency staff hired from recruitment office that specialises in care staff.

Permanent staff are expected to maintain the Calcanual professional development of different conditions after the Langement of different conditions are expected to have the same and in g, which can be provided by us or via the long their calcanual to have a clean certificate. We also expect all care staff to and education for the role they are conducting and to comply with professive regularly inspected by the Care Quality Commission (CQC) to ensure we are

I spend some of my shift doing rounds of the patients' rooms, helping the other duties such as ensuring they have their medication and giving what get to the dining hall or recreation rooms. For example, when I am doing duty to wake the residents up and help them dress before taking them to tidy their room and make their bed. Each resident has a care plan in which how we deal with them. For example, it will list whether they are vegetarabeen prescribed a low-protein or other medical diet. It also covers such the schedule and what assistance they use for mobility example.

The residents we deal with often have a surface in assisted care hore and the level in assisted care hore and have assistance on his independence in the level in

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Case Study 1: Meera

Meera is a 15-year-old, newly diagnosed type 1 diabetic. She has only just been released from hospital and into the care of the staff at Parkway Health Centre. However, she is also having regular outpatient appointments at the diabetic clinic with Dr Zhou while her treatment relating adjusted.

She lives with her was in the Greenview estate and is a student studying are mock exams when her diagnosis occurred. For a number of weeks her parents and teachers were concerned that she had been losing a lot of weight, and it was initially believed she might have anorexia nervosa. It was also observed that she was asking to go to the toilet a lot in lessons and on one occasion a student was sent to find her as time and she was found in the corridor drinking from a two-lit. She complained when challenged about this by a teacher that is always tired and that she needed the drinks for the energy incident has led to bullying by her classmates and this, combinall the time and spending a lot of time out of class, has severe attendance and attainment in school.

It was clear something was wrong bu reiner her parents not the reasons for the symptotic she collapsed during a PE who attended the was quick to spot the characteristic phreath and immediately put bring her blood glucose down, and fluids (isotonic saline) to remeantime, the consultant ordered an HbA1c test and a c-pept the diagnosis as type 1 diabetes.

She spent several weeks in hospital both recovering from her educated in how to manage her diabetes. She has been present and has been working with a dietician to establish how to fit be treatment. She has already complained extensively about not drinks and is clearly distressed by the potential changes to he bring.

For more information on the different procedures used here, use

- C-peptide test: zzed.uk/Call-cncy.iae
- ↑ HbA1c test: zzed : 1 5-...ba1c



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FACT SHEET 1A: INVESTIGATIONS FOR DIAGNOSIS OF DIABETES

Rachel Morris, GP at Parkway Health Centre

For diabetes mellitus, the big giveaway symptoms are thirst and excessive urination. If a patient reports those my first step will be to ask them to supply a urine sample which will be tested for the presence of glucose. We use a commercially bour prick test which gives a reading as none, trace, +. ++. ++ or the rather than a numeric value. The same testing and its accondance of ketones in the urine using the presence of ketones in the urine using the urine us



The presentither glucose or ketones in the blood is a cause for concernivestigation. The next step would be to do a random blood glucose test for same sort of kit that we issue to patients for this purpose and it will display mmol/L. Normal range is between 4 and 6 mmol/L and we have concerns much higher than that.

Another test we will use is called the fasting blood glucose test. This is where overnight and their blood glucose is tested again. Blood glucose should fall if and has normal insulin function. A fasting blood glucose of greater than 7 mm

The final test we use is called the HbA1c test. This gives an indication of be months and measures the percentage of the patient's haemoglobin that is bound to it. The longer the glucose levels in the blood are high, the higher haemoglobin. A level of 7–8% (above 53 mmol/mol) is a cause for concernivenepuncture and is sent off to the hospital lab. We will get the results though in an emergency we can usually get it emplaced.



Dr F 1 As, A & E consultant at Thornton Health and the commonly come into A & E in through a collapse caused by ketoacidosis. Our first proby restoring fluids and to bring the blood glucose down usually requires an insulin drip with frequent monitors.

Ketoacidosis is a build-up of ketones in the blood cause down fats for energy and it can be deadly – leading to cause treated. Paramedics are trained to spot the tell-tale signismell of 'pear drops' on the breath. If they spot this, the blood glucose test to confirm and call in to us at the hos

Dr Hannah Zhou, consultant diabetologist at Thornton Heath Hospital

Patients usually come to me via a GP referral or from A & E. The first thir urine, blood glucose and HbA1c tests performed by the GP or A & E consuconfirmation of the results and see if there are an accompanient to establish the diagnosis more resignly, such as a c-peptide test. This checks for a protein value of a patient with high blood glucose, it was a patient with high blood glucose, it was a patient with high blood glucose, it was a companient with high blood glucose, it was a patient with high blood glucose, it was a companient to be accurate diagnosis of the exact form of diabetes. It is very important to be accurate diagnosis of the exact form of diabetes the patient has because the treatment methods are very different. In Meera's case, we very easily diagnosed type 1 and were able to quickly move into establishing an appropriate treatment regime.

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FACT SHEET 18: PROFESSIONALS AND CARE SETTINGS FOR D



A diabetic patient is likely to need to so professionals in the course of their treathey will need to have regular appoint and will have to be eto us regularly prescript on the dispensed by the community, such as chiropodists at local health trust sends out a reminder

have a reti Typy san to check for the onset of diabetic retinopathy. Mos done by the opticians in Thornton Green high street.

Meera is newly diagnosed and very young so we do not expect her to development of a long time. However, if she is not careful in her control eventually need to access other services such as a nephrology ward for diagon support for blindness.

Jacey Long, supporter care advisor (Diabetes UK)

Diabetes UK is a charity which looks out for the needs of diabetics. We provide a number of opportunities for diabetics of all ages to socialise and also provide education on the disorder for those newly diagnosed. We can offer advocacy services and advice on insurance and other financial matters. As a charity, we fund research into diabetes and also lobby government on behalf of our members. One of our greatest successes was lobbying for free presentations on the NHS for all diabetics.

Dr Hannah Zhou, consultar's and a pagist at Thornton Heath Hospital



My role as consultant is to offer a varied across the trust area. This includes out Green hospital, but we also do some consurgeries and other primary care centres community clinics are there to augment to make my services as a consultant more

I also run specialist clinics such as one antenatal session for women with diab

gestational diabetes, and an 'insulin pump' clinic. In my appointments we best care and treatment plan for her, making sure that she is empowered to about her own care. Her choices will determine which services she will acceptable, she attends my 'insulin pump' or 'young person' clinic. We will continually and determine if my services are adding value to her care or we different service. For example, she may start in control improve the hospital-based community clinic as her control improve. Also better older and her lifest discuss modifying her care to suit and connections.

All clinics respectively aber of different professionals. The community of diabetes not displayed a dietician available, whereas, for the hospital-based clip three junior cors, three or four specialist nurses, a dietician and an option more specialist equipment, such as a camera for taking retinography image diabetic eye disease. We are currently looking at a cost–benefit analysis of clinic, but currently patients need to access that service in the community.

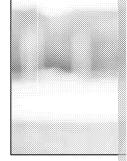
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Case Study 2: Rose

Rose is a 60-year-old woman who lives alone on Greenview es

Her husband died of a heart attack two year ago and she still lives in the three-berround house they shared together for the and her daughter's husbandean, on the suburbs of Thornton Green, where she works as a primary school teacher and he travels a lot as a financial auditor. Marjorie tries to visit her mum as often as she can but finds it difficult due to her work, childcare and the fact her



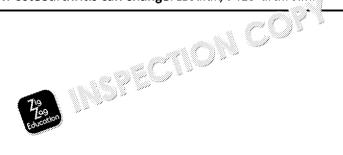
husband uses their car a lot, so the journey from Hemdean to

Around five years ago, Rose went to the doctor complaining as her right hip. The doctor diagnosed osteoarthritis and put her and told her to come back if it got worse. Since then, she has relief suggested, has adopted a cane to help her walk and has complaints'. She took early retirement from a job as a library School when her husband died and start doing charity work organises coffee mornings for the time Aged and acts as treas. The arthritis had not sometimes for the pune Aged and acts as treas.

However, she was also experiencing sore and stiff fingers, arthritis in her hip had suddenly got worse and referred her to for a hip replacement. However, she also suspected the knee showing signs of rheumatoid arthritis and so sent her for blooc-reactive protein test and a rheumatoid factor test) and scans

For more information on diagnosis of osteoarthritis, use the for

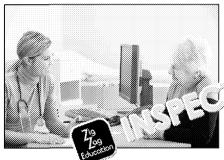
- General information: zzed.uk/9415-osteoarthritis
- How osteoarthritis can change: zzed.uk/9415-arthrolink



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FACT SHEET 2A: INVESTIGATIONS FOR DIAGNOSIS OF OSTEOAR ARTHRITIS



Dr Rachel Morris, GP at Parkway Heal

The diagnosis of osterarthritis is often examination of joint and through different ones. We look for the classic start of the start of the patient's GP, I can usually work out

the symptoms and make suggestions as to how patients can manage the clocomotion caused by the disorder.

However, osteoarthritis is a progressive disorder and can sometimes progressive stability. In the case of Rose, this is exactly what I suspected has considered it necessary to refer her to a surgeon.

In addition to the worsening of her osteoarthritis, I suspected Rose was also arthritis in her knee and finger joints. For this reason, I also referred her for specialist to help formulate a treatment and support regime to manage bo



Mr Richard Marshall, consultant orthopaed Hospital

Our first step in an in a ng osteoarthritis is to caused by the strong else. For example, if not a modern action and the strong else in a markers of rhad action and we will use imaging a resonance imaging or ultrasound to visualise

might do in gative surgery, using keyhole methods and a camera to lo

The next step is to establish how severe the arthritis is so that we can determ Many patients can be referred to another specialist for non-surgical treatment viscosupplementation, for example. These are sometimes better for younger patients we consider joint replacement if they are eligible due to their age and

Dr Ciaran McGarret, consultant gerontologist at Thornton Heath Hospit

My role is to help diagnose and treat patients with age-related disorders, including arthritis. I run regular clinics both in the hospital and in the community and can also do home or care home visits if absolutely necessar I vary the locations of my clinics to improve accessibility and we always have to be careful to ensure that our locations are finely accessible to wheelchairs and similar mobility aid a patient are aware that they can ask for hospital transfer to needed.

For Rose, the day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritis she has a her day-to-establish exactly what form of arthritish exactly what for a her day-to-establish exactly wha

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FACT SHEET 28: PROFESSIONALS AND CARE SETTINGS FOR O

Dr Rachel Morris, GP at Parkway Health Centre

Many arthritis patients are managed in the command, arough the surgery. They come to us for their repeature or patients and for checks to review their medication. If any the larges in their arthritis, such as the symptoms progressing the larges are appointment to discuss this and we can consider the largest with it.



Tony Fields, helpline advisor for Arthritis My role is to act as a first point of contact whelpline looking for advice. Sometimes the advice on how to handle their symptoms at to talk. I do sometimes have to act as a coulalso offer email and face-to-face support. A fundraise to pay for the provision of our help

provide general information about all forms of arthritis. Our website contanumber of arthritis patients who all give a positive spin on their experience important for other patients to read.

d zzed.uk/9415-arthritiscare

Mohammed Aswan, NHS physiotherapist b see a hornton Green Hos Many arthritis patients find regular s so with a physiotherapist to be used as hor regular exercises the second strengthen the muscles around their joints things such as hydrogeneous bands to achieve this, and some patients find treasuch as hydrogeneous earn to a short period of with me then the patient can take what they have learnt and carry on the treatment.

In addition to this, many patients find alternative therapies such as hot stocked help relieve their symptoms. The NHS supports these therapies so long as patient is not abandoning their medical treatment in favour of them. There acupuncture and similar therapies.

Maria Coleman, occupational health therapist

The symptoms of arthritis can lead to many issues with he patient's day-to-day life. It is my role as an ocul, at chall therapist to assess exactly what there is a lating as simple of and work out strategies for them. This can be a simple as a device to help open ions or the lating the patient's kitchen so the things they need them. We can supply mobility aids such as walking sticks, Zimmer frames or wheelchairs to those who need them. We usually can't provide scooters for patients

but we do offer vouchers for discounts to buy one for those patients who

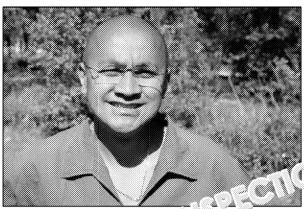
⊕ zzed.uk/9415-mobility

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Case Study 3: Vijay



Vijay is a 47-year-old father of with his family on the Greenv wife, Ayesha, works part-time His two children (Meera, 15, a both attend Greenview High S to work c. La us Park indust ดา การามาacturer, but since the inco receivership a few years factory closed, he has been u

He has been a keep smoker for much of his life, not uncommon in the heavy industry. He has a history of trying to guit without success but stopped trying since becoming unemployed. He has also given up lo saying there is nothing out there for him, and he never really had a so of his work colleagues. He spends a lot of time at home alone and his concerned about him being depressed. However, despite her efforts, report to his GP or any mental health service with this.

Vijay presented to his GP at Parkview with a series of chest infections cough that he just could not seem to get rid of. He was treated with antibiotic combinations, and while each seemed to relieve the infection would just recur a week or so later. On one of his visits, Vijay report urinated blood. The doctor saw this as an imms and a concern. She so prostate cancer so performed a digital racial communication and took a check for infection and a blood same to check for PSA (prostate-spec Given the history of smoling a landustrial work, she was also concern respiratory sym 199 s pare indicative of either lung cancer or chronic pulmonary disea OPD).

The GP ordered an immediate referral to Dr Simons, an oncologist at hospital and gave Vijay leaflets and advice on the NHS stop smoking

Dr Simons did some tests and discovered that while Vijay did indeed prostate cancer, there was no evidence of lung cancer. This led to a respiratory specialist, who diagnosed COPD.

For more information on the disorders seen here, use the following websites:

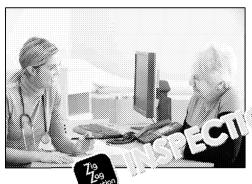
- Prostate cancer diagnosis: zzed.uk/9415-prostatecancer
- COPD diagnosis: zzed.uk/9415-COPD



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FACT SHEET 3A (1): INVESTIGATIONS FOR DIAGNOSIS OF PROS



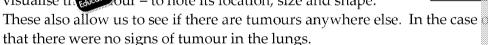
We were very lucky to catch the protection. Many not insues with sexual performance don't want to report them to the document.

The blood in the urine was a strong indicator of something that required in performing a digital rectal examination that confirmed the prostate was empositive blood test for prostate-specific antigens and a negative test for uring prostate cancer a high likelihood.

The diagnosis of cancer is not certain, however. An enlarged prostate could men develop something called 'prostate enlargement'. The oncologist show exact nature of the problem.

Dr Sarah Simons, consultant oncologist at Thornton Heath Hospital

There are many tests we can do to diagnose cancer once a patient has been referred. There are two important steps here. The first is to establish that it is indeed cancer and not have the other disorder that will require referral to and the strice. Secondly, we grade the tumour and the literath has spread to somewhere other than the primary she. When this happens, we say the cancer has the strice resonance imaging (MRI) scans to visualise the court – to note its location, size and shape.



Once we have located a possible tumour, we need to perform a biopsy to wif so, how fast-growing it is. There are two ways to collect a sample for bigultrasound guided needle inserted into the anus – and transperineal – when the perineum (through the skin behind the scrotum). The sample is then so

This information is all pooled together to allow us to grade the tumour. To for this – number staging and the TNM system. The grade we assign the together the determines which treatment method will be most effective.

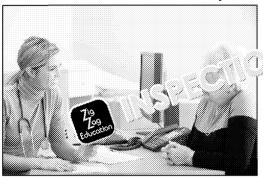
	TNM staging		Numb
Т	Size and position of the	Grade 1	Small, localised to
N	Which lymp's the been affected, if	Grade 2	Larger tumour. Notes tissues adjoining
M	Whether the cancer has metastasised and to what extent	Grade 3	some evidence of advanced' – havir
_	N1M0 is a large tumour that has spread to mph nodes but not yet metastasised	Grade 4	Secondary or met through the lymp

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FACT SHEET 3A (II): INVESTIGATIONS FOR DIAGNOSIS OF CHROPULMONARY DISEASE

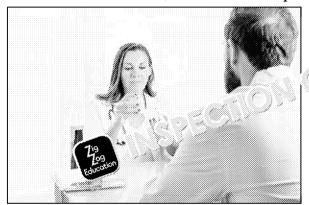
Dr Rachel Morris, GP at Parkway Health Centre



The symptom of COPD are not from the property of the symptom of COPD are not from the property of the first or sparatory disorders in the first or sparatory disorders in the first or sparatory of heavy smoking put towards lung cancer or COPD. The ask those personal history question procedure because anything the clue as to what is really going on

I had no way to confirm which of the two it was and determined that it was oncologist for the potential prostate cancer (see fact sheet 3a(i) for details) are of lung cancer at the same time. This would then allow a referral to a respir was COPD. As it turned out, there was no lung cancer so the referral to Dr

Dr Sabrina Fairweather, consultant in respiratory medicine, Thornton H



COPD is common in indust who work with airborne du Ofter '.' symptoms don't subjust up a until the patient is or diagnosis difficult.

The most common method spirometry test. This involve through a mask into a machine measures various factors all volume and how much air

them in one second. These readings are compared to a normal standard for to determine if there is a problem.

Many of the rest of the investigative procedures we perform are to eliminate example, a chest X ray to eliminate infection and lung cancer. We also take blood count (FBC). This can show infection (through white cell counts) but for anaemia or polycythaemia (high red cell concentration) as both can be as COPD. There is also a test we can do to check for a specific genetic mutadeficiency) which is a risk factor for COPD. However, this condition is related to the condition of the condition of the condition is related to the condition of the condition of the condition is related to the condition of the condition of the condition is related to the condition of the condition of the condition is related to the condition of the conditi

There is a risk of confusing CODE (a) had had as the symptoms are very from the diagnostic toc's and it. However, the risk factors for the two Asthma is a confusion and that is diagnosed in youth and has a series of we lead to an analysis of the established when taking a patient history breathing issues get worse when they are exposed to certain allergens? CO to occur in middle age and is linked to a history of smoking or exposure to workplace. Given this information, the balance of probability suggests Visit

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FACT SHEET 38 (1): PROFESSIONALS AND CARE SETTINGS FO



As we do for many patients with long-term patients through the repeat prescription set acquire whatever the bed from their compatients are to bur online system, whither the who are in care or unable the delivery service. We are also available

side effects of the treatments through our

Prostate call attents can often go for a long time without needing treat. However, there are many who suffer problems such as erectile dysfunction presence of the tumour. The surgery can help them by providing a prescription sildenafil (Viagra) or training them to use pelvic floor exercises to improve muscles.

Dr Sarah Simons, consultant oncologist at Thornton Heath Hospital



I have regular consultations with cancer poutpatients' clinic during their treatment there to allow me to check the treatment is change it as necessary. I also see them for over for regular reviews to check that remarked cancer does not return. My duties also in oncology ward at The change it on Heath and vision.

care homes who are not able to travel.

Many of the treatments for corporate pare regular visits to a specialist clinic performed. My team to and runs these clinics and makes sure the needed for the regular visits are available.

Anisa Begum, Macmillan nurse

Macmillan is a charity that supplies funding to pay for nursing support for cancer patients. As Macmillan nurses, we are expected to work within the NHS with patients undergoing palliative care, which is sometimes referred to as end-of-life care. Some of us work in NHS hospitals while others work in the community, in care homes and hospices. Before I became a Macmillan nurse, I worked for a few years as a general nurse and did some training as a mental health nurse before deciding that palliative care was a good. I am experienced in managing pain in patients and offering a sympton as needed.

Adrienne Lachowicz, assistant psychologist of The Inton Green Primary Cancer is one of the disorders that cancer is a not of emotional stress for

Cancer is one of the disorders that cancer is a not of emotional stress for service users. Even though it is have improved massively in recent years and survey at a are higher, many still consider it to be a terminal domain. As well as holding sessions with cancer patients in primary cancer, I do sometimes also visit them in hospices or at home if needed. Emotional support is essential for cancer patients, especially if they do find out that the cancer has developed to the point where it is terminal and palliative care is the only option. I use techniques theories to help patients negotiate these difficult times.

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FACT SHEET 38 (II): PROFESSIONALS AND CARE SETTINGS FOR PULMONARY DISEASE (COPD)

Dr Rachel Morris, GP at Parkway Health Centre



Vijay's COPD will be mor itored by the surge outpatient clinic as 's CP, I am responsible access his real atom. A common treatment of the same bronchodilators used their role is to expand the airways to make will be prescribed either short- or long-acting may be on the ophylline tablets, which relax

However, the most effective way to treat COPD in the early stages is usual surgery also serves as a venue for the stop smoking service offered by the one and group sessions in consultation and meeting rooms after hours. Storeverse any damage already done but it will prevent more damage from o

Dr Sabrina Fairweather, consultant in respiratory medicine, Thornton Ha



My team works with Vijay in my outpasymptoms are under control. It is my reconfirmed, to establish the most effection may take a number of visits to the clinic regime that works

Iv ... re I surgery will be doing, I

and explore the difference of this. For Vijay, this may be all he needs if his and this is an as a means he does not have too many different treatment and his precedent ancer. I will liaise with his GP and oncologist to make survey prescribe interfere with each other. For example, theophylline cannot smoking. Bronchodilators also do not work well if the patient is taking cere Given that Vijay is already showing symptoms of depression, it is likely the up taking antidepressants, so we need to be aware of this.

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Case Study 4: Reginald (Rex)

Reginald, who prefers to be called Rex, is a 62-year-old man who lives with his wife on Shakespeare Road, a row of large houses opposite Greenview High School. He trained as an engineer and start as career as a designer for the arrangement of the design department. His wife, who is 58, is the current principal at Greenview High School.



A few years ago, Rex suffered a heart attack and almost died.

employer went into receivership and closed, Rex chose to take exthan look for another job, though he did take on some freelance himself busy. However, he recently started to notice problems muscles in his hands. One of the fingers on his right hand would making it difficult to use his computer mouse. He was also have his chair. Initially he thought nothing of it and is rugged it off as the tremor got worse, and because he was also finding it difficult he stopped taking freelance country during term time, when his wife

By the ting his next routine GP appointment, the symptoms tremor of his hand and the doctor noticed this and asked him so gave him some simple physical tasks to perform, noted how we and suggested a referral to a neurologist, Dr Cadigan, to confirm Parkinson's disease.

For more information on the different investigative procedures used here, use the Parkinson's diagnosis (video): zzed.uk/9415-parkinsonsvideo



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FACT SHEET 4A: INVESTIGATIONS FOR DIAGNOSIS OF PARKINS



Parkinson's disease is a difficult successfully as there is no definit we can per'..... Diagnosis is generated as the period. The tremor is the posee slowness of movement (a muscles. Our usual strategy at the history and ask them to perform

In Rex's case reported that the tremor started in his right hand and, on the does sometimes have trouble standing up from his chair but he had pureported a lack of focus and memory and agreed that he felt his sense of some to be. These are all signs of Parkinson's and help me to distinguish it from similar symptoms. My next step, therefore, was to arrange a referral to the Thornton Heath hospital.

Dr Geoffrey Cadigan, consultant neurologist at Thornton Heath Hospital



An important part of Parkinson other possible causes of the symasymmetrical tremor, evidence symptoms such as memory loss indication to at the cause is a locce is the substantia nigra (reference arkinson's), we do prefer to be other causes.

One such possibility, for example brain. This with be caused by multiple, small strokes in the brain, what we attacks (TIA). The damage these cause can lead to a similar impact on the referred to as vascular parkinsonism. Given that Rex has a history of hear of other cardiovascular diseases, and it is possible an undetected TIA is the TIA can happen without the patient really being aware of it, but the signs still be there.

We can eliminate vascular parkinsonism as a possible cause by performing imaging (MRI) scan of the brain, which will reveal the damage caused by any other issues which may be linked, such as a brain injury. Other possible HIV infection and a form of dementia called diffuse Levy body disease.

A useful method to confirm idiopathing in and's is to prescribe the patient dopamine and send them away with and for a short period before assessing we use is levodopa with a sonverted into dopamine after digestion. If then we can also a Parkinson's and start to refine the treatment plan on the drugger lave to start investigating other possible causes.

More on vascular parkinsonism: zzed.uk/9415-vascular

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FACT SHEET 48: PROFESSIONALS AND CARE SETTINGS FOR P

Maria Coleman, occupational health therapist

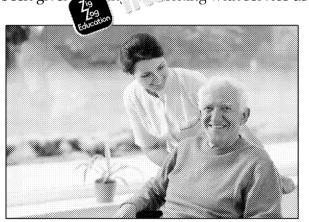
My role with Parkinson's patients is to carry out a basic needs assessment in their home and work out what can be done to make their life easier – simple adjustments such as noting furniture to help them move around the hous of the way make. This can involve suggesting specification involves suggesting specification in the way they do things in the property of the way they do things in the property of the way they do things in the property of the way they do things in the property of the way they do things in the property of the way they do things in the property of the way they do things in the property of the way they do things in the property of the way they do things in the property of the way they do things in the property of the way they do things in the property of the way they do the way they do things in the property of the way they do they



When considering home care, we do need to consider the availability of carneeds assessment usually includes questions about family members who assome tasks. There are also community-based charity and social care service as private care agencies. These can help by doing things around the house housework tasks or provide cooked meals. As the disorder progresses, so need to move into sheltered housing where they can get more support, or

Samantha Garnett, care worker at Pinecroft Care Home, Thornton Green

Pinecroft deals with a number of physiological disorders with our resident that develops with age, so we sometimes see sign and our existing residents have needed to come to us because he's Larkinson's has become at home or in sheltered accommand because their primary carer is resupport them by making and their needs are taken care of. Like no been given to the large of the large



issues a specific service use help with deciding strategato help.

We may see Rex in the how the time being it is likely home with a combination. This situation will be monhowever, and if anything adapted to suit the new cit







Activities

Activities based on the Thornton Green scenario

For most of these activities, you will need the case studies and presentation

The specific materials required for each activity to a party displayed in the

This pack contains a variety of stude in centred activities, discussions, role exercises based on hear and social care settings. They are designed to develop the low or age and prepare to them for the assignments. In additional specifically were the learning aims of this unit, there is one general activities vocabulary used by medical professionals, which could be used as an erequires a lot of individual research by students, it is important that they we come across when reading around this topic. Students should be encourage starting point for their own glossary of terms which they can develop as the

Some activities are designed to be done as group or pair work. How a teal groups and run the activities is up to them. However, it is suggested that of the case studies provided and the members of that group work on that throughout the unit.

Because there is a broad range of professionals involved in treating the difficult to give an appropriate range of experience in three presentations are provided to give additional information from processionals that is specification, there is one fact sheet contains with its diagnosed and another settings. These should be is a discoudents when working on the appropriate range of experiences in three presentations and all the presentation and all the presentation and all the presentations are study at the start of the unit.

Extension activities are there for students to complete if they have complete their own time or during independent study sessions. These are designed to complete merit and distinction criteria on the assignments.

Some of the worksheets and activities can be printed on A3 or larger to all work or for whole-class feedback.

Once the students have completed all the activities, they will have practise complete both assignments required to complete the unit for one physiolog specification requires students to study two disorders for assignment one and C in this booklet) and choose one of those to an acare plan for assignment one according to the complete the unit for one physiological properties.

Students could use one or mor and session studies in this resource as the bor may prefer to work and session of their own choice.

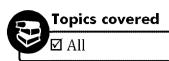


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INTRODUCTION

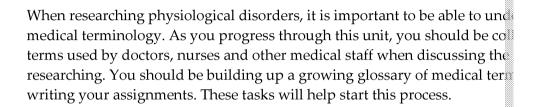
Activity I1 (Glossary of medical t





You will need:

- ☑ Medical dicti
- ✓ Access to relation of the discopies of the presentation

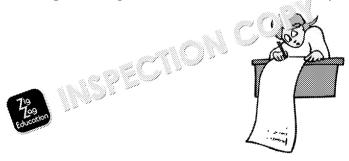


Activity I1 (individual work)

- Your teacher will give you a copy of the clinical staff presentations and On the page 22 there is a list of keywords that are found in the present dictionaries and/or the Internet to find definitions of these words.
- When complete, discuss your definitions with a student. Do you Decide between you which of your and not is best or come up with
- Prepare to feed by A fue as to the class.



- Identify words or phrases in your case study and presentations which definitions for. Write these words in the blank glossary table.
- Discuss these words with your group and try to work out a definition
- Finally, research the actual definitions in medical dictionaries and only definition based on your research.
- You can use additional copies of the blank glossary sheet to add more this unit. Keep the completed definitions in the front of your file where



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Answer Sheet for Activity I1

		۵
Signs		
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Symptoms —		
Symptoms		
Symptoms		
Education		
Risk factors		
Venepuncture		
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	(**C)\$ *	
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Auscultat Education		
Sphygmomanometer		
Physiological disorder		
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Answer Sheet for Activity I2

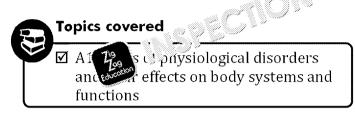
Term	Group definition	
720 Education		
19.00 de 19		
719 Education		

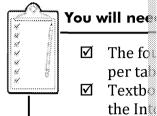
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SECTION A: INVESTIGATE THE CAUSES AND EFFECT DISORDERS

Activity A1: Types of physiological disorders body system and functions





A1a: Types of physiological disorder

- There are four tables, each with a different case study and some other with the case study you currently have, discuss as a group what you to disorder and what organs and systems are involved in the pathology.
- When told to by your teacher, move to the next table and repeat the ta

Notes on this activity

- The aim of this activity is to make such that you are aware of what is not in terms of the specification. It is not factor.
- Online describes, and even some textbooks, won't help you with this. The 'cause' when they really mean 'risk factor'. For example, many reputal explicitly state that 'smoking causes lung cancer' when really they mealing cancer'.
- As far as the specification (and, therefore, these activities) is concerned

A *physiological cause* is a change to a cell, tissue, organ or system that leavample, the blocked coronary arteries in angina or the tumour in care

A *risk factor* is something that increases the probability that the disease unhealthy diet increases the risk that coronary a probability become blocked chance of a tumour developing.

If you keep these two hit has in mind while you work, you should activity

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Name of patient	Name of disorder	Physiological cause
Meera	Diabetes mellitus	
Zig Zog Edvotes	Osteoarthritis	
Rose	Rheumatoid arthritis	
Viiav	Prostate cancer	
Vijay 79 Edwordson	Chronic obstructive pulmonary disease (COPD)	
Down 14 (Bar)	Parkinson's disease	
Reginald (Rex)	Coronary borat	

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A1b: Impact of physiological disorders

- Your next task is to discuss the impact of the disorders. You need to comental, emotional and social impacts of each disorder on the service us record them on the table below.
- Impacts can include such concepts as the and the signs and symptom day-to-day life as well as the side of the disorder (a exchange, how people who use walking aid public).

Name of control of	Physical impact	Mental impact	Emotiona
	:57ECNO	1	
799 7299 Aucation			

A1 Extension

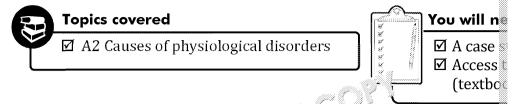
There are many examples of celebrities and sports personalities with physical Research one of these and copy and complete the table below.

Name of celebrity	What are they famous for?	Physiological disorder	One impact of disorder
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Activity A2: Causes of physiological



Choose a physiological is organ rou may select one of the ones used study one of your Choice. Check your choice with your teacher be

Researched disorder and prepare a short (five-minute) speech on the to the class. Use the questions below to help shape your speech.

Name of disorder:	Name of service use
Physiological cause of disorder	
Ris	k factors
Inherited/genetic factors	Lifesty
	1
723	
Education	
Dietary factors	Enviro
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e dyratikon	

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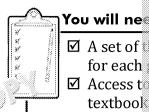


Activity A3: Signs and symptoms of physiol



Topics covered

☑ A3 Signs and symptoms of physiological disorders



You will ne

- for each ☑ Access t textbook disorder
- A3a: What is a symptom?

ll groups (e.g. groups of four). ₩ Work

- Divide the sign and symptom cards into two piles. One pile of signs, back to your glossary definitions of signs and symptoms to check the
- Your teacher will ask each group to feed back. This will involve you i and symptoms correctly.

A3b: What causes the signs and symptoms of a disord

- Within your group, assign roles an even split between doctors and are in a group of four, have two of each.
- Shuffle the cards and put them in front of the parents. Each patient to describe the sign or symptom on it is a coctors without giving away the exact sign or symptox / 5ch = Zample ways to describe it may be free to describe a so to appropriate.
- The do must then confer to work out what disorder the patient h B disorder links to the symptom described.
- Alternatively, this can be done as a whole-class activity where studen card and the whole class works out the solution. You can use mini w answers.
- If the doctors cannot guess correctly, they can ask questions for more stick to the rules above and not give away the name of the disorder. know what an abbreviation stands for, you can remind them of it.



NSPECTION COF



Signs and Symptoms Cards

-		
Excessive urination (diabetes mellitus) e.g. 'Well, Doctor, I just can't stop going to the toil	A cough that lasts more than three weeks. (COPD) justican't seem to shift time cough, Doctor. It's been weeks. Maybe I need some antibiotics?'	I I I I e. I [C _I I
Slow movement (Parkinson's disease)	Persistent chest infections (COPD)	† – I I
e.g. Do a demonstration of your arms moving slowly. [Could also be caused by other disorders such as osteoarthritis]	e.g. 'It wasn't that long ago I was here with another chest infection, I just keep seeming to get them.'	1 e.8 1 1 1 1 1 [C 1 c 1 c
Pain in the hips or knees (osteoarthritis) e.g. 'Ooh, my hip/knee is	Fry a tharst I ficates mellitus)	Tr
really giving me to the state of the state o	e.g. 'I just can't stop drinking all the time, Doctor.'	i I E I fii I
	A fasting blood glucose over 7mmol/L (diabetes mellitus)	r – _I Jo I
(prostate cancer) e.g. 'I'm a tad concerned, my wee was a bit red yesterday.'	'You measured fasting blood glucose and it came out as mmol/L ' [Give a value between 7 an inches.]	I I 'I I bi; I I [' I ['
Breathlessness (COPD)	Stiff in Finexible muscles (osteoarthritis)	 Fi
e.g. 'Lean arm to breath erly, Doctor.' [Could also be caused by asthma or coronary heart disease]	e.g. 'When I wake up in the morning I sometimes can't move my knee at all.' [Could also be caused by other disorders such as Parkinson's disease or RA]	1 1 1 1 1 1 1

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A grating or cracking sound
or sensation in joints
(osteoarthritis)

e.g. 'It's like a sort of crunchy, clicky thing when I move it.'

Problems with urination (prostate cancer)

e.g. 'I find it very difficult to go to the in all Doctor.'

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Serum sample is not file prost prost pecific antigen (proster cancer)

e.g. 'You did a PSA test and it came out positive.'
[If they do not know what PSA stands for you can tell them]

Blood pressure higher than 140/90 (coronary heart disease)

e.g. 'You measured my blood pressure and said it was...'
Give a number higher than 140/90 but no higher ''

of vascular damage or brain damage to explain the patient's tremors (Parkinson's disease)

An MRI scan shows no sign

e.g. 'You did an MRI scan but found no vascular damage to explain my symptoms.'

Serum tests positive for RF (rheumatoid factor) (rheumatoid arthritis)

e.g. 'You took some blood and said it want it ye for RF,
have that means.'
They ask, you can tell them what RF means)

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Heart palpitations (coronary heart disease)

e.g. 'My heart just seems to go rattling off for no reason.'

Erectile dysfunction (prostate cancer)

e.g. 'It's a bit embarrassing, Doctor, but I'm having problems with sex.'

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Zig Zag Education



For the next part, use the case study you have been working on in your gr

In the table below, list the signs and symptoms for the disorder. Use the and your own research to complete this. Add a short description of earlindicating if it is a sign or a symptom. In the third column, explain how linked to the physiological cause of the disorder. Where there is more with the case study, you can choose one to so in here.

Physiological disorder:	Patient name:	
S. 79 sy 1 ptom	Description of sign or symptom]
ediconces		
	<u> </u>	

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A3 Extension - Impact of a disorder

Using your notes on the impact of the disorder, write a report on the inservice user in the case study.

Consider:

- · their lifestyle circumstances
- their family and friends
- physical, mental, and social impacts

You we do seek out sources that back up your claims as to how and we do not use these to present a coherent argument as to who conclusion linked to why this disorder is or is not a barrier to health and

Suggested websites:

Type 1 diabetes:

🕆 zzed.uk/9415-type1

Prostate cancer:

🕆 zzed.uk/9415-cancerimpact

COPD:

⁴ zzed.uk/9415-copdimpact

Arthritis:

🕆 zzed.uk/9415-arthritisimpact

Parkinson's

🖰 zzed.u.

pa kinsonsimpaci

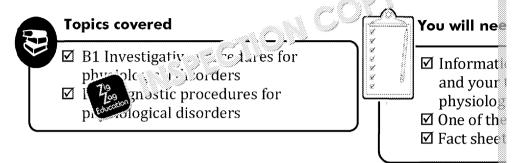
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SECTION 8: EXAMINE THE INVESTIGATION AND PHYSIOLOGICAL DISORDERS

Activity B1: Investigative procedures for phys



B1: What methods can you use to investigate and diagnose ph

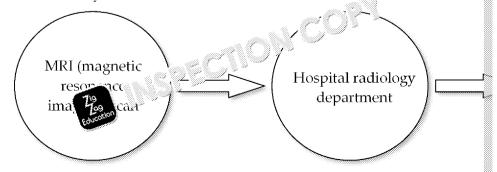
In your small group (no more than four), discuss general investigative by doctors.

Consider:

- methods a GP might use when a patient first presents to them will
- methods a specialist might use in a hospital autpatient setting
- methods that may be specifically applied to the patient in your case
- Be prepared to take parting a vibra-class discussion. Your teacher will each student for the hour and noting it on the board as a spider diagram.

What words can be used to diagnose a physiological disorder?

- Individually, copy this diagram onto a sheet of A3 paper.
- Expand your diagram by adding the places where these investigative performed; for example, GP surgery, hospital ward, specialist clinic of (pharmacy, optician, chiropodist, etc.).
- Finally, annotate your diagram with examples of disorders that might Indicate (highlight or mark with a *, for example) which investigation case study.



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Activity B2: Diagnostic procedures for physic

B2a: Diagnosis of physiological disorders

In small groups (no more than four students), you will work with one relevant presentations and fact sheets to help a reate a poster descrives tigations that could be used as part of the diagnostic procedure for can help you plan your work.

Disorder:		Patient:	
Investigation method	Description		How do
7.9 7.09 Edwarden			

Are there any signs or symptoms in any of the disorders described in your common to another disorder or which may other in a use confusion in here.

If so, how one or more of the investigations above help to confirm

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B2b: Compare diagnostic procedures

- When your poster is complete, your teacher will tell you where to dis
- One member of your group must stay with the poster to help explain the group wander around to view all the other posters.
- You have two goals when viewing other sos w:
 - 1) Grade the posters using the on blow, assessing them based on how well it is presented.
 - 2) Compare Strigative procedures used for one of the disorder

Peer assess poster grading form:

Name of Group:	Disorder:
Grade the following (1–4 where 1 is highest, 4	Comn (Why did you g How could they im
How accurate is the information? Are there any areas you disagree with?	
Do you think they have covered everything on this topic? Are they missing anything?	
Are you factorial this poster engaging? Does it grab your attention and make you interested in the topic?	
How well presented is the information? Layout, clarity, use of colour?	
Overall grade (average of the values above)	

The personner forms are anonymous and should be handed to you the relevant groups.

When you have your peer assessment forms back from the rest of the through them as a group and discuss how you could improve your perfeedback.

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- To compare the diagnostic procedures, complete a copy of this table for Consider signs, symptoms and investigative methods that are common that are present in one but not the other.
- You can choose to do a different disorder each, so your group gets to disorder. Alternatively, you may choose to all do one and discuss you allows you to see if you all pick up the same is if if you have disassimilarities and differences.
- Your teacher might specific of these two options you do and maperform this to it.

our diso.	Other disorder:
Similarities	Di
	##
7:3 1 1 5 P E C 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
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- To assess the diagnostic procedures, complete the following table for disorder. Consider such things as:
 - How effective the method is at getting a diagnosis (does it give a some chance of misdiagnosis?)
 - How invasive the test is and, therefore, how this affects patient consurgical procedures such as biopsies)
 - How much the test will cost the NHS or no fat.ent's medical insutest is (i.e. can the test be done in the surgery or do they have a

Disorder name:	_
Investiga Legislethod:	
Advantages	Disa
710 Februarion	
73 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	
799 8 Avoitos	

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B2 Extension – Justify the potential benefits of dinvestigation methods

Find two sources of information on the diagnosis of the disorder of your based on UK healthcare. Read them, fill in the table and answer the questions of the disorder of your based on UK healthcare.

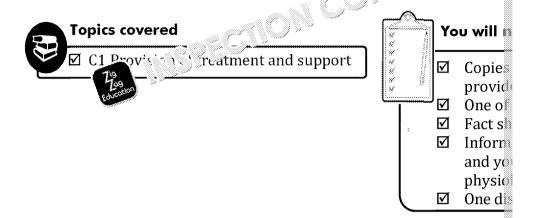
Source one	Se
Reference details:	Reference details:
Methods suggested:	Methods suggested:
Do the sources suggest different methods for inves	tigating the disorder?
	<u> </u>
What do the reasons why each source	re suggests the method
	ú
Which method do you to he most useful in o	liagnosing this conditi
79.3	

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SECTION C: EXAMINE THE TREATMENT AND SUP USERS WITH PHYSIOLOGICAL DISOR

Activity C1: Provision of treatment an



C1a: Explain the treatment and support provided for physiological

- Whole-class activity. Your teacher will give every student a card. B
- Each card names a treatment method (with additional details about the 礟 where there is a drug name, there is a brief of so Stion of what the drug
- Your teacher will then go was the class and ask you which treatment and at least one common about it:
 - poof 🐎 ညar disorders do you think this treatment or suppo
 - es it help relieve the symptoms of someone with that disco
 - What problems or side effects might be noted with this treatment
- These answers can be recorded one student can be assigned as the c 啜 record them on the whiteboard. This can be done as a spider diagram
- Then, you will have 10 minutes to research the treatment you have be B
- You will then be asked the same question again. Has your answer cha EF
- You can record the answers given by other students on the worksheet B
- Your teacher might have an open, whole "las ascussion on some of 礟 misconceptions and refine vo. a life 🔬



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Complete the following table for treatments that were discussed in action you are studying.

How it helps treat Treatment/Service Disorder(s) disorder(s)

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Treatment methods and support car

Levimir (12-hour daily 'basal' insulin)	Tresiba (24-hou caily 'basal' insulin)	
Walking stick	Capsaicin cream (blocks pain receptors in local area, e.g. joints)	
Codeine (opium-based analgesic)	Levo to a (convert, to dopamine in the brain)	
Insulin pump therapy	Wheelchair	
Softened food (to assist swall y 1 .g)	Acupuncture	

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Surgery Large-handled (radical toothbrush prostatectomy) CTION Exercise ions with a (to encourage weight speech and language loss and strengthening therapist of muscles) Hot and cold packs (applied direct to an Stairlift د rea) Methotrexate **Diabetes UK** (a disease-modifying anti-rheumatic drug) COPYRIGHT **PROTECTED** Celecoxib Dopamine agonists (aplat or skin patch) (COX-2 inhibitor)

Viagra sildena

(AKA sildenafil – to treat erectile dysfunction)

Viscosupplementation

(series of injections of hyaluronic acid into the joint)

Manne oxidase inhibitors (MAO-B inhibitors)

Pelvic floor exercises

(to strengthen sphincter muscles in bladder)

Radiotherapy

(either conventional external beam or internal radiotherapy, aka brachytherapy)

Steroid injection

(anti-inflammatory corticosteroid)

(Cal foot cream for preventing dry skin)

Chemotherapy

Transurethral resection of the prostate

(uses a thin metal wire inserted to remove pieces of the rankfile)

Cryotherapy

(inserting a probe that free 5 an area of tissue)





Injection of platelet rich plasma (PRP)	TENS (transcutaneous electrical nerve stimulation)	Laser es treat ret
Macmillan concessions	Parkinson's UK	Friend either servi visiting help wi
Care agency staff making regular visits	Residential care home	Assi env
Changes to lifestyl: (diet, extended symbol)	Statins (cholesterol-lowering medication)	Coronar (surgery
Infliximab (biological treatments, injected to stop chemicals that activate the immune system)	(jak inhibitor – inhibits signalling in the immune system)	Pan (analges
79 duration		





C1 Extension – Assess treatment and support for physic

- Using the case study you have been working on throughout these act treatments / care strategies that apply to that disorder. Write a short re those strategies. Take into account the following:
 - How effective it is at treating the symptoms the disorder
 - The stage of the disorder at which this a hand is applied
 - Costs involved (and is it a year post to the NHS or a continual of
 - Side effects of drug and alts
 - Recovery to thisks for surgical procedures
 - on pliance (i.e. will patients refuse the treatment or fail to
 - Sowerfects of the strategy (e.g. embarrassment about being seen
- Finally, give at least two reasons why you would or wouldn't use that your case study.
- Can you provide evidence (cite sources, quotes from experts or data) above?

Suggested websites

Diabetes – insulin pump versus insulin injections

1 zzed.uk/9415-insulin

Prostate cancer - prostatectomy surgery

* zzed.uk/9415-surgery

COPD - theophylline

⁴ zzed.uk#

Arthritis - complementary and alternative approaches

capacita de la comparación del comparación de la comparación de la comparación de la comparación del comparación de la c

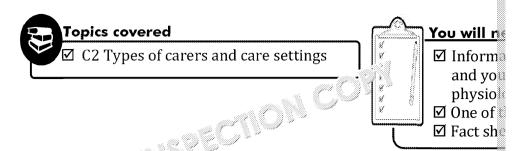
Parkinson's disease - deep brain stimulation

- nterior de la compara de la co
- 1 zzed.uk/9415-deepbrain2

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Activity C2: Types of carers and care



C2a: Type of carer and settings in general

As a group (no more than four students), discuss the professionals and of that may be involved in the care and treatment of someone with a produce a list of these.

Make sure you consider all possible care settings including those that professional setting.

Care professionals	C
	C
Education	

Discuss this in grace whole class – share thoughts. What specific disorder? Why are they needed?

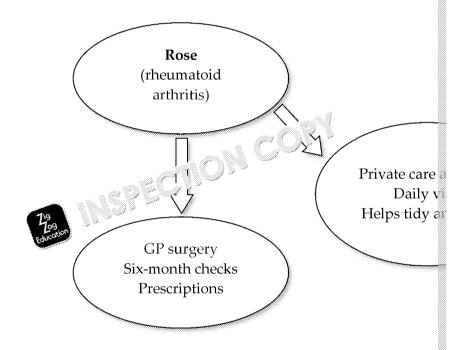
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C2b: Carers and care settings specific to the case studi

- Using the list above, work in your group with one of the case studies the relationships between the patient and the different services and procare of the person in your case study. Which settings do they attend? while there?
- Make sure you consider all of the disorders it exponed in the case students.
- When you have the end this, one person from your group will stay prepared show your findings with others. The rest of the group moved and talking as on what they have produced.
- For at least one of the disorders studied by the other groups, complete similarities and differences between the professionals they see and care

Example chart:



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Your disorder: Other disorder: Differences **Similarities**

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C2 Extension – assess professionals and care settings for disorders

Using the case study you have been working on throughout these active care settings and one professional the patient might incounter. Write a assess those settings and professionals.

For each, consider the following where relevant):

- the profession of salarise relative to other professionals involved
- ho 75 ess the reference professional or setting is in terms of time or spain a manual number of time or a larger regional hospital?)
- what barriers the service user might encounter when attending this
 e.g. mobility or mental health issues
- how effective the professional or setting might be in helping the p
- how cost effective the service is
- Finally, in your own opinion, why you think that professional or setting patient?
- Can you provide evidence (cite sources, and give quotes from experts you have said above?

Suggested websites:

Hospital inpatient clinics vs comment and anics

₾ zzed.uk/9415-clinics

Care Qual. 43 nr. assion (CQC) to access inspection reports on different zzed.uk/

For roles and responsibilities of care professionals, see content in Unit 2 Social Care) and also:

d zzed.uk/9415-roles

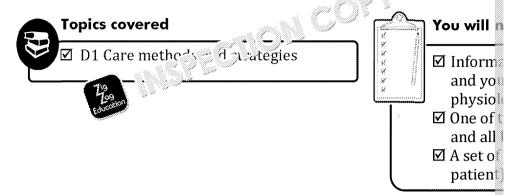


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SECTION D: DEVELOP A TREATMENT PLAN FOR SEPARATION PHYSIOLOGICAL DISORDERS TO MEET THE

Activity D1: Care methods and str



D1a: Assess the needs of an individual with a physiological disc

- Work in pairs.
- 🖙 Each pair is given one case study and the relevant fact sheets linked to
- One of you chooses to be the patient, and the other percare profession worksheets).
- When the preparation of is complete, pairs should get back together. The medical process and the patient (patient) case study.



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- INSPECTION COPY
- You are the patient named in the case study. You are going to have you approfessional. Read the case study and consider the possible issue the disorder, considering the lifestyle situation detailed in the study.
- Using the information you already have contains a sorder from your productional research you perform and some notes on the basic contained. Translate these is not a sold for terms a patient might use to dehaving with their and any lives.
- Make study can the needs ethnicity, marital status, etc.?
- Discuss the above with the other student(s) using the same case study and use this to refine your notes on the care needs.
- Use the worksheet to help you structure your notes.

Name of pa	atient:	Disorder(s):
Age	Gender:	Ethnicity:
	Care need	H might this affe
	70. 11 15 15 15 15 15 15 15 15 15 15 15 15	



Brief 2(a): The medical professional

- You are the medical professional who has been tasked with performing the patient named in the case study. You need to prepare for this.
- Using the information you already have on this disc der from previous research you perform now, write a series of actions that you think we basic care needs the patient has disc whe assorder.
- Consider the full repatient's life: their symptoms, their dail hobbi
- Make sure you take into account the specifics of the case study can to gender, ethnicity, marital status, etc.?
- Share your questions with other students who are working as profess Discuss how you could improve them questions you can add, quest better and so on.
- Complete the document below with your questions. You can then cop document, leaving space for you to write notes on what the patient say

Name of patient:		Disorder(s):
Age:	Gender:	Fth ties.
	Care need	A question that you would ask
	7-2-3 (discrete)	
	79 July 1997 Constants	

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D1b: Care strategies

Work in pairs. Students are assigned to the same roles in the same case sto D1a. The purpose is to discuss a treatment plan. They are issued with new

Brief 1(b): The patient

- Using your research, consider what the basic care needs discussed to you as that patient what a you most need resolving to give you as
- Havir Havir
- As a bonus, find one care strategy that is controversial. Maybe a drug an alternative therapy that is not effective or a treatment that uses some medicinal cannabis). Insist that you want that care strategy.
- Make sure you take into account the specifics of the case study can to gender, ethnicity, marital status, etc.?
- Remember, the care planning process is about evering the patient with a set of strategies you both agree on the care planning process is about evering the patient with a set of strategies you both agree on the care planning process is about evering the patient with a set of strategies you both agree on the care planning process is about evering the patient with a set of strategies you both agree on the care planning process is about evering the patient with a set of strategies you both agree on the care planning process.

Name of patient:		Disorder(s):
Age:	Gender:	Ethnicity:
Care s	trategy	Why you think it is helpful
Controve 700 hc. a.e.		

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Brief 2(b): The medical professional

Using your research, work out a set of care strategies that you believe will identified in D1a.

Make sure you are aware of the pros and cons of each strategy – effectives it helps relieve the symptoms or assists a patient of ercoming issues with arguments for each one that you will provide to the patient. Why do you the strategies out of the options available which was a seem of the answers to the strategies of the basic needs assessment.

Make sure ke into account the specifics of the case study – can the negender, ethnicity, marital status, etc.?

Remember, the care planning process is about empowering the patient. You a set of strategies you both agree on.

Name of patient:		Disorder(s):
Age:	Gender:	Ethnicity:
	Care strategy	Advantages
7.9 Edw		
Which strate	gies do you think will	stnericial for the patient?

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D1 Extension

As part of D1a and D1b above, you will have been researching care needs

There are many controversies surrounding care strategies. Pharmaceutical therapists, clinical staff and patients often disagree et al., he best strategies

For one of the care strategies you have a considering in your role play, sources (at least two, ideally diee a more) about that strategy showing die on how effective that a gains.

For each so complete the following tasks:

- Note the details needed for correct referencing, such as name of author published, publisher as well as the URL and date published if a websile
- Note the origin of the source is it a peer-reviewed scientific journal, a hospital web page?
- Note the author (if one is listed) or the organisation who produced the talk about this topic? What education or work experience do they have the organisation have a good reputation in that topic?
- What evidence, if any, is presented to support the ints made in the no support or can you see a logical bacis of we opinions?

Based on the above, to where fert to you trust each source to give reliable

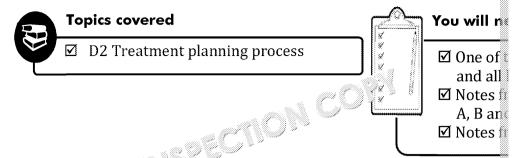




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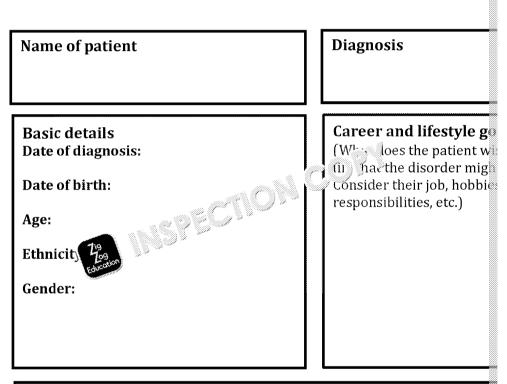


Activity D2: Treatment planning p



D2a: Init are planning

Individual work. Using the notes and information from the role plays per plan for the patient outlined in the case study you were using. You can use you or design a form of your own to complete.



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Patient history – how was this patient diagnosed?

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Zig Zag Education

Care need	Treatment or routine care suggested	Timescale o
79900		
Education		
Zig Education		

How does this treatment or routine care

Review date



D2b: Care plan review

- The plan in D2a considers the patient when they are first diagnosed. At this plan over months, or even years, circumstances may change that how effective the treatments or care strategies are.
- For example, the following may occur:
 - The symptoms of the disorder in a love (because the treatment
 - The symptoms of the macro analy get worse (because the disord treatment is the five).
 - N 79 m 1 214s may develop as the disorder progresses.
 - The ay be changes in the patient's life; for example, losing or death or relocation of a family member who might have been a care.
 - The care strategies may not be working as effectively as they show
 - The medications prescribed may have unwanted side effects the
- You need to review the treatment plan you created in D2a at least one patient that have happened since diagnosis and consider how to over
- First you need to decide when this review is taking place. This needs during which a change might happen. An initial review could be any months after diagnosis, for example, with follow-ups on an annual basearly review where treatment may still be being refined or you could in the patient's life.
- Secondly, you need to consider at least or exchange that could have hat the above ideas. Try to make the public based on the time between how the condition decrease a treatments work.
- The capacitic are mostly set to have an open outcome. You can mallives out the patients will play out, so long as they are plausible with study. For example, is Vijay's cancer treatable or does he need palliate a four times a day insulin regime or require a pump? Will Rose need Parkinson's symptoms be managed at home? The answers to question change the type of care needed.

The following role play activity will help you:

- Work in pairs. You should be using the same case study and role you
- Read the briefs given on the following worksheets.
- When the preparation work is complete, the pairs of puld get back together; the medical professional (brief 2) as face questions and the pattern in the case study.
- This role play can be a several times to represent multiple review Remember that the should be at least one change in each review (you review to changes to the care plan).

The template provided can be added to the care plan produced above for you a continuous record of patients' progress through the reviews. Alternative and the care plan produced above for your accordance of patients' progress through the reviews.

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Brief 1(c): The patient

You are the patient named in the case study. You are going to have your by your medical professional after a period of time agreed between you.

Consider the period you have agreed. What might have happened in that how the disorder might progress as well as consider on a things that could patient in that time – changes in the patient of the disorder, their home life you think the care plan is worline?

Make sure to or the specifics of the case study – can the needs chartenicity, r. status, etc.?

Have a set of notes prepared so you can respond to the medical profession the worksheet to help you.

Name of p	atient:	Disorder(s):
Age	Gender	Ethnicity
What	lifestyle changes have happen	ed? How has this a
How	have your symptoms progresse	ed? How has

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Brief 2(c): The medical professional

You are the medical professional who is reviewing the care plan for the pare period. You need to prepare for this.

Considering the time from diagnosis you have agreed. The out what mighterms of the disorder – changes in signs and symples, how treatments matthe full range of the patient's life: their contents or family.

Make sure for the specifics of the case study – can the needs chartenicity, in status, etc.?

Write a set of questions based on the care plan from D2a that look at the war For example, 'Last time we talked about using a walking stick to help you this helps you at all?' Be ready with some appropriate improvements you For example, 'Since the walking stick no longer seems to help, maybe we simply scooter?'

Produce a document with your questions, leaving space for you to write no in answer to each one.

Name of pa	tient:	Disorder(s):
Age	Gender	Et ¹ , Leity
Possible ch	nanges to patient () if the lifesty!	Questions to ask the p
C		
E		
Possible cha	anges to call suggestes	
Z Ed	Zog Document	
· · · · · · · · · · · · · · · · · · ·		

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Record of patient progress

The following template can be added to the care plan produced above for means you will have a continuous record of the patient's progress through conducted.

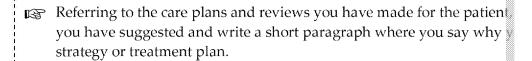
Alternatively, you can design your own care place and use

Name of patient		Date of review
Change it are need	New treatment or routine care suggested	How does this trea routine care help p with the care need
799 640cator		
		31
72.3		
Edven		

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Activity D2 Extension - Justify the care plan



Consider:

- How will the strategy help the sent
- How does the strate (co.) pare to the other available options (if
- Why is this say better for the patient because of their lifestyle
- a change this strategy in one of the reviews? Why? If not, w

To support your reasoning, provide at least one citation of a source of each of the above questions.

Suggested websites

Review the sources used in C1 Extension.

Person-centred care (empowerment):

zzed.uk/9415-empowerment

Alternative therapies:

🐧 zzed.uk/9415-altcancertherapy





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Answers

Introductory activity

Activity I1

For most of these terms there will be variant definitions, by a sthe student's an outlined below, they should be fine. Stress the importance of sang good technical keywood.

Signs

Something that a medical consistent measure or notice on a patient where blood present the blood glucose, body mass, rashes. Sometimes an object measure.

Symptoms

Something that a patient reports to a medical professional in the course of diagnonauseous, pain, blurred vision, weight gain/loss, thirst, mood swings.

Note, it is common for students not to be aware there is a difference between signs and signs use the term 'symptoms' to refer to both.

Venepuncture

A method of extracting a sample of blood from the veins of a patient for medical practice, this is more likely to be using something like the Vacutainer system – a sealed tubes containing specific anticoagulants (e.g. Heparin, EDTA) or other prequirements of different tests.

Auscultation

A general term for the practice of using a stethoscope to lister to a patient's lung disorders. Diagnosis is based on speed, strength and you of heartbeat and sounds in the lungs when the patient breather.

Sphygmomanometer

A device used to measure is a sture. More commonly known now as a blood pressure in the commonly known now as a blood pressure is true to measure pressure. Blocks blood flow into the forearm pressure is a stured as two pressure values – systolic and diastolic.

Physiological disorder

A disorder in which one or more of the cells, tissues, organs or systems of the boeffects. They can be linked to genetic mutations, environmental effects, lifestyle often require long-term care, e.g. diabetes, heart disease, asthma, Parkinson's, care

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Section A activities

Activity A1a

Case study	Name of disorder	Physiological cause
Meera	Type 1 diabetes m l' a.	Dame to the pancreas / islets of at the pancreas, leading to little or no insulin production
72° as to be desired to	Rheumatoid arthritis	Inflammation and fluid retention is the synovial joints
Rose	Osteoarthritis	Damage to the cartilage cells in one or more joints due to long-term wear and tear. Leads to inflammation, tenderness and pair in the affected area.
	Chronic obstructive pulmonary disease	Damage to and inflammation in the lungs
Vijay	Prostate cancer	Uncontrolled cell growth leading to enlargement (tumour) of the prostate gland
	Parkinson's disease	Damage to cell in the dopamine- producing the antia nigra, part of the miss ain at the top of the brain seem
Rex	Łóronary heart disease	Reduced blood supply to the heart caused by atherosclerosis (narrowing of the arteries) leading to a reduced oxygen and glucose supply to the cardiac muscle

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Activity A1b

This activity has a broad range of potential answers to discuss, and we cannot ho here. Some examples are given for each disorder but the students could potential are not covered here.

Name of disorder	Physical impact	Me nact	Emotiona
Type 1 die es mel 75 es	P:5 a. Land low 5" A glucose (hyperglycaemia and hypoglycaemia)	Sy worns of both fow and high blood glucose include confusion. Potential risk of dementia in long term if glucose not controlled.	Concerns a change to li Risk of assimodern di are going to young as the 1900s.
Rheumatoid arthritis Osteoarthritis	Difficulty moving due to pain and stiffness of joints	Fine motor control can be affected, impacting some tasks such as writing or computer use.	Feelings of linked to in do activitie used to enj
Osteoartnritis		Fatigue.	,
COPD	Breathing difficulties	Reduced ability to exercise and take part in normal activities leads to potent at ental	Feelings of linked to in do activities used to enj
Prostato 79 er	Difference or weak flow)	Mental health issues linked to loss of sexual function	Fear of deareputation cancer being terminal dis
Parkinson's disease	Tremor and slow movement causing difficulties in day-to- day tasks such as brushing teeth or eating food	Problems with memory and focus	Feelings of linked to in do activitie used to enj
Coronary heart disease	Angina – pains in the chest during exertion Heart attack	Issues linked to complicated treatment (multiple drugs and lifestyle change)	Emotional experiencionattack
73 Colonia Col			

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A1 – Extension

Example celebrities they could consider include: Michael J Fox (Parkinson's), Mol Berry (type 1 diabetes), Kylie Minogue (breast cancer), Missy Elliot (Graves' disease (fibromyalgia), Sir Steve Redgrave (type 2 diabetes) and Venus Williams (Sjögren

There are many websites available that discuss these celel and and their condition features on famous people who suffer from the di gas #12, support.

This task will help students un 🚉 star 1) we about the potential impacts and, m 🕼 impacts can be overcon : 4 / Imple, they can see how someone such as Steve Olympic go da. Aprile having type 2 diabetes or how the diagnosis of Parkin mself to voice work (e.g. Stuart Little) and finally retiring from having to re charity work for Parkinson's.

Activity A2

You might expect more detail on the causes here, maybe expanding into how the

Here again you need to be aware of the difference between a cause and a risk fact able to link the risk factors to the causes (for example, smoking linked to the dam

Note, there may be a lot of overlap between some lifestyle choice factors, dietary For example, links between obesity and diet/exercise choices. This can be a good students disagree about where some risk factors should be risked.

There follow some examples for the disordar view. Excase study.

Name of disorder: Tyran a management of the Name of disorder in the Name of th	lame of service user

Physiolog 19 1s 1 Asorder

🎱 ncreas / islets of Langerhans / insulin-producing/β cells of the 🏗 Damage to insulin production.

Insulin is responsible for the movement of glucose from the blood into the body accumulate in the blood, and the cells will be unable to produce energy.

Risk factors	
Inherited/genetic factors	Lifest
Family history of type 1 diabetes	N/A – unlike for type
• Race – it is more common in white/Caucasian ethnic	affecting the onset of
groups	make this misconcept
Diet factors	Envir
N/A – unlike for type 2, there are no dietary factors	ાં eoretical link to a v
affecting the onset of this disorder (students may and e)	that causes the immu
this misconception)	destroying them



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Physiological cause of disorder		
Swelling and inflammation of the synovial joints (including those in the knees and fingers		
autoimmune response. This swelling leads to pain and lack of mobility in those joints and		
lead to more damage to tissues surrounding the joints, including the bone.		
Risk Factors		
Inherited/genetic factors	Lifestyle choice	

Name of service user: Rose

Name of disorder: rheumatoid arthritis

	Inherited/genetic factors	Lifestyle choice
•	Family history – one or more family members with	Smoking
	the condition	
•	More common in females than males – possible link	
	to oestrogen is being investigated and it is linked	
	low testosterone in males	
	Diet factors	Environmental
N/A	A	Age – more likely to occur in th
	7.03 in a second	but can happen at any age

Name of disorder: osteoarthritis	Name of service user: Rose
Physiological cause of disorder	
Wear and tear on the hyaline cartilage cells that coat the e	nds of the joints. This leads to th
cushioning between the ends of the joints, leading to pain	and inflammation as the two bo
other.	
Risk fa	ctors

Inherited/genetic factors	Lifestyle choice	
Family history – one or more family members with	Overuse of joints – due to p	
the condition	activities (e.g. dance, martia	
More common in females than males	reஎ ்த lot of squatting or	
	The Sty – putting more stra	
Diet factors	Environmental	
N/A – though there is a link to obesity (style factors)	• Age – over 50, due to long-t	
so an unhealthy diet is <u>als</u> o lin's so an unhealthy diet is also lines so an unhealthy diet is also also also also also also also als	Joint injury or trauma	
7.0	Other medical conditions in	
Education	arthritis	







Uncontrolled growth of cells in the prostate gland (tumour) leading to incre the cancer metastasising to other areas of the body. Growth can cause lack excretory systems including erectile dysfunction and difficulty with urination Risk factors Inherited/genetic factors I Family history – a brother or father who are el 13 Link to obesity prostate cancer before the age prostate cancer before the age have been show likelihood of it developing Ethnicity – market a formation men of African ear من من arican descent than other groups Diet factors There is evidence that a diet high in calcium may be linked to a higher incidence of prostate cancer Age – men over An unbalanced diet (linked to obesity in lifestyle develop prostate factors) Name of disorder: chronic obstructive pulmonary Name of service disorder Physiological cause of disorder The lungs become inflamed and damaged. This causes narrowing of airwa breathing. The inflammation and damage are linked to chemical damage to

Name of service

Name of disorder: Prostate cancer

Physiological cause of disorder

sk ra	ectors
 Higher chance of de ipir of D if the patient has a relative of de condition A presents in older patients (middle-agus) +) 1 in 100 people has a genetic mutation (alpha-1-anti trypsin deficiency) that makes them more prone to developing COPD at an early age (35+) 	 Smoking – r a much grea the patient a Risk from s exposure to environmen
Diet factors N/A	 Exposure to in an indust and fumes, welding fur These risks Air pollution

factors below are linked to this. For example, the chemicals in cigarette sm

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damage the lung tissue.

Name of disorder: Parkison's disease Physiological cause of disorder

Name of service user

Loss of function in the substantia nigra, a part of the midbrain responsible for proneurotransmitter, dopamine. Dopamine is involved in the fine control of muscle linked to lack of an ability to exert this control. This leads to the tremors that are

disorder.

□ Zsκ factors		
 Inherited/ger in the second of developing of the only factor. Males have a higher chance of developing Parkinson's than females. Possibly linked to higher probability of head trauma or protective effect of oestrogen. Low oestrogen. In women who are postmenopausal (without HRT) or who have undergone hysterectomy there is a higher risk. 	Lifesty N/A	
Diet factors	Envir	
Low levels of vitamin B folate.	 Advancing age – ageing; the decay progresses over the symptoms until the Exposure to agricular herbicides) Head trauma – posubstantia nigra 	

Name of (19 r:) waary heart disease

Name of service user

Physiologi disorder

A build-up of fatty deposits (atheroma) in the coronary arteries, a process called restriction of the blood supply to the heart, depriving cardiac muscles of oxygen. This puts more strain on the heart itself as well as the lungs (increased heart and for lack of supply) and creates a risk of myocardial infarction (heart attack) where

Risk factors	
Inherited/genetic factors	Lifest
Family history of heart disease – higher risk of a patient	Smoking
developing this if they have a male family member under	Obesity
55 or a female relative under 65 with the condition	 Lack of regular ex
Diet factors	Envir
High serum cholesterol (though the link between	Link to diabetes –
cholesterol in the diet and that in the serum is	Diabetics have a l
controversial)	them. High blood
	of blood vessel w
	atherosclerosis.
790	High blood press

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Activity A3

The students should have little trouble identifying the signs and symptoms from amount of research (e.g. on zzed.uk/9415-nhs) will help them with descriptions. Tworking out how they link to the cause.

It is worth noting the situations where there are similar to points with different rheumatoid arthritis and osteoarthritis, where paid art, welling have different up

Some possible answers for each some outlined below.

Sign 1990 1ptom	Description of sign or symptom	How is this
Excessive urination (Type 1 diabetes mellitus) Symptom	Going to the toilet more than usual (sometimes a lot more than usual). Urine is typically 'watery' with little or no colour.	The high bloom from the body restore the note that is kidneys into
Extreme thirst (Type 1 diabetes mellitus) Symptom	Patient reports feeling very thirsty all the time and no amount of drinking can relieve it.	Dehydration the tissues in
Fatigue (feeling very tired) (Type 1 diabetes mellitus) Symptom	Patient reports feeling very tired all the time, unable to motivate themselves.	Body is unab patient's diet
Weight loss (Type 1 diabetes mellitus) Symptom	Patint for a nances rapid veignaloss, despite eating normally.	Body is unable patient's diet survive, it must rapid breakde build-up of to urine.
A persistent cough (COPD) Symptom	The patient reports a cough that lasts more than three weeks. Coughing, especially first thing in the morning or at night.	Inflammation lungs causes
Persistent chest infections (COPD) Symptom	Patient presents multiple times with chest infection symptoms.	Believed to be damaging the the lungs from treatments pointments pointments further.
Breathlessness (COPD) Symptom	Patient has problem to thing - breath is a pi or at more round are would be normal at	Blocked/restriof alveoli. This means lo exchange and the same leve expel carbon
Swollen at knuckles (rheumatoid arthritis) Symptom	The patient's knuckles become swollen and painful. This swelling is warm and includes redness.	Linked to the joints. As the inflammation severe deform

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Sign or symptom	Description of sign or symptom	How is this sign or symptom linked to the physiological cause?
Pain in the joints (rheumatoid arthritis) <i>Symptom</i>	Pain in one or more joints – usually starting with the small joints in the hands or feet and often symmetrically (both sides of the body at the same time).	Swelling in the synovial pressure on the pain resijoint.
Pain in the joints – usually hips or knees (osteoarthritis) <i>Symptom</i>	Patient has persistent pain in one or more joints, made worse by movement.	Lack of cartilage in the between the two bones pain and inflammation
Swollen joints (osteoarthritis) Symptom	Joints appear larger than normand tender to the touch	fluid movement into
Grating or cracking sound on movement (osteoarthritis) Symptom	Alsc ' ' 'n Jecrepitus. The 1. Jecropitus make audible rioises when moved.	The effect of the two edijoint being in direct conthe lubricating hyaline
Limited range of movement (osteoarthritis and rheumatoid arthritis) Symptom	Patient is unable to demonstrate a full range of movement in the affected joint. For example, cannot lift arm above shoulder or bend knee fully.	Swelling and pain in the limits physical movem patient unwilling to mo
Stiff and inflexible muscles (osteoarthritis) Symptom	Patient reports difficulty in moving.	Muscles around affected stiffen due to lack of use other joints; for examp weight on other knee.
Tremor (Parkinson's disease) Symptom	A persistent trembling. Usually starts in one finger on one side of the body but soon spreads to whole hand. Usually asymmetric (limited to one sid of the body).	Lack of the neurotrans: which is linked to fine
Slow movement (Parkinson's disease) Symptom	Patient of Aron 3 and very slow 1 and a short their limbs. Also win as bradykinesia.	Linked to lack of dopan motor function) but also naturally take more care tremor in order to avoid
Pain in chest (angina) (coronary heart disease) Symptom	Mild: A feeling similar to indigestion. More severe: a heavy feeling of tightness that may spread to arms, neck, back, jaw or stomach. Triggered by exercising or during stress.	Reduced blood supply blocked coronary arter
Heart palpitations (coronary heart disease) Symptom (but can also be a sign if doctor notices with stethoscope)	A heartbeat that suddenly becomes more noticeable. Increased heart rate (tachycardia).	Various causes but convalve problems (atrial the heart compensating PROTE
Breathlessness (coronary heart disease) Symptom	Difficulty breathing. This worse with exerci	The art is not pumping ouilds up in the lungs, breathing.
Urinating blood (prostate cancer) Symptom	The pears pink or red. Continued on next page	The tumour is causing urinary tract and the flood damaging the tissues of



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Sign or symptom	Description of sign or symptom	How is this sign or symptom linked to the physiological cause?
A fasting blood glucose over 7mmol/L (diabetes mellitus) Sign	The doctor has asked the patient to fast for 9–12 hours (usually overnight) and repeated a random blood glucose test. This has come out as higher than 7mmol/L and may be unchanged from previous test.	If the patient is capable of metabolism, blood gluck significantly with an over glucose in the blood is a cells to use to make encoration a sign that either there are the or that insulin is ineffect.
Problems with urination (prostate cancer) Symptom	Patient either experiences restricted flow of urine or has a constant urge to go to the to:15.	Restricted flow caused prostate impeding uring put pressure on the accreased need to uring
Serum sample show charger levels of prostate spi antigens (prostate cancer) Sign	Doctor performs a blood test which is checked for PSA and shows an elevated level.	PSA is measured in ng/s expressed by normal ass the prostate. An elevate prostate may be cancero counts as elevated varie test is not necessarily co be said that any value as 'elevated' but this has so men with lower levels to have prostate cancer.
MRI scan shows no sign of vascular damage or brain damage to explain patient's tremors (Parkinson's disease) Sign	The MRI scan uses magnetic resonance to visualise the area of the body the doctor is interested in and check for abnormalities. A 3D computerised image can be produced to help diagnosis.	This is a negative test in some of the other possible disorder. If none of the are present there is a his idiopathic Parkinson's.
Peak flow is lower than expected for the patient's age, height and gender (COPD) Sign	The patient is asked to be the as hard as the an are peak flow in many is recorded. This test is repeated three times and the highest value recorded.	normal volume of the particle
Blood pressure higher than 140/90 (coronary heart disease) Sign	Doctor uses a sphygmomanometer to measure systolic and diastolic blood pressure and it comes out as 'high' on a blood pressure chart (usually higher than 140/90).	Blood pressure is an ind wrong with the circulat atherosclerosis and/or a elasticity in the blood v
Serum tests positive for rheumatoid factor (RF) (rheumatoid arthritis) Sign	Doctor takes a blood sample via venepuncture and sends it to a lab for testing for RF.	A positive test for RF is patients with rheumato Therefore, a strong indication in the strong in
Chest pains / angina (coronary heart disease) Symptom	Patient reports a 'A', of tightness Ad A A or a feeling of A a feeling of the service of the ser	Blocked coronary arterial supply / oxygen / glucos meaning less efficient for when exerting.



Sign or symptom	Description of sign or symptom	How is this sign or symptom linked to the physiological cause?
Erectile dysfunction (prostate cancer) Symptom	Patient reports issues with sexual performance, specifically achieving and maintaining an erection.	Issues linked to the growth of the analysis and restriction of the blood penis. Can also be linked to discussed by high blood gives
Ketones in the urine (diabetes mellitus) Sign	Doctor performs a urine test using a chemically treated dipstick specific to ketone	The presence of ketone the urine is a sign of ket when the body has no was ing energy (in the worked in the blood) and rapidly, creating toxic

(ketones).









Section B activities

Activity B1

What methods can you use to investigate and diagnose physiological disorders

This activity is a general, whole-class initial assessment to the lish what the stude they will all know something of the process of die no, or am personal experience teacher, it is your role to refine their idea (conceptions and fill in gaps) come up with include:

- y vescribing the symptoms, asking about alcohol/tobacco use know any family members with long-term conditions
- Basic cardiovascular measurements heart rate, blood pressure, using a stetle
- Basic respiratory system measurements breathing rate, peak flow, using a (auscultation)
- Urine tests glucose, ketones, proteins (albumin)
- Blood tests full blood count (FBC), blood glucose, liver function, kidney fur
- Imaging methods MRI, CT, PET, X-ray, etc.

Common misconceptions include assuming there is only one type of blood/urine types of imaging method – for example, not knowing the difference between an M

This exercise might encourage students to open up about experiences with doctor their family have had. Obviously, it is necessary here to be sensitive to these stor feel pressured to share while also highlighting that those personal experiences are how disorders are diagnosed.





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Activity B2a

This activity should link the discussions in B1 to the case studies and consider how symptoms presented to the final diagnosis using the tools discussed in B1. Below range of investigation methods used in the case studies that students might come

Disorder:		
Investigation method	iption	How
Urir tarcatas	Using a chemically treated 'dipstick' that is dipped into a sample of urine to indicate presence of glucose, ketones and protein in the urine.	The press protein is somethin damage and/or ke diabetes
Blood glucose test	A drop of blood is applied to an electronic meter (or to an enzyme-treated strip that is inserted into the meter). Gives a reading of blood glucose in mmol/L.	Normal I 3.5–6 mn range is a Anything hypergly untreated Kits are a home mo
Hi education	venepuncture and sent to a laboratory. The blood is tested for the level of glycated haemoglobin. This is the percentage of haemoglobin protein molecules that have glucose molecules attached to them.	Is indicate protein galinked to diabetes. itself hard the kidnes because in when the However the blood month per whether single poor just and diagnosis monitorii
Fasting blood glucose test	After a blood glucose test, the patient is told to fast for a period (usual, 12 hours / next morning) before a fot a cest is performed	If the pat glucose i noted in be seen to the time of diabet A value of fasting is

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Disorder:			
Investigation method	Description	How does this help diagnose the disorder?	
C-peptide test	A blood sample is taken and sent to a laboratory for testing. This test looks for the levels of a protein chain (c-peptide) linked to the manufacture of insulin in the β cells of the islets of Langerhans in the pancreas.	If c-peptide is absent and a unusually low level patient has type 1 di unable to produce if c-peptide levels a indicates they can pathat insulin is inefferesistance and, the adiabetes.	
MRI	Uses strong magnetic fields and radio waves to visualise tissues of the od ite information is translate at 31 image using computation.	Shows up any abnormal including tumours blood vessels and by	
X-ray 73	Us a fradiation to visualise tissues. Tost useful for 'hard tissue' (such as bone) but can be used to see other things.	Can show damage sosteoarthritis. Tumours and infects show up on a ches	
Ultrasound	Uses ultrasound radiation to create an image of soft tissues in the body.	Allows visualisation (organs, tissues) and spot abnormalities pregnancy but has diagnoses, especial methods are not avacompliance or cost	
Patient history	Doctor talks to the patient, asking questions about their lifestyle and family situation.	Used to identify posinight help the document what the symptoms case of two or more symptoms, this mix towards one option.	
Physical examinati	Docto in a me patient's body – oc in a rashes, injuries, deformations, overment issues and similar.	Can spot a specific s might help distings disorders with similalso help diagnose c Parkinson's or osteo examining the way	
Biopsy	A tissue sample is taken from a suspected tumour and sent to a laboratory for analysis.	Can determine who tumour and, if so, we malignant. Can also aggressive it is base seen to be growing	

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Case Studies with Activitie

Activity B2b

Comparison is one of the more difficult BTEC criteria to do at pass level, and mark describing, or even just identifying, when faced with it. This activity is designed is expected in this task. Some example similarities and differences for different discontinuous control of the control of t

Type 1 diabetes	Parkin
Similarities	Di
Both condition in tient history being taken. The House stands have genetic link which can be presupport.	Existence of a definitive tes methods to measure blood high, it is very likely it is or Parkinson's can only be dia possible causes of Parkinso with levodopa to show im

Rheumatoid arthritis	Ost
Similarities	Di
Both might involve the patient being asked to	Rheumatoid arthritis can l
perform simple tasks in order to establish extent of	tests to check for specific r
problem and what basic needs the patient might	example, c-reactive protei
have.	example, c-reactive protein Osteoarthritis cannot.

Rheumatoid arthritis	Parkin
Similarities	Di
Both involve the patient being asked to some basic tasks to establish the way in the mobility and locomotic is at	arkinson's diagnosis can (levodopa) to see whether confirm idiopathic Parkins this way.

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The second half of this exercise is aimed at the merit and distinction criteria on the work out possible advantages and disadvantages to the methods used to be at a lemerit. Adding in more discussion of the evidence behind their reasoning for using presenting a conclusion based on this evidence and correctly citing sources to show from turns this into a distinction level (justification).

Example answers are shown below:

Gives an immediate result (less than 30 second in some devices) showing what the part of therefore, up-to-date into a training; the training a training and up-to-date into a training a traini	e but the bloos ago.
patient. Gives an immediate result (less than 30 second in some devices) showing what the patient blood glucose is at the more and string; therefore, up-to-depend on the patient squeam of the patient square patient. Gives an immediate result (less than 30 second in some devices) showing what the patient square	
Many modern monitors record data that can be transferred to a computer for analysis of trends. days/weeks/	This lear the parm (bruing-term non-conish about al infection single particular tiple testingle particular tiple tiple tiple testingle particular tiple t
Gives an 'average' of blood glucose over three months, thereby allowing an idea of overall control and trends rather than an immediate 'in the now' value. Requires blood or fingerprice with needle control and trends rather than an immediate 'in the now' value. f fingerprice venerating the uncomfort with needle required is not test. This meaning the painful.	k. re requi table fo

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	Advantages	Disadvantages
X-rays (osteoarthritis and rheumatoid arthritis)	Relatively cheap compared to other imaging methods such as MRI. Gives a visualisation of the joint. Can be used to show the patient what the exact issue is when discussing treatment options.	Does not give a direct diagnosmerely allows elimination of pain and swelling. Has some health risks due to patients are limited as to the procedures they may have per
MRI (Parkinson's disease, osteoarthritis, prostate cancer)	Gives a clear, 3D, computer-generated image of the structures (organs and tissues) within the area scanned. Can be used the specific example, while looking for example, while looking for example, another problem may be observed.	One of the more expensive in such, is often used sparingly the equipment is noisy (patient headphones inside the machinal patients with claustrophobiant this procedure due to it being In Parkinson's, it is used to elegate the rather than give a direct diagonal content.
Tumour grading (prostate cancer)	Allows an easy assessment of the tumour that can be understood by the patient. Standardised guidelines (published in medical	Only four categories – while stallow much differentiation or (grade 1.5, for example). Subjective. Despite standards
Tumc (prost	textbooks) are used to make the assessment as repeatable and standardised as possible.	still largely subjective and, the user bias. Training needed to







Section C activities

Activity C1

Which question is asked of which students can be determined by student ability a As a teacher, you can choose to ask more than one question of each student if you sizes, for example). You can also spread this activity out the interest number of sessions in a reasonable time. For example, you can make the interest arter and/o

These are just some examples of the a. s years that students might come up with for

Treati 79	Disorder	How it helps	
Levimir	Type 1 diabetes mellitus	12 hours of long-term basal insulin effect	Overdos Patient c
Tresiba	Type 1 diabetes mellitus	24 hours of long-term basal insulin effect	Overdos Patient c
Novorapid	Type 1 diabetes mellitus	Lowers blood glucose within 10 minutes of injection	Overdos Patient c
Walking stick	Rheumatoid arthritis / osteoarthritis	Assists mobility	Possible used
Capsaicin cream	Rheumatoid arthritis / osteoarthritis	Pain relief in a targeted area	Can irrit
Naproxen	Rheumatoid arthritis / ostor	i-i. ammatory pain	Indigest ears
Code Zog	arthritis / osteoarthritis	Analgesic pain relief	Addictiv
Levodopa	Parkinson's disease	Is converted to dopamine when digested	Mild na blurred heartbu
Ibuprofen	Rheumatoid arthritis / osteoarthritis	Anti-inflammatory pain relief	Potentia
Insulin pump therapy	Type 1 diabetes mellitus	Gives constant basal level of insulin and can be triggered to release more (bolus) when a button is pressed	Overuse Possible insertion
Wheelchair	Rheumatoid arthritis) - 3515ts mobility	Possible used
High-ini 799 ultrasou	Prostate cancer	Uses ultrasound to heat up a targeted area of tissue causing cell death	Side effe dysfunc (channel system)
Softened food	Parkinson's disease	Assists patients who have trouble chewing and swallowing	Can be r Needs n

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Treatment	Disorder	How it helps	Issues / Side effec
Acupuncture	Rheumatoid arthritis / osteoarthritis	Holistic therapy for pain relief	Not covered by N
Physiotherapy	Osteoarthritis	Exercises to help strengthen muscles around a joint in order to offset effects of osteoarthritis	Patient compliance carry out exercises
Surgery (radical prostectomy)	Prostate cancer	Removes prosta	If cancer has metas work. Risks of sus more erectile and as as patient unable to
Large-handled toothbrush	Parkinson's discher Control of the C	Easier to handle and use by those with tremor or stiff fingers	None
Mobility scooter	Rheumatoid arthritis / osteoarthritis	Mobility assistance	Possible feeling of used
Speech therapy	Parkinson's disease	Speech problems are a common symptom of Parkinson's. Therapy helps to retain speech.	Patient compliance difficult
Exercise	Type 1 diabetes mellitus Rheumatoid arthritis / osteoarthritis Coronary heart disease	Maintains a healthy body mass which is helpful for improving control (diabetes). Strengthens mu is around to a fact to a fact to a steep art to steep around to a fact to a fac	Patient compliances significant lifestyle
Deep brain stimulation	79 Jugan Son's disease	Electrodes implanted into substantia nigra used to stimulate dopamine production	Patient compliance
Stairlift	Rheumatoid arthritis / osteoarthritis	Assists mobility in patient's own home	Requires significant service user's house
Hot and cold packs	Rheumatoid arthritis / osteoarthritis	Relieves pain and inflammation in area applied	Care needed to avo
Healthy diet	Type 1 diabetes mellitus Coronary heart disease	Improves blood glucose levels by reducing sugars and increasing long-action carbohydrates	Patient compliance lifestyle change on
Diabetes UK	Type 1 diaho	Provides of and help to provide and some and support. Also legal and political help (e.g. prescription charges).	None

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Treatment	Disorder	How it helps	Issues / Side effe
Methotrexate	Rheumatoid arthritis	Blocks the receptors for the immune chemokines (chemicals that cause inflammation)	Can cause nausea, diarrhoea and oth
Tramadol	Rheumatoid arthritis / osteoarthritis	Anti-inflammatory pain relief	Headache, dizzines anxiety, stomach p
Celecoxib	Rheumatoid/ osteoarthritis	Anti-inflammatory pain relief	Headache, abdom
Dopamine agonists	Parkinson's disease	Stimulate + di + irrof	Drowsiness, nausc mouth, dizziness, can cause confusion psychosis.
Arthritis Care UK	The	Provides social and intellectual support and help to patients	None
Viagra	Parkinson's disease Type 1 diabetes mellitus Prostate cancer	Complications of disorders can include impotence. This helps to restore erectile function.	Possible cardiovas high blood pressum
Viscosupplementa tion	Osteoarthritis	Restores hyaline cartilage to joint	Warmth, pain, stiff swelling around to on affected joint. Financea.
Duodopa	Parkinson's disease	A gel that is pumped into the body using a small pump device. Duodone then converted or Dopor and Dopor an	Blocked or dislocation in Inflammation or in tube, leading to switch the stomach pain, nautorisening movernmovement).
Monoamine oxidase inhibitors	709 asc is disease	Helps the body make better use of the dopamine it produces naturally	Side effects include in mood or sleep pa in blood pressure
Pelvic floor exercises	Parkinson's disease Prostate cancer	Prevent incontinence	Patient compliance exercises properly
Catechol-O- methyltransferase inhibitors	Parkinson's disease	Inhibit the breakdown of levodopa in the body, thereby prolonging its effect.	Diarrhoea, vivid de hallucinations, dro discoloration and
Radiotherapy	Prostate cancer	Uses radiation to kill cancer cells	Dryness, itching, kai fatigue
Steroid injection	Osteoarthritis	Strong anti-inflammatory to reduce swelling in region injected	Can only be perfost of times per joint
Allpressin	Type 1 diabetes mellitus	Foot crear the program and the crear to	None



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Treatment	Disorder	How it helps	Issues / Side effects
Chemotherapy	Prostate cancer	Drugs to attack and destroy cancer cells	Many side effects, indicate loss, infection, bruin nausea/vomiting
Transurethral resection of the prostate	Uses a thin metal wire inserted to remove parts of the prostate	Relieves pressure on urinary tract, allowing free flow of urine to be restored	Requires a general has associated risk
Hormone therapy	Prostate cancer	Used in conjunction with other treatments such as radiotherapy. Slow growth of and color have a betal chance of working.	Loss of sex drive, that flushes, sweat breast growth
DAFNE	79 taugeton pe 1 diabetes mellitus	Training course to teach better control of blood glucose by calculating doses of insulin to suit carbohydrate value of food	Week-long course Some patients do attend.
Cryotherapy	Prostate cancer	Uses extreme cold to directly kill cancer cells; targeted to the cancer cells specifically	Nerve irritation, rectingling in the skir
Injection of platelet-rich plasma	Osteoarthritis	Promotes cartilage repair to relieve symptoms	Evidence for effication also cause information at the injudamage.
TENS	Rheumatoid arthritis / osteoarthritis	Uses electrical impulacross the slin Sreitle	Requires specialis
Shock absorbing footwear and support	Rheum ()	Repaces strain on damaged joints – preventing further damage from use	Can be an addition patient
Macmillan cancer support	Prostate cancer	Fundraises to pay for nursing support, specifically palliative care	None
Parkinson's UK	Parkinson's disease	Provides social and intellectual support and help to patients	None
Laser eye surgery to treat retinopathy	Type 1 diabetes mellitus	Diabetic eye disease is a form of retinopathy caused by damage to blood vessels in the retina.	Risk of additional to the laser
Friend or relative assisting with care	Parkinson's Rheumatoid arthritis / osteoarthriti	Provide care w'ere needed, one environment where patient may be more comfortable	Care can be a full- on the care needs



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Treatment	Disorder	How it helps	Issues / Side effects
Care agency staff making regular visits	Parkinson's Rheumatoid arthritis / osteoarthritis Later stages of prostate cancer	Provide care where needed in a home environment where patient may be more comfortable	Can be expensive social care budget
Residential care home	Parkinson's Rheumatoid arthritis / osteoarthritis Later stages of prostate cancer	Provides care, with professional car as 4 hours	Removes patient for environment and position family. Must be paid for entire the local social care.
Changes to lifestyle (diet, exercise, smoking cessation)	COPD Coronary heart disease	Can prevent or slow progression of disorder and even reverse it in some cases	Patient compliance diet, exercise and s habits are hard to a
Statins	Coronary heart disease (currently prescribed mostly to people over the age of 40)	Reduce serum cholesterol	Side effects include throat, runny or be headaches, muscle increased blood gl
Coronary angioplasty	Coronary heart disease	Surgical procedure to widen blocked or narrowed arteries	Risks linked to sur attack, damage to reaction to the cor damage to the skir
Infliximab	Rheumatoid arthritis	A biological treatm as used to black in paths control the in a treatment. A biological treatment as a second control treatment and the control treatment.	Usually mild side c skin reaction to the infections, nausea,
Tofacitinib	Rheumatoid arthritis	A jak inhibitor, usually given to patients who cannot use other treatments. Blocks chemokines (chemicals that activate the immune system).	Only recently appoints NHS (2017). No side effects lister side effects may not established through system at this time.
Paracetamol	Rheumatoid arthritis / osteoarthritis	Relieves pain by blocking pain receptors	Can cause severe la overdose





Activity C1 Extension

For this activity, students are looking for two things linked to the care strategies – them and how useful/effective they are at dealing with the issue they are intended

The problems include physical, intellectual, emotional and social issues connected these are outlined above – side effects of drugs, feelings of a laisolation or ostratemobility equipment, etc. Students should be goin out as a and deeper on these latthese problems and why they exist and have a care strategies might be able to

For the effectiveness of it is a gues, students should be comparing the different terms of house the work for the case study. For example, how well does ibute naproxen for the in osteoarthritis? Why might some bronchodilators not be his depression; if he is on antidepressants they may not work.)

To be working at distinction level, the students need to be balancing the problems their benefits and drawing a conclusion in which they justify the use of a selection. They also need to support this with citations of evidence that backs up their conclusions.

Activity C2a

Students should produce a list of care settings and professionals, which might inc

GP, consultant / named specialist doctor (e.g. neurologist, diabetologist), nurse, namurse (e.g. Macmillan nurse, diabetes specialist nurse), GP (e.g. gery, informal care) hospital ward, outpatient clinic, community pharm (e.g. consultant) patient's own has a consultant of the community pharm (e.g. gery, informal care).

Activity C2b

Some examplarities and differences between professionals and care settings

Diabetes and osteoarthritis:

- Type 1 diabetes will always require a referral to a consultant as soon as a dia will only be referred if it is serious.
- Both require long-term access to supplies of drugs prescribed through their community pharmacy.

Prostate cancer and diabetes:

- Diabetes is a lifelong condition that will require access to treatment services.
 Prostate cancer, while sometimes terminal, has potential to go into remission professionals or services.
- Can also consider differences between formal and in an ill carers and care sed differences between home care and residentia of the hared care.



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Activity C2 Extension

This activity will allow the students to assess and justify the care settings for the As for previous activities, to assess they need to establish strengths and weakness and settings. For example:

The strengths of a GP are the broad knowledge of all concess, allowing them to services by narrowing down possibilities. Their v sak as is that they do not have conditions and are not necessarily up to account the most recent research into specific

A consultant, on the ctl sign factorial specialist knowledge of their particular area ar thew it impacts diagnosis and treatment of that disorder. If of them avaluated and they have limitations in cases involving other disorders.

A community outpatient clinic is more accessible than a hospital-based clinic; mo the clinic run by a consultant or specialist nurse in their local GP surgery than the may be a distance away for many). However, the logistics of setting up such a se especially consultants) might be more problematic and the GP surgery will not have services (such as laboratories, radiology equipment) as the hospital.

To justify, the students should be linking the above assessment back to their case (with appropriate evidence cited) why their patient would benefit from that setting of conclusions being drawn from the arguments presented should also be seen. Fig. (Jones et al., 2018) has shown that patients are more likely to attend a service base pharmacy than a hospital. The article states that the most common reason given l public transport to and from the hospital. Rose, with her mchaity issues, is more .ne service more accessible.'



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Section D activities

The answers to the activities in this section should mostly be found in the previous strategies used for each disorder. This section is all about applying the knowledge

If students have completed all previous sections correctly, they should have a set impact of a disorder on an individual and the variety of ways in which those issuintervention or social care. If they have completed extra a citivities, they may which strategies are currently considered the raps of effective, and why.

The role plays allow the stude of the specific issues and lifestyles of the understand why specific is may or may not be useful for them. This is an as it is all at the new configuration of the patient to make their own decisions about their

In addition the completing a care plan template (either the one supplied or one of the perform their role play in front of the class and be assessed on it by either the teach plays could also be recorded as part of the evidence for the assignment. Students using blogging services where they include details of the case study and the disor recordings/videos of the role plays and the resulting final care plans and reviews course.

Activity D1a

In this role play, the students carry out the initial assessment process of the patient plays the case study patient, and the other a professional tasked with making this occupational therapist, care worker, specialist nurse, etc.).

Between them, the students should come up with a list of physical symptoms, they should identify such issues (s:)

- Meera's emotional bullying and pocasal accendance because of her embarand the various lifestyle things to have a slike to do that may be impacted by
- Rose's charity and in a six, which is an important part of her sense of searthriting aft and six.
- Vijay's depression due to his unemployment and how this may be exampled on how they wish to go with him, either in this initial assessment also examine the consequences of a terminal diagnosis for his prostate cancel ended). This will increase the emotional impact even more and lead into a result.
- Rex's need to do something to 'keep himself busy' which, like Rose, is part of not possible due to his condition.

Having completed this, the students should have a list of needs they can add to the table in D2.

Activities D1b and D2a

This role play takes place following a period of research in the both students we above and consider appropriate strategies. The divide of our discussed on we empower them, which is why the student of patient needs to come to the about what they think they want. The constitution of the brief, include a consider approximation of the brief, include a consideration of the

At the end of color play, the students should have a list of care strategies that that patient which can be added to the second column of the care plan table, links the third column, they should record a reason why this care strategy is important resolving the care need.

Together, D1a and D1b fulfil the requirements for P5, P6 and P7 on the assignment

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Activity D2b

This role play fulfils the requirements for M4, a review of the care plan to improve

There needs to be at least one review cycle covered in this exercise though ideally several in order to see the development of the condition over time. In the real wornot lead to any significant change. Rather than look at these 'nothing different' resituation in which there has been some lifestyle change and ge in the impact the Some options for the case studies are given below out the dents are free to interpret and suggest possible ways for the story to pass.

Meera – a common issue we ge girls is refusing to inject insulin because his weight loss. For the first that or some other inability to cope with a four-inject blood gluce. Heal's levels might be higher than they should be. In a review even to insultant therapy, might help here. A review could also be done much to elderly) when she has developed one or more of the secondary complications as strategies for those. For example, loss of a leg, blindness or kidney failure. This is younger age if she is not compliant with her regime.

Rose – osteoarthritis and rheumatoid arthritis are both progressive diseases so the to get worse and require greater assistance as she gets older. She could develop it another age-related disorder that limits some of the care strategies she is using an dementia or stroke could require modification of her care plan.

Vijay – there are two possible outcomes for Vijay's prostate cancer. One is he is the treatment when his cancer goes into remission. The other is the cancer is judged to scope for reviews of the care plan within that. For example, the first care plan could (common in cases of prostate cancer). However, as his cancer progresses the review other more extreme measures (chemotherapy or radio the common palliative care. Consider also charges in his psychological and enfactors.

With regards to his COPC, and the cannot give up smoking, or refuses to? How given that some and the cannot give up smoking, or refuses to? How

Rex – Parking a progressive disorder with no cure. Therefore, Rex's review progress of the symptoms and how they affect his life. Like Rose, he will need moolder, and changes to his care plan to reflect these changing needs. An added condevelopment of another age-related disorder which might impact the care plan. Adevelop an age-related disorder that might make her less capable of being his care a home. Finally, what happens if he has another heart attack or (as may happen g disorders) a stroke? This is especially interesting if the students decide (which the actually has vascular parkinsonism caused by a previous stroke.

Activity D2 Extension

This activity links to the distinction criteria (D3) which requires students to justify they have chosen for the case study.

As before, students should be able to get a lot of the introduction they need for this and the notes they made from the role of years.

To gain a distinction, strong arguments, with every sources, to sources, to share the chosen the recommendations on their plan. The linked to the case study and the context of the plans and reviews the activities in second C would have looked at a broad range of care strategies, this withis case study. There will be some crossover between these activities, but students

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