# LEVEL 4 CANCER REHABILITATION

Group Presentation Group 3

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## A brief summary of the client's details

- Client
- Gender: Female
- Age: 45
- Type of Cancer: Chordoma (Bone Cancer) with Lesions on head and body
- Cancer Treatment: Chemotherapy (Vincristine)

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## Information about the client's treatment

- Type of Treatment:
- Chemotherapy, Vincristine
- Vincristine is a chemotherapy drug used to treat several different types of cancer.
- It may sometimes be used to treat other cancers. You often have vincristine in combination with other chemotherapy drugs
- How it works
- Vincristine is a chemotherapy drug that belongs to a group of drugs called vinca alkaloids.
- aikaioios.

  Vincristine works by stopping the cancer cells from separating into 2 new cells. So, it stops the growth of the cancer.

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### Information about the client's treatment

- How the treatment is given:
- You have vincristine into your bloodstream (intravenously).
- You have the treatment through a drip into your arm or hand. A nurse puts a small tube (a cannula) into one of your veins and connects the drip to it.
- You might need a central line. This is a long plastic tube that gives the drugs into a large vein, either in your chest or through a vein in your arm. It stays in while you're having treatment, which may be for a few months.

### Information about the client's treatment

- Side effects:
   Risk of infection. The treatment can lower the amount of white blood cells in the blood.
- blood.

  Anaemia, this could impact exercise due to low haemoglobin levels and be careful of bumping into things. to prevent bleeds and bruising

  Fatigue this can impact exercise because they may not be feeling to exercising

  Nervous system problems, for example numbness in fingers and toes.

- Muscle or bone pain.Swelling and pain at the drip site.
- Constipation
   Feeling sick

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### Potential treatment side-effects to exercise programming

- Nausea and sickness: Light exercise and keep the person hydrated
- Drop in the blood count: Anaemia / Bleed easily
- Fatigue: levels of fatigue can be high which make motivation
- Numbness and pins and needles: can be uncomfortable using some free weights and machines - recommended wear gloves.

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<b>Potential</b>	contra	indica	ations	to	exer	cise
th	nat the	client	mav h	ıav	'e	

- Pain when walking
  - May not want to travel far to the sessions or complete the whole programme
- Peripheral neuropathies
  - Lack of sensation in extremities
- Low levels of immunity
  - Bring own towel/tissue to clean to avoid cross contamination between equipment
- Confidence + Anxiety Levels
  - Lesions may make her aware of appearance
- Motivation levels
  - Background, previous activity levels (SoC)

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### A client-specific exercise session

- After testing the participant using the Piper fatigue scale to test her energy levels and the Berg balance scale a PSI Strength and Balance program would be most suitable participant to start with. Wen web and Gad-7 test also taken to see her level of comfort in a social class or the need for one to one session. This session would help her with the balance and strength issue she has from both the condition and her treatment. It would also give many options to adapt for the severity of her symptoms on the given day of the class e.g. seated standing with support or unsupported options. This would help her live a more independent live and help with her ADL's. Also this is easy to adapt to a one to one at home program.
- Start with a 15 min warm up including cardio and mobilising stretches.
- All strengthening exercises to start with 1 x of ten reps develop to longer time under tension

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### A client-specific exercise session

- Main session 10 x heel raises option 10 steps x 6 tip toe walking (for balance and calf Main session U.N rele riases option 10 steps X or up to be Walking (for balance and call strengthening), 10 X heel riases option 10 steps X of tip toe walking (for balance and calf strengthening), 10 X heal toe walking steps (or heal toe rocks if support is need), 10 X outer thigh strengthener each leg for balance and hip strengthening (option seated with resistance band if this does not interfere with and bone lesion's), 10 X sit to stands (option for squat and reach with toe raise on more balance days), 10 X chest strengthener with resistance band (wall press or very light dumbbell if the band interfere with the lesion), 10 X upper back strengthener with resistance band (very light dumbbell if the band interfere with the lesion), 10 X ankle strengthener seated to improve ankle strength and balance
- . Cool down Static stretching at the end of session major muscle groups included in the session
- End session with modified Thai Chi seated to start then building confidence to do standing and I
  the future try movement as well.
- Other session to included gentle or chair based yoga and Pilates sessions.

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### Dietary guidelines that you feel would benefit the client

Good nutrition is important for health, and it's even more so when you're fighting bone cancer. Bone cancer, and the therapies used to treat it, may affect appetite and alter the body's ability to tolerate certain foods or properly process nutrients. Some key points are:

- appetite and after the body's ability to tolerate certain foods or properly process nutrients. Some key points are: Before and during home cancer treatment high protein, high-calorie del too body has enough energy to get through treatment Client goal in to keep weight steady Encouraged to load up on high-cionie foods if feeling weak or underweight To reinforce the importance and the client to keep in mind to eat, even if not feeling well Diet Before Treatment

Maintaining a healthy diet is one of the best ways to prepare for bone cancer treatment. A healthy diet will help the client go into treatment with reserves to help maintain strength, rebuild and protect body tissues, and boost immune system against infection.

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High-protein foods like milk products, eggs, poultry, flab, beans, legumes, and nuts

High-calorie foods like butter, milk products, sauces and gravies, salad diressings

try and be creative in boosting the protein and calories in the boost taken on. Add eggs to casseroles, mashed potatoes, or macaroni

esset. Use whole milk when cooking, Add powdered milk to beverance, prototes, soupput, vegetables, and viegout.

The goal here is to maximize the amount of fuel available to the body

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### Dietary guidelines that you feel would benefit the client

Does during Chemotherapy

The trainments can find the way a client may take in nutrition:

Nationals from chemotherapy drops can make using efficial.

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Where client cost feeling well, by eating small, frequent marks for mades.

Protein can provide an energy local paper of the fisige that other comes with chemotherapy.

Protein can provide an energy be important after borrospictor being as ideal wild. A world friend or greaty foods:

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your local free first infection some pace company to the control company to the control control control.

- eet op om to open to a more transcriour aleet, it is important me trist is concern concursation with decidant a ferticule eating. At least five to seven servings a day of fruits and vegetables, being suite to eat a colourful array of different vegetables. Plentry of high-fill-bre foods like whole grain breads and cereals. Less fat in your meals; choose balled or broised foods over fried foods:

- Low fat milk and dairy products

  Only an occasional alcoholic beverage "Even an occasional drink might be important in allowing the client to "feel more normal" and not feel like all of has to change

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### Dietary guidelines that you feel would benefit the client

We can address some nutritional deficiencies by taking supplements. Some supplements include:

- A multivitamin that contains vitamins A, C, E, the B-complex vitamins, and trace minerals, such as magnesium, calcium, zinc, and selenium
- Omega-3 fatty acids, such as fish oil, to help decrease inflammation and help with immunity
- Calcium citrate and vitamin D for bone support

  A probiotic supplement for maintenance of gastrointestinal and immune health

\*It is important to discuss any supplements with doctor / health professional in consultation with the EOR team before client might start taking them. It would be expected the client would be encouraged by the doctor or nutritionist to ensure it is safe.

### **Additional Information**

- Possible long term effects of Chemotherapy
   Nausea and sickness
   Fatigue and tiredness
   Weight fluctuations
   Sore mouth

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