Managing Side Effects

Living well with Lymphoma

Tina Crosbie BSc Pharm (ACPR)
Ottawa Conference and Event Centre
Lymphoma Canada
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Introductions and Disclosures

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The Ottawa Hospital

Grants/Research Support: none

Speaker's Bureau/Honoraria: AbbVie, Gilead, Janssen, Lundbeck, Roche, Takeda

Consulting Fees: none

The information within this presentation reflects the views and experiences of the presenter and may contain information not yet approved by Health Canada.

<u>Agenda</u>

Registration: 8:00 – 8:30 AM

'Know your Subtype': 8:30 – 9:25 AM

Dr. David MacDonald

Breakout sessions: 9:30 AM – 10:30 AN

Aggressive NHL and Hodgkin Lymphoma
 Dr C. Faught

• Indolent NHL Dr. Melissa Toupin

CLL/SLL
 Dr. Isabelle Bence-Bruckler

Networking 11:00 AM

Managing Side Effects: 11:00 AM – 11:45 AM

Tina Crosbie, Pharmacist

11:45 AM – 12:30 PM

New Hope for Cancer Patients

Dr. Natasha Kekre

Lunch: 12:30 – 1:30 PM

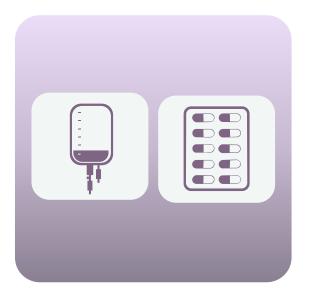






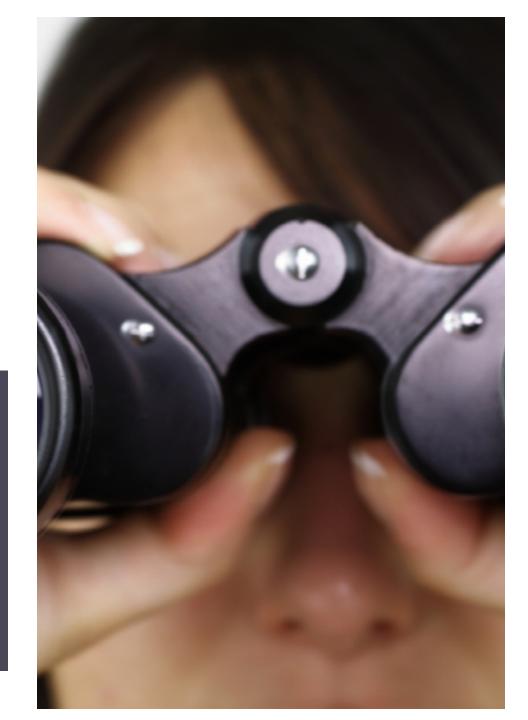








Limit



Plan for Today What about after therapy is finished? Why side effects Share with happen others during treatment

Unwanted effects during therapy

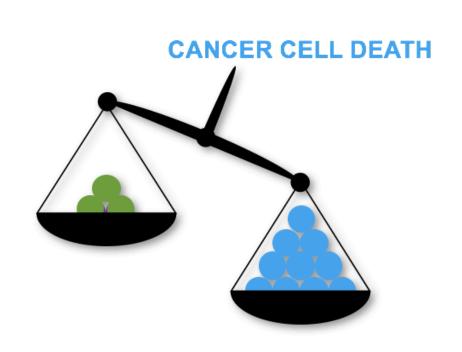


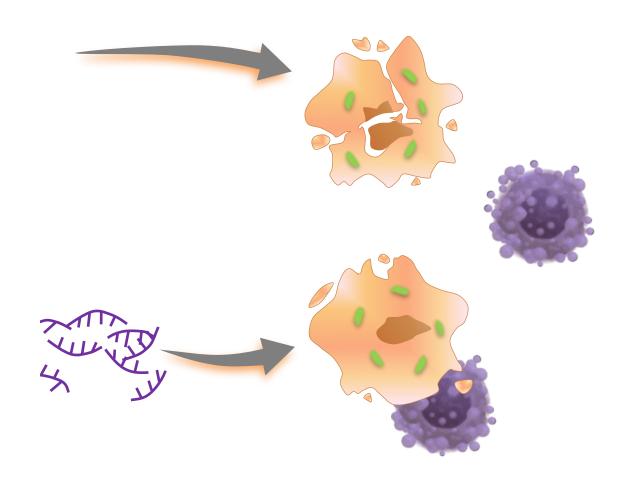
Stand up

Chemotherapy and Fast Growing Cells

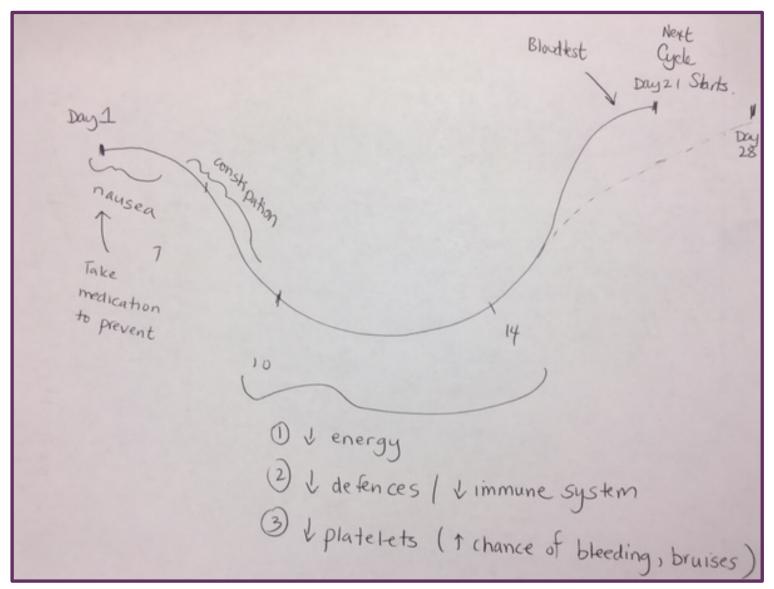
G.I. Blood Hair tube cells nausea hair thinning ↓ neutrophils vomiting heartburn hair loss **↓**hemoglobin taste changes ↓ platelets diarrhea

Chemotherapy and Fast Growing Cells





What a chemotherapy cycle may look like



Risk of infection - watch for fever



- Neutrophils are infection fighting cells
- A temperature over 38°C means there is something happening
- Important to go to hospital right away to investigate
- Less neutrophils are around to fight what is causing the fever

Risk of infection - watch for fever

- Important to stay well
- Hand washing
- Avoid sick people

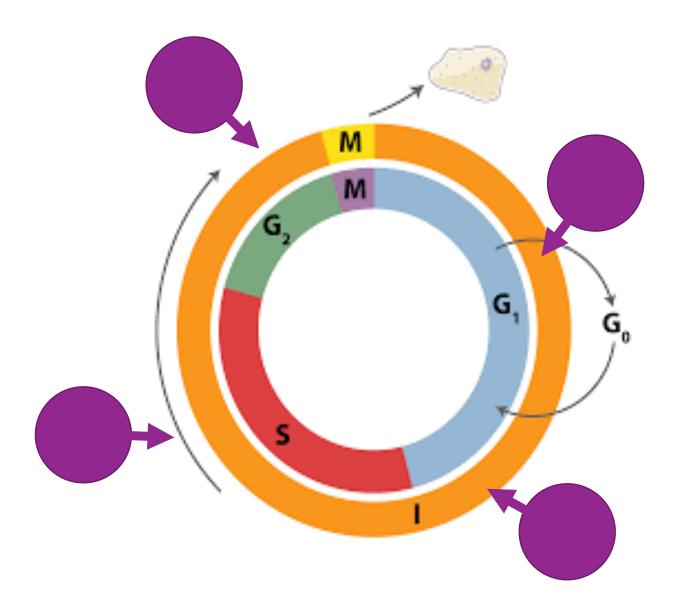
• Flu vaccine for caregivers - and yourself if appropriate

Chemotherapy effects on the body

Then we look at the specific medications chosen to discuss other possible side effects and what to do about them:

constipation Vincristine peripheral neuropathy bladder irritation Cyclophosphamide taste disturbances heart muscle strength Doxorubicin red urine

Combination allows for multiple areas of target



G1 - Growth

S - DNA synthesis

G2 - Growth and preparation for mitosis

M - Mitosis (cell division)

Combination allows for multiple areas of target

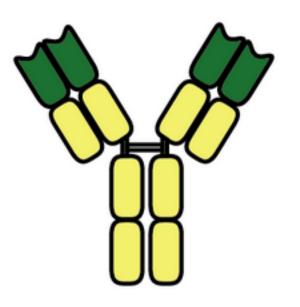
Alkylating agents	Anti-metabolites	Anti-microtubules	Topoisomerase inhibitors
Cyclophosphamide/ Ifosfamide	Cytarabine	Vincristine	Doxorubicin
Chlorambucil	Fludarabine	Vinblastine	Etoposide
Cisplatin/Carboplatin	Methotrexate		Mitoxantrone
Bendamustine	Gemcitabine		
Melphalan/ Busulfan	Cladribine		
Dacarbazine/ Procarbazine	ECR	B-R	Hyercvac
ABVD		CHO	P-R
GDP	ILE CE	SOP PRAI	CVP-R

Beyond chemotherapy

Targeted therapy and immunotherapy

Targeted therapy — Anticancer therapy

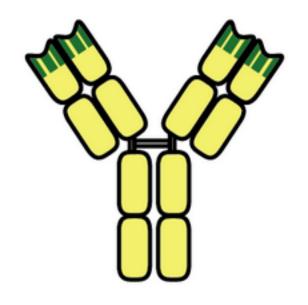
Chimeric mAb



-ximab Rituximab

CD20

Humanized mAb

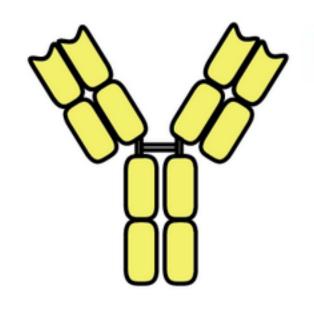


-zumab
Alemtuzumab
Obinutuzumab

CD20

CD52

Human mAb

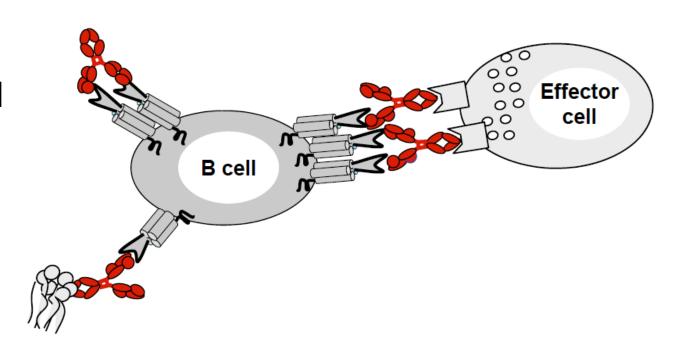


-mumab _{CD20} Ofatumumab

Brentuximab
vedotin: CD30
Antibody +
chemotherapy

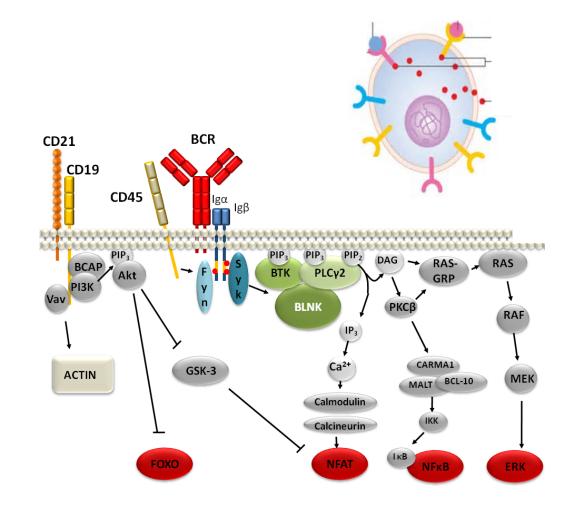
Monoclonal Antibodies – Targeted therapy

- Looking for protein markers e.g.
 CD20 on the cell surface to bind
- Most side effects are during and from the infusion itself
 - Chills, fever, shakes, nausea, low blood pressure
- Can see some neutropenia so important to be well when receiving therapy

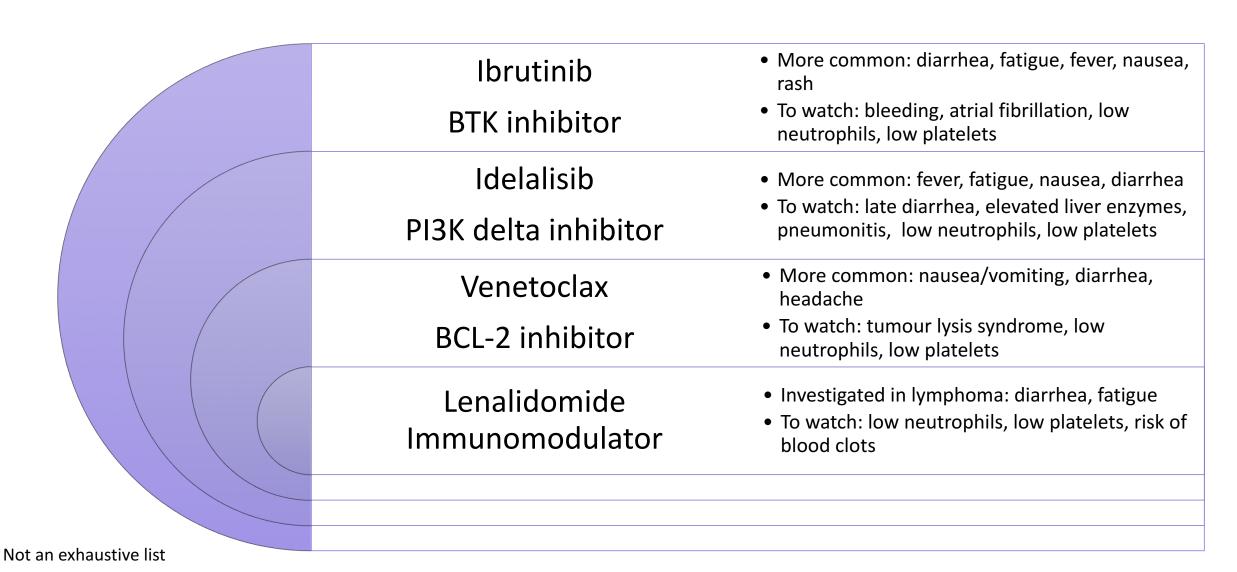


Small molecule inhibitors – Targeted therapy

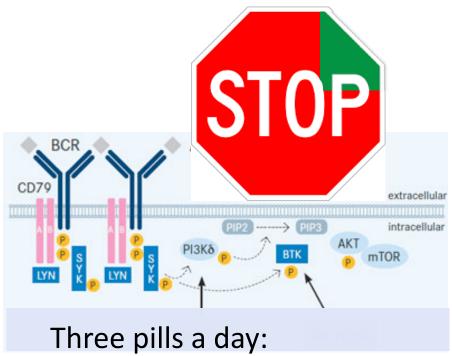
- Come in pill form; taken every day
- Targeting pathways inside the cell
- Affect the signaling within the cancer cell for cell growth and cell survival

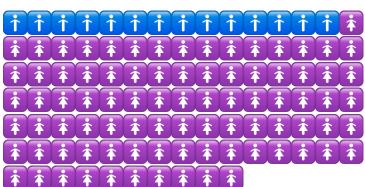


Anti-cancer Targeted therapy

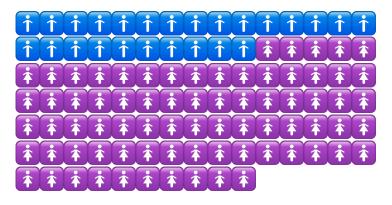


Taking your medication matters

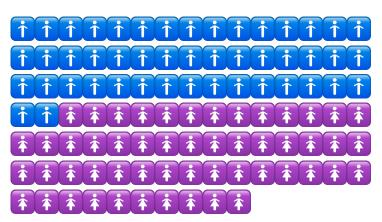




Two pills a day:



1 pill a day:



Taking your medication matters!

Guides for patients





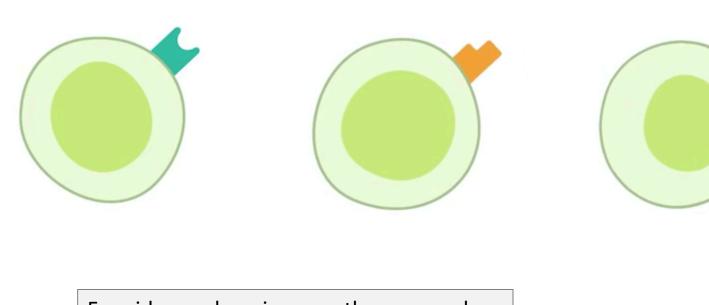


Immunotherapy:



Activating the immune system to fight cancer

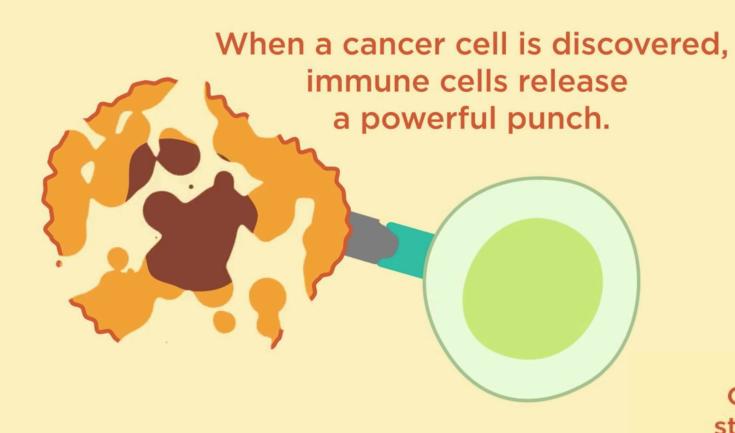
Immunotherapy – activating the immune system to fight the cancer



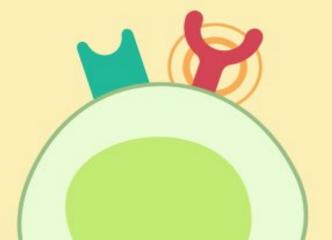


For video on how immunotherapy works:

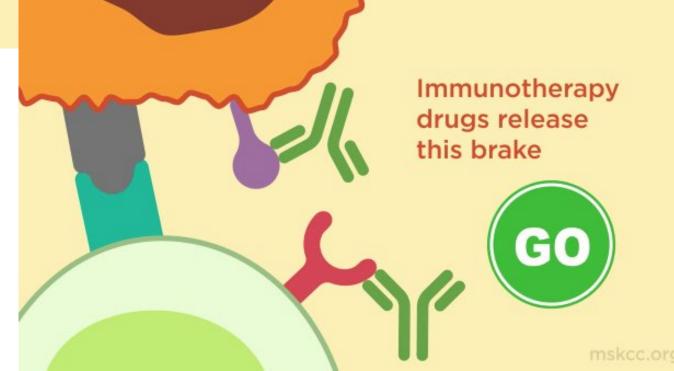
https://www.mskcc.org/videos/immunotherapy-how-it-works



One way they evade attack is by stepping on an immune cell brake, called a checkpoint.







Immunotherapy

Checkpoint Inhibitors:

Used already in solid tumours e.g. certain melanomas, renal, lung.

Nivolumab: evaluated for use in relapsed Hodgkin Lymphoma after auto stem cell transplant



Hodgkin Lymphoma Patient Survey: Experience with Nivolumab (Opdivo

Hodgkin Lymphoma Patient Survey: Experience with Nivolumab (Opdivo)

If you have or had Hodgkin lymphoma AND took the drug nivolumab (Opdivo), you can help by completing our survey.

Lymphoma Canada is preparing a submission for the pan-Canadian Oncology Drug Review (pCODR) for:

NIVOLUMAB (OPDIVO) FOR THE TREATMENT OF HODGKIN LYMPHOMA AFTER FAILURE OF AUTOLOGOUS STEM CELL TRANSPLANT (ASCT).

he survey provides us with the patient input required for the submission. pCODR uses this informati help them make recommendations to the provinces and territories regarding funding for new cano

not need to live in Canada to complete this survey.

NG THIS SURVEY, YOU ARE PART OF THE PROCESS THAT MAY HELP PATIENTS GAIN ACCESS TO TIN CANADA.

open until midnight Pacific Time on Friday, October 6th, and should only take 10

v clicking the link below.

h nivolumab (Opdivo) experience

Immunotherapy

Used already in solid tumours: e.g. certain melanomas, renal, lung.

Pembrolizumab: Sept 2017: Health Canada NOCc in relapsed Hodgkin Lymphoma after brentuximab use & +/ auto SCT.

- LYMPHOMA - GET INVOLVED NEWS & EVENTS **ABOUT US** PROGRAMS & RESC

Home > Pembrolizumab may help those with relapsed NK-cell and T-cell lymphomas



Pembrolizumab may help those with relapsed NK-cell and T-cell lymphomas

A small study suggests that pembrolizumab may provide lasting remissions in some patients with NKcell or T-cell lymphomas whose previous treatments failed.

Pembrolizumab is a type of immunotherapy. This type of treatment stimulates the body's immune system to fight cancer cells. Pembrolizumab targets and blocks a protein called PD-1 on the surface of certain immune cells called T-cells. Blocking PD-1 triggers the T-cells to find and kill cancer cells.

re study indicates that the treatment could be an option for patients who have failed to respond to tment. The report was published in the journal Blood. Those with NK or T-cell lymphomas who fail to and to currently available therapies have had no other treatments to turn to. The study rators gave seven men with NK- and T-cell lymphomas, all of whom had failed to respond to treatments, the checkpoint inhibitor pembrolizumab.

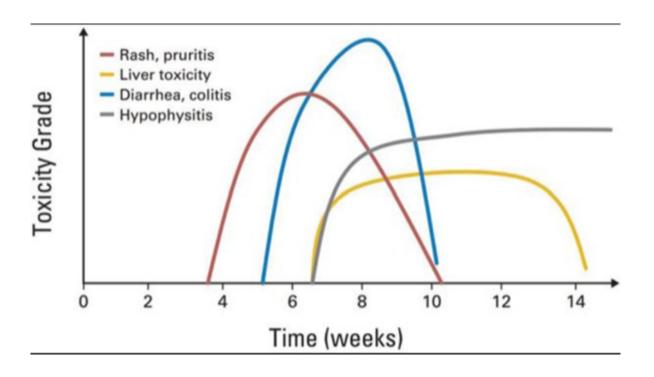
> ants responded to the pembrolizumab treatment. Two patients achieved a complete three more had no signs of cancer when examined by imaging and clinical methods. partial response.

> > time of six months, five of the patients were still in complete remission and a bleeding stomach ulcer.

> > > the trial was a moderately severe rash, caused by an immune be managed with corticosteroids and the patient continued

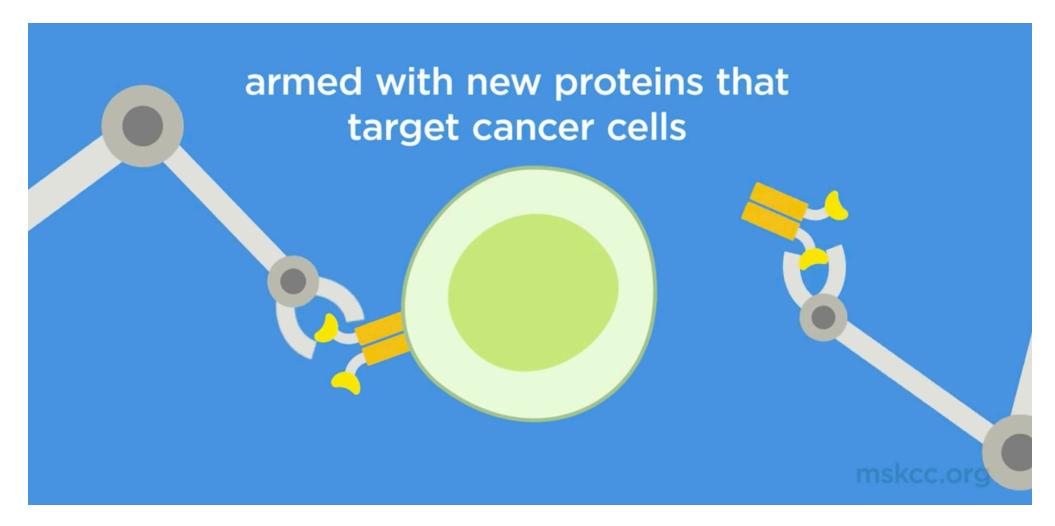
Immunotherapy

- different mechanism
- different side effects
 - Side effects stem from an activated immune system (think autoimmune disorders, inflammation)
 - Steroids or breaks from therapy are used to minimize these reactions.



Weber J, et al: *J Clin Oncol* 30(21), 2012:2691-2697.

Immunotherapy continues





Life Beyond Lymphoma

Living during the off-treatment phase of life

Late effects of treatment can make this period challenging

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Fatigue Eye Problems

Nerve Damage Bone Complications

Reduced Glandular Function Sexual Issues

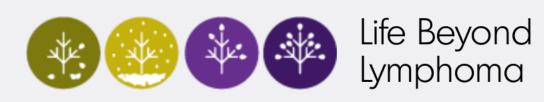
Memory Problems or Confusion • Female Sexual Issues

Infections • Male Sexual Issues

Heart Disease and Stroke Reproductive Issues

Lung Scarring • Female Fertility Issues

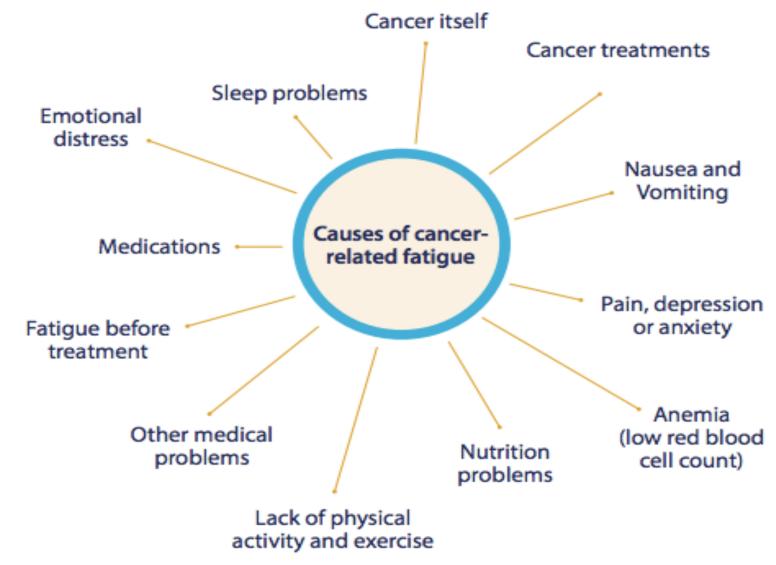
Male Fertility Issues



Cancer related Fatigue

- The most common symptom
- Cancer related fatigue goes beyond needing a rest
- Can be physical, emotional and/or cognitive tiredness or exhaustion
- Doesn't result from recent activity or exertion
- Interferes with usual functioning
- Not relieved by rest or sleep

Causes of Cancer related Fatigue



Monitoring Fatigue

- Monitor each day using a treatment log or diary to help identify peak energy periods
- Record daily activities, time spent doing each activity, and fatigue level
- Note which activities were most tiring/difficult at the end of the day

 Plan for how these activities could be changed to make them more manageable

PRACTICE GUIDELINE

CURRENT OLD OY A Canadian Cancer Research Journal

Exercise for people with cancer: a clinical practice guideline

R. Segal мD,* C. Zwaal мsc,† E. Green RN,‡ J.R. Tomasone PhD,§ A. Loblaw мD мsc,|| Т. Petrella мD,‡ and the Exercise for People with Cancer Guideline Development Group

Guideline Recommendations

- People with cancer can safely engage in moderate amounts of exercise while on active treatment or post completion of therapy
- Moderate amounts of exercise are recommended to improve quality of life (QOL) as well as the muscular and aerobic fitness of people living with cancer
- Clinicians should advise their patients to engage in exercise (as per recommendations by the Canadian Society of Exercise Physiology and American College of Sports Medicine)
 - 150 min of moderate-intensity aerobic exercise spread over three to five days and resistance training at least two days per week
 - Resistance sessions should involve major muscle groups two to three days per week
 - Each session should include a warm up and cool down

Avoid inactivity, as sedentary behavior may be detrimental

- Some exercise is better than none
- Have a pre-exercise assessment before starting an exercise to evaluate for any effects of disease, treatments and /or co-morbidities.
- Start easy and progress slowly
- Exercise must be individualized based on function, side effects, and preferences

General Exercise Principles



4 P's to Manage Energy

1 Plan 2 Prioritize 3 Pace 4 Position

PLAN AHEAD

- Plan your activities during peak energy times
- Plan for rest periods before and after activities
- Plan activities or outings where you can sit down to rest
- Do one enjoyable activity everyday
- Do not do all of your difficult or tiring tasks on the same day
- Delegate activities that are tiring or difficult to do housework, shopping, pet care
- Arrange your home so that most activities can be done on one floor - keep supplies within reach



PRIORITIZE

- Decide which activities are most important to you
- Save your energy for things you enjoy most - Energy Bank

- Postpone less important activities or ask others to do them for you
- Eliminate activities that you do not have to do

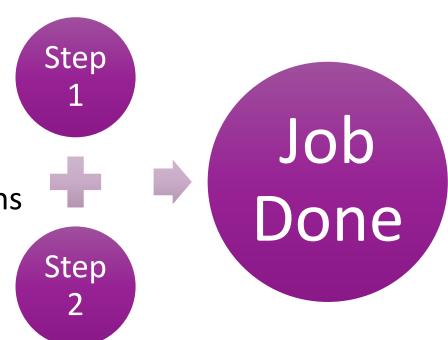


PACE

- Do one activity at a time
- Stop and rest before you get tired, even if it means stopping in the middle of a task
- Rest between activities
- Break tasks down into smaller steps

POSITION

- If possible, sit when doing things like folding laundry or preparing food
- Use walking aids Hand rails, grab bars, a cane, or a walker
- Avoid heavy lifting



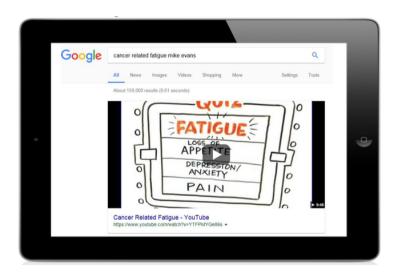


Fatigue and Sleep

Sleep habits can affect fatigue

- Go to bed and get up at the same time everyday
- Exercise regularly, even if it's just a short walk
- Limit naps to less than 1 hour
- Avoid long or late afternoon naps
- Avoid drinking alcohol or caffeine in the late afternoon or evening
- Limit activities and physical activity in the evening

Mike Evans – 10 min video on cancer related fatigue on YouTube









The best exercise is the one you are going to do





- It is a real thing
- Difficulty concentrating, multi-tasking, remembering details, train of thought...
- For some, it gets better as time goes on; for others it does not go back to pre-treatment ways



Cancer related brain fog

- Use memory tools
- Reduce mental fatigue



Cancer related brain fog

- Reorganize your environment
- Train your brain
- Strive for healthy eating, healthy lifestyle

Where to go from here?



Keep track of symptoms that:
don't go away
get worse over time
have no reason for happening

The new normal Wish list

- ✓ Stop smoking smoking cessation program at TOH
- ✓ Be sun smart sunscreen
- ✓ Get routine cancer screening; breast, cervical, colorectal
- ✓ Reduce or eliminate alcohol
- ✓ Add physical activity to your life



The new normal Wish list

- ✓ Live life
- ✓ See friends
- ✓ See family
- ✓ Make time for you

√ Celebrate milestones





"Suck on lemon candies before eating – hides metal taste"

"I take
dexamethasone at
bedtime with a
snack; I can get
some sleep before
the jolt kicks in"

u n

"I had something ready for the day after steroids. That was my down day and I needed a pick me up" "Write things down you don't want to forget – takes the pressure off" "I take my neighbor's dog for a walk. Gets me moving and it's a habit for both of us now"



Thank-you for coming today

