

Chapter 8

Chronic and Life-Threatening Illnesses

Cancer

- Involves **uncontrolled growth of abnormal cells**, which often form a tumour
 - **Metastasized** when abnormal cells spread from original site to other parts of the body
- Many forms, with different symptoms
 - Most common types are lung, breast, prostate, and colorectal
- Lifetime probability: 40% (M), 36% (F)
- For more information, www.cancer.ca

Psychological Responses to Cancer

- Cancer diagnosis often brings **psychological responses** and **emotional distress**
- Responses influenced by **symptoms** that are:
 - Constant; may produce discouragement and fear
 - Unpredictable and erratic; may cause anger and frustration
 - Relentlessly progressive; may produce feelings of exhaustion and being overwhelmed

Suffering among Cancer Patients

Suffering may occur in three areas:

1. **Physical** (accounts for ~60%)

- Fatigue, pain, side effects of treatment
- Types: **illness-caused** and **treatment-caused**

2. **Psychological** (accounts for ~44%)

- Depression and fear

3. **Social** (accounts for ~13%)

- Primary problem is withdrawal

Cancer & Physical Distress

- Pain management is a major challenge
 - More than 90% of pain can be controlled by current treatment, but tends to be underused
- Patients' attitudes and behaviour a major influence
 - Fear drug tolerance or addiction, so hesitant to seek treatment
 - Believe pain must be tolerated, so hesitant to report pain

Cancer & Psychological Distress

- Negative consequences of **depression**
 - Poorer quality of life, reduced compliance, longer hospital stays, higher mortality rates, greater reported pain
- Linked to **intrusive memories**: unwanted thoughts related to memories of cancer
 - Results in poorer coping due to anxiety, sense of hopelessness, helplessness

Cancer & Coping Style

- Psychological response influenced by coping style
 - **Emotion-focused coping**: focus on reducing the emotional impact of disease, typically through **avoidance**
 - **Problem-focused coping**: focus on addressing stressors, typically through **action** (e.g., compliance, increasing knowledge)

Treatment of Cancer

- Typically treatment involves one or a combination of the following:
 - **Surgery**: to remove tumour(s)
 - **Radiation Therapy**: to shrink tumour(s)
 - **Chemotherapy**: to treat metastasized cancer or prevent it from spreading
 - **Hormone Therapy**: to reduce presence to tumour-stimulating hormones

Treatment of Cancer: Responses

- **Radical surgery**: requires removal of considerable amount of normal tissue
 - Can impact **appearance** and **autonomy**
 - E.g., radical breast mastectomy
- **Side effects** of chemotherapy and radiation therapy due to harm to healthy cells
 - Fatigue, nausea, vomiting, hair loss, pain, increased risk of infection
 - **Anticipatory nausea**: onset prior to treatment as a result of conditioning

Conditioned Taste Aversion (CTA) and Cancer

- With cancer comes many unpleasantries.
- One of them is CTA.

What is CTA

- Like other conditioning paradigms it is the pairing of an unconditional (UCS) and a conditional stimulus (CS).
 - In fact this is classical conditioning.
- A UCS is a stimulus that elicits a reliable unconditional response (UCR) because it has a physiological action.
- A CS elicits a conditional response (CR) when it is paired with a UCS.

CTA cont'd

- How does it work?
- Example:
 - A young boy names Robert wanted some ice cream. His mother thought that she would expand Robert's repertoire of flavors and gave him Pistachio flavored ice cream.
 - That evening Robert complained of nausea. Minutes later he began to vomit.
 - It was later discovered that the flu was making its way through the neighbourhood and in fact Robert had been infected with the virus.

CTA cont'd

- Robert completely recovered within one week and was eating normally.
- Some weeks after his recovery, Robert was once again offered Pistachio ice cream.
- Even though he loved it the first time, he quickly rejected it and claimed that the taste made him feel funny in the tummy.

CTA cont'd

- What happened to Robert?
 - He first had a **novel taste meal** followed by an emetic (vomit) response to the flu virus.
 - It did not matter that the ice cream was not responsible for the emetic response.

Some properties of the emetic response.

- CTA works better when a novel taste is involved.
 - This is because is the person has less experience with the CS prior to the CS/illness pairing.
- The conditioning can be reversed if the CS is administered and emesis does not occur.

How does CTA Factor in with Cancer.

- Many chemotherapy drugs are associated with nausea.
- Consequently, patients on occasion will have some new type of food prior to treatment.
- When this happens, the patient can become nauseous just after having injected this new food.
 - When presented with the food at some later date, the patient will refuse it. This can last years.

Social Support

- Includes companionship, practical help (e.g., drive to medical appointment)
- **Help-intended communication**: attempts to alleviate emotional distress
- **Support groups**: members can provide empathy, knowledge from shared experiences
- Survivors may report **posttraumatic growth**: positive outcomes attributed to benefit finding

Psychotropic Medications & Psychotherapy

- **Antidepressants**: possible interactions with other cancer-related treatment(s)
- **Psychotherapy**: can be used to help patient adopt a problem-focused approach to coping with cancer
 - Has been found useful as a method of **pain management**
 - Helpful for **family caregivers** who also experience emotional and physical distress

Diabetes

- Affects over 1.1 million Canadians
- Pancreas produces **too little insulin**
 - **Type I** (“insulin dependent”): little to no insulin produced; ~10% of cases
 - **Type II**: insulin insufficiently produced or used, ~90% of cases
 - **Gestational Diabetes**: Temporary condition, affects 2% to 4% of pregnant women
- Treatment may include insulin injections, controlled diet, blood sugar monitoring

Diabetes & Psychological Distress

- Fear and depression most prevalent psychological problems
- Fears may relate to
 - possible long-term consequences of disease (amputation, blindness, stroke)
 - self-testing and self-injection
- May lead to decreased self-efficacy, affecting disease management

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Diabetes & Psychological Distress

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- Depression twice as common among diabetics than non-diabetics
 - May cause difficulty in communicating about emotions and accepting help
- Depression and blood sugar linked bidirectionally
 - Low blood sugar worsens depression
 - Depression impacts on disease management

Coping with Diabetes

- Interrelated goals of diabetic education programs:
 - Ensure compliance with regimen
 - Treat psychological distress
- Support for diabetics may include
 - Cognitive behaviour therapy (CBT)
 - Education and support groups
 - Support from social network (family, friends)

Cardiovascular Diseases

- One in every 3 deaths in Canada has cardiovascular disease as the underlying cause.
- Health psychologists focus on:
 - Myocardial infarction (heart attack)
 - Coronary artery bypass graft (bypass surgery)
 - Angioplasty (surgery to open a blocked artery)

Cardiovascular Disease & Psychological Distress

- Anxiety and fear of future attacks
- Leads to **cardiac invalidism**: limit activity more than is necessary
 - Negatively impacts quality of life
 - Unhealthy sedentary lifestyle
- Depression extremely common
 - Increases risk for future cardiac problems and death
 - Worse for women and people over 65

Coping with Cardiovascular Disease

- Support from social network
- Rehabilitation programs
 - Holistic: addressing all aspects of life, from diet and exercise to mental health
- Psychotherapy
 - Cognitive reappraisal and restructuring to promote healthy **anger management**
- Antidepressants sometimes used

HIV and AIDS

- **Human immunodeficiency virus (HIV)**
 - Gradually breaks down immune system
 - Prolonged HIV infection results in **acquired immune deficiency syndrome (AIDS)**
- Certain populations at greater risk
 - Men who have sex with men
 - Injection drug users
 - People receiving blood and blood products
 - Aboriginal persons

Psychological Distress & HIV/AIDS

- Important differences from other illnesses: no cure, attached social stigma, myths about infectivity
- Unique psychological challenges that negatively impact self-esteem and quality of life
 - Personal **responsibility** or **guilt** about illness
 - **Rejection** and **alienation** by others
 - **Anxiety** about uncertain future

Coping with HIV/AIDS

- Unique challenges in coping
 - Social support often lacking due to stigma and alienation
 - Antidepressants may worsen HIV/AIDS symptoms
- Medications available to prolong life
 - Antiretrovirals and protease inhibitors
- Group therapy found to be effective

Quality of Life

- Impact of symptoms and treatment on physical, social, cognitive and emotional functioning
 - Treatments that alleviate medical symptoms may negatively impact other areas of life
- **Tradeoff** between duration and quality of life must be recognized
- A **subjective phenomenon**, so patient must be involved in all decision-making

Death and Dying

- A dying person may experience some or all of these symptoms:
 - **Denial**: refuse to acknowledge seriousness
 - **Anger**: feelings of unfairness, may be directed at various targets
 - **Bargaining**: trying to “buy more time”
 - **Depression**: feelings of hopelessness and helplessness
 - **Acceptance**: being at peace with one’s situation

Bereavement and Grief

- Friends and family must cope with **bereavement**
 - **Grief**: psychological response to bereavement
- Bereaved are a **high-risk** group
 - Higher suicide and death rates
 - Higher incidence of depression and substance abuse
 - More medical problems
- May attend **grief therapy**