MODULE-VI, CNS MODULE 4th Year MBBS Behavioral Sciences and Lifestyle

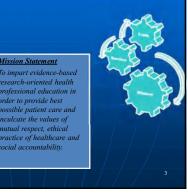
> Dr Abdul Qadoos Dr Asif Maqsood Butt



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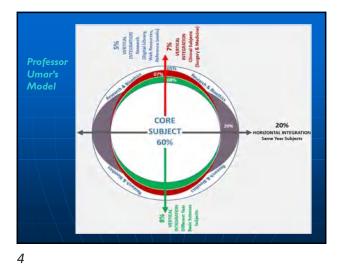
Vision & Mission of RMU Vision & Mission of RMU Vision & Mission of RMU Vision & Mission Statement Nission Statement To impart evidencebased training techniques for development of highly competent health professionals, who are lifelong competent health

experiential learner and are socially accountable.



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# Sequence Of Lecture

1. Core concepts	24 slides
2. Vertical Integration	01 slides
3. Horizontal Integration	01 slides
4. Family Medicine	1 slide
5. Bioethics	1 slide
6. Relevant Research	1 slide
7. EOLA(End of lecture assessment)	1 slide
8. Suggested Readings	1slide

# Learning Objectives

By the end of the session, students will be able to ... Describe behavior and its dynamics

- 2. Identify types of emotions
- Identify and analyze the various ways in which emotions are expressed and communicated
- 4. Evaluate roles of emotions in health and disease
- 5. Elaborate control of emotions

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6. Define motivation and incentives

#### **BEHAVIOUR** The way one conducts oneself. **Dynamics of Behavior** The treatment of others. Response to others. Health Behavior Illness Behavior "Field of scientific research "Field of study that is primarily concerned with the concerned with the effects of Treatment Behavior behavior on physical health understanding, prediction, and control of human behavior, and illness. Philosophy Psychology History Developed in 1970, it focuses especially those types of behavior that develop out of on the occurrence prevention, control of inter personal relations" physical disorders that are caused or aggravated by social conditions, behavior, thoughts, and emotions". Behavioral and Social Sciences Sociology Hadron Chicanx Studies History Leonomics Political Science

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#### Core Con

### Responses

- Physical responses--- habits, skills
- Organic responses--- emotions, feelings, tension
- Intellectual responses--- perception, thinking, reasoning

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# Identify Emotions

- The word 'emotion' is derived from the Latin word "Emovere", which means to be 'stirred up,' or 'to stimulate'. Emotions literally jerk a person.
- Due to closeness of emotion with feeling, the quantity of emotion increases with the increase in feeling and the body gets evoked or stimulated. This stimulated condition is known as 'emotion.'



#### Core Con

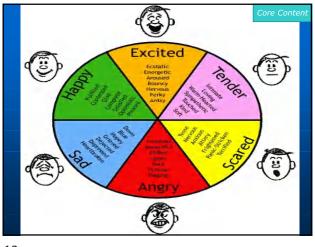
- Environmental stimuli--- sight, smell, touch
- Emotions and feelings--- arise within body

**Causes of Behavior** 

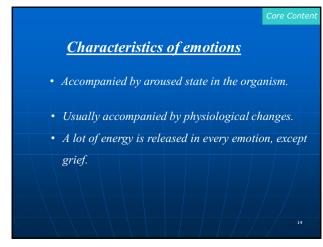
- Needs--- wants, desires, urges
- Motivation--- inner force driving an individual to a certain action
- Intellectual perception--- thinking and reasoning influences behavior.

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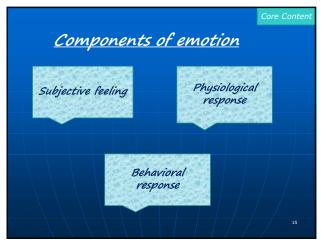
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## Physiological response

- Many physical reactions we experience during an emotion are controlled by sympathetic nervous system, a branch of
- The Amygdala is a tiny, almond shaped structure that has been linked to motivational states, as well as memory & emotion
- Researches proved that when people are shown threatening images, the amygdala becomes activated. Damage to amygdala impairs the fear response.

#### Core Conte

- Researchers believe that the experience of emotions can be highly subjective.
- Our unique experience of the emotions is probably much more multi-dimensional.
- We don't always experience 'pure' forms of emotion. Mixed emotions over different events in our lives are common.

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### **Behavioral** response

- This is the actual expression of emotion. We spend a significant amount of time interpreting the emotional expressions of people around. And our ability to accurately understand these is tied to our emotional intelligence.
- Many expressions are universal, such as smile indicates happiness or pleasure.

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### **Positive Impact of Emotions on Health:**

- 1. Stress reduction: Positive emotions like happiness, gratitude, and relaxation can mitigate stress.
- 2. Immune system boost: Studies show that positive emotions strengthen the immune system.
- 3. Pain management: Emotions like joy and laughter can reduce pain perception.
- 4. Social connections: Positive emotions foster social connections, crucial for mental and physical health.
- 5. Resilience: Emotional well-being enhances resilience, aiding in coping with adversity.

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## Negative Impact of Emotions on Health:

1. Stress and anxiety: Chronic stress and anxiety can lead to cardiovascular disease, diabetes, and mental health disorders.

**ROLE OF Emotions On Health and Disease** 

Emotions play a crucial role in both

impacting overall well-being.

healthy

physical and mental health, significantly

• Positiuve Impact of emotions on health

Negative impact of emotions on

- 2. Inflammation: Negative emotions can trigger inflammation, increasing disease risk.
- 3. Weakened immune system: Chronic stress and negative emotions weaken the immune system.
- 4. Mental health disorders: Unmanaged emotions contribute to depression, anxiety, and other mental health issues.
- 5. Behavioral problems: Negative emotions can lead to unhealthy coping mechanisms, such as substance abuse.

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### **Emotions and Disease:**

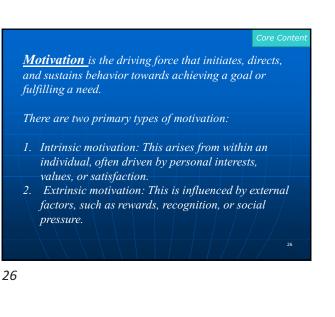
- 1. Cardiovascular disease: Chronic stress, anger, and anxiety increase cardiovascular risk.
- 2. Cancer: Stress and negative emotions may weaken immune function, potentially increasing cancer risk.
- Diabetes: Chronic stress and emotional distress
- increase diabetes risk.
- Mental health disorders: Unmanaged emotions contribute to conditions like depression and anxiety.
- 5. Neurological disorders: Emotions impact neurological conditions like Parkinson's disease and multiple sclerosis.

# Managing Emotions for Better Health:

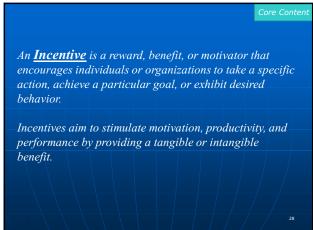
Integration

- 1. Mindfulness and meditation
- 2. Exercise and physical activity
- 3. Social support networks
- Journaling and expressive writing
- 5. Seeking professional help when needed









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# Types of incentives:

- 1. Monetary incentives: Financial rewards, bonuses, salaries, or profit-sharing.
- 2. Non-monetary incentives: Recognition, praise, promotions, or titles.
- 3. Social incentives: Social status, prestige, or sense of belonging.
- 4. Psychological incentives: Personal satisfaction, enjoyment, or sense of accomplishment.
- 5. Physical incentives: Goods, services, or tangible rewards

### Incentives are used in various contexts, including:

- 1. Business and management
- 2. Marketing and sales
- 3. Education and training
- 4. Healthcare and wellness
- 5. Personal development and goal-setting.

Effective incentives align with individual values and organizational goals, driving desired outcomes and behavior.

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# FAMILY MEDICINE Fifty Years of Contributions of Behavioral Science in Family Medicine

Over this time, the family physician's role in treating behavioral health concerns has changed from primary responsibility to new models of collaboration and team care. Likewise, behavioral scientists in family medicine have enhanced their scope of attention from the foundational focus on family dynamics and behavioral health care, to physician well-being, contextual care, and team-based communication. The educational and clinical functions of behavioral science faculty have expanded, with significant contributions to research and scholarly work that have defined academic family medicine, and development of leadership roles within clinical teams, academic departments and centers, and larger health systems.

https://www.stfm.org/familymedicine/vol49issue4/Baird296

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Research	Reseach
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### Bridging the Human-Al Gap: The Indispensable Role of Behavioral Science

by Jennifer Weeks - 2023-12-01

#### The evolution of Artificial Intelligence (AI) and Machine Learning (ML) holds great promise in improving how people work and live.

For every scary or risky possibility we can imagine in our future alongside the robots, there are a hundred ways we can imagine AI improving our lives. From treating and preventing diseases, to increasing access to education, to supporting mental health, to unlocking global collaboration, and countless others – the potential that AI brings leaves us nothing short of breathless. However, in order to live up to this incredible potential, the development of AI tools designed to augment humans cannot be driven by technology alone – it must be grounded in an understanding of human psychology and behavior.

https://beworks.com/blog/bridging-the-human-ai-gap-the-indispensable-role-of-behavioral-science



- Equity of resources
- Confidentiality of the patients
- Patient Safety
- Conflict of Interests
- Informed Consent
- Dealing with the opposite sex

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### How to Access Digital Library

#### Steps to Access HEC Digital Library

- 1. Go to the website of HEC National Digital Library.
- 2. On Home Page, click on the INSTITUTES.
- B. A page will appear showing the universities from Public and Private Sector and other Institutes which have access to HEC National Digital Library HNDL.
- 4. Select your desired Institute.
- 5. A page will appear showing the resources of the institution
- 6. Journals and Researches will appear
- 7. You can find a Journal by clicking on JOURNALS AND DATABASE and enter a keyword to search for your desired journal.

17/10/2024

