OBESITY MANAGEMENT IN PRIMARY CARE CERTIFICATE PROGRAM:





Module 1: Obesity is a Complex Disease: Scope and Pathophysiology Clinical Webinar Key Pearls

- An increasing number of states have >35% of people living with obesity.
- The impact of preobesity (overweight) and obesity on health includes metabolic, mechanical, malignant, and psychological effects.
- There are over 100 genes are known to play a role in obesity and preobesity (overweight).
- Adipose tissue is metabolically active.
- Adipose tissue is chatty meaning it is using hormones to talk.
- The hypothalamus centrally regulates weight by using hormones to communicate with organs, such as the small intestine, adipose tissue, stomach, and large intestine.
- Insulin is a promoter of adipose storage.
- Ectopic fat can deposit in the pancreas, muscle, liver, heart, and kidneys.
 - New disease: obesity-related glomerulopathy (ORG) where ectopic fat deposits and accumulates in the kidney creating hyperfiltration. This accumulation of ectopic fat leads to exhaustion of the podocytes, proteinuria, glomerulosclerosis, and interstitial fibrosis.
- There are hormonal signals that affect the brain that are hedonic and increase eating without an actual increase in hunger.
- Satisfaction signaling includes executive functioning with craving based on the reward system through dopamine.
- Adequate sleep is very important to controlling obesity and obesity risks related to keeping cortisol decreased.
- Weight regain is an adaptation response to reduction in excess weight. The body wants to keep the abnormal adipose tissue and hormones that regulate weight go into overdrive ghrelin increases, leptin resistance increases, and metabolic rate decreases, all driving regain.