**Research Topics(Second level) -**

**راسبى الترم الأول من المستوى الثانى**

1. **Nutrition Module:**

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| **Items** | **Subtitles** |
| 1. **Obesity** | * Definition * Ways of assessment * Abnormalities in lipid and carbohydratemetabolism * Storage of energy in the form of TAG and denovo   synthesis of fatty acids   * Hormonal regulation of fat deposition andappetite * Relationship between obesity and insulinresistance * Basal metabolic rate and specific dynamic action * Causes and methods of prevention |
| 1. **Diabetes Mellitus** | * Definition * Types of DM * Comparison between both types * Metabolic changes occurring in both types. * Insulin hormone: structure and mechanism ofaction * Complications * Basal metabolic rate and specific dynamic action * Causes and methods of prevention |
| 1. **Inborn errors of proteinmetabolism** | * Discuss in detail different examples of inbornmetabolic disorders with the reference to theenzymatic deficiency, defective metabolic pathway, clinical picture and management. * Basal metabolic rate and specific dynamic action * Causes and methods of prevention |
| 1. **Vitamins and theirimplications on health** | * Vitamins Classification * Types * Functions * Deficiencies * Basal metabolic rate and specific dynamic action * Causes and methods of prevention |