

## Chapter 20 – Nutrition and Diabetes Mellitus

### Chapter Outline

### Instructor Resources

#### I. Overview of Diabetes Mellitus

##### A. Introduction

1. Incidence of diabetes mellitus is steadily increasing
2. Metabolic disorders characterized by:
  - a. Elevated blood glucose
  - b. Disordered insulin metabolism
3. May have:
  - a. Impaired insulin secretion
  - b. Cells that do not respond to insulin normally
4. Results in hyperglycemia

##### B. Symptoms of Diabetes Mellitus

1. Classic symptoms
  - a. Glycosuria
  - b. Polyuria
  - c. Polydipsia
  - d. Polyphagia
2. Other consequences
  - a. Blurred vision
  - b. Increased infections
  - c. Constant fatigue

##### C. Diagnosis of Diabetes Mellitus

1. Oral glucose tolerance test
2. Hb A<sub>1c</sub>
3. Random plasma glucose 200 mg/dL or > & classic symptoms
4. Fasting glucose level 126 mg/dL or >
5. Plasma glucose 2 hours after a 75-g glucose load = 200 mg/dL or >
6. Hb A<sub>1c</sub> ≥ 6.5%
7. Prediabetes
  - a. Fasting glucose level 100-125 mg/dL
  - b. Plasma glucose 2 hours after a 75-g glucose load = 140-199 mg/dL
  - c. Hb A<sub>1c</sub> = 5.7-6.4%

##### D. Types of Diabetes Mellitus

1. Type 1 Diabetes
  - a. 5-10% of cases
  - b. Autoimmune destruction of pancreatic beta cells
  - c. Insulin therapy needed
  - d. May be genetically susceptible and at risk of developing other autoimmune diseases
  - e. Usually occurs in childhood or adolescence
  - f. Ketoacidosis may be the first sign
2. Type 2 Diabetes
  - a. 90-95% of cases
  - b. Often asymptomatic
  - c. Some insulin is produced

# **Sample Outline For Diabetes Research Paper**

**Irene Dankwa-Mullan, Eliseo J. Pérez-  
Stable, Kevin L. Gardner, Xinzhi  
Zhang, Adelaida M. Rosario**

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**Summary report of the second National Conference on High Blood Pressure Control in Native American Communities, November 6-7, 1980, Tulsa, Oklahoma**, 1982 Compendium of HHS Evaluations and Relevant Other Studies, 1990 **Testimony of the Secretary of Health and Human Services. Special reports** United States. Congress. House. Committee on Appropriations. Subcommittee on Departments of Labor, and Health, Education, and Welfare, and Related Agencies, 1980 **Morbidity and Mortality Weekly Report**, 1997 Research Activities, 2003 **The Science of Health Disparities Research** Irene Dankwa-Mullan, Eliseo J. Pérez-Stable, Kevin L. Gardner, Xinzhi Zhang, Adelaida M. Rosario, 2021-03-16 Integrates the various disciplines of the science of health disparities in one comprehensive volume The Science of Health Disparities Research is an indispensable source of up to date information on clinical and translational health disparities science Building upon the advances in health disparities research over the past decade this authoritative volume informs policies and practices addressing the diseases disorders and gaps in health outcomes that are more prevalent in minority populations and socially disadvantaged communities Contributions by recognized scholars and leaders in the field featuring contemporary research conceptual models and a broad range of scientific perspectives provide an interdisciplinary approach to reducing inequalities in population health encouraging community engagement in the research process and promoting social justice In depth chapters help readers better understand the specifics of minority health and health

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**Compendium of HHS Evaluations and Relevant Other Studies** HHS Policy Information Center (U.S.), 1990

**Work-Related Musculoskeletal Disorders** National Research Council, Division of Behavioral and Social Sciences and

Education, Board on Human-Systems Integration, Steering Committee for the Workshop on Work-Related Musculoskeletal Injuries: The Research Base, 1999-04-11 Estimated costs associated with lost days and compensation claims related to musculoskeletal disorders including back pains and repetitive motion injuries range from 13 billion to 20 billion annually This is a serious national problem that has spurred considerable debate about the causal links between such disorders and risk factors in the workplace This book presents a preliminary assessment of what is known about the relationship between musculoskeletal disorders and what may cause them It includes papers and a workshop summary of findings from orthopedic surgery public health occupational medicine epidemiology risk analysis ergonomics and human factors Topics covered include the biological responses of tissues to stress the biomechanics of work stressors the epidemiology of physical work factors and the contributions of individual recreational and social factors to such disorders The book also considers the relative success of various workplace interventions for prevention and rehabilitation *Research Advances in Gestational Diabetes Mellitus, Neonatal Diabetes Mellitus, and Metabolic Disorders* Ihtisham Bukhari, Furhan Iqbal, Rick Francis Thorne, 2022-09-05 **Public Health Reports**, 1966 *MEDINFO 2017: Precision Healthcare through Informatics* Marie-Christine Jaulent, Dongsheng Zhao, 2018-01-15 Medical informatics is a field which continues to evolve with developments and improvements in foundational methods applications and technology constantly offering opportunities for supporting the customization of healthcare to individual patients This book presents the proceedings of the 16th World Congress of Medical and Health Informatics MedInfo2017 held in Hangzhou China in August 2017 which also marked the 50th anniversary of the International Medical Informatics Association IMIA The central theme of MedInfo2017 was Precision Healthcare through Informatics and the scientific program was divided into five tracks connected and digital health human data science human organizational and social aspects knowledge management and quality and safety and patient outcomes The 249 accepted papers and 168 posters included here span the breadth and depth of sub disciplines in biomedical and health informatics such as clinical informatics nursing informatics consumer health informatics public health informatics human factors in healthcare bioinformatics translational informatics quality and safety research at the intersection of biomedical and health informatics and precision medicine The book will be of interest to all those who wish to keep pace with advances in the science education and practice of biomedical and health informatics worldwide **American Directory of Writer's Guidelines**, 2007-02 Perhaps the best kept secret in the publishing industry is that many publishers both periodical publishers and book publishers make available writer s guidelines to assist would be contributors Written by the staff at each publishing house these guidelines help writers target their submissions to the exact needs of the individual publisher The American Directory of Writer s Guidelines is a compilation of the actual writer s guidelines for more than 1 700 publishers A one of a kind source to browse for article short story poetry and book ideas **Principles and Practice of Clinical Research** John I. Gallin, Frederick P Ognibene, 2012-05-31 This expanded third edition provides an introduction to the

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Viktor,2022-06-24 Education inevitably influences society and our future As literature and experience tells educational leaders impact not only their institutions but ultimately the learning outcomes for a large portion of society s members Educational leaders are charged with more than creating a viable future for an institution they are also charged with contributing to and creating a viable positive human future not an easy task amid the turbulence and disruption of our times The Handbook of Research on Educational Leadership and Research Methodology discusses the evolution of educational leadership knowledge thoughts and practices by sharing the perspectives experiences theories and philosophies related to educational leadership and research methodologies across all levels of education Covering topics such as critical race design toxic leadership and adult learning this major reference work is a critical resource for faculty and administrators of both K 12 and higher education principals superintendents chancellors directors pre service teachers teaching instructors government

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web for oil spill cleanup operations where 1 the site has been fully characterized 2 respirators are not required and 3 minimal exposure is likely a minimum of four hours of training would be appropriate in most situations 2 moreover oil spills are unique in that many people who assist in the cleanup operations may not engage in this

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web shoreline clean up operations are often considered in three stages stage 1 bulk oil is removed from the shore to prevent remobilisation stage 2 removal of stranded oil and oiled shoreline material which is often the most protracted part of shoreline clean up and stage 3 final clean up of light contamination and removal of stains if

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