

80. Using the information in the table, calculate the temperature change  $\Delta T$  of the water in the first 100s.

$$\Delta T = 13^\circ\text{C}$$

$$\Delta T = 37^\circ\text{C}$$

81. Plot a graph of  $\Delta T/^\circ\text{C}$  against elapsed time in seconds for the first 180s.



82. Using the experimental rate of temperature change determine:

82a. Describe briefly how the results that you have calculated in part 80 show this trend.

$\Delta T$  is less than  $\Delta T_{\text{calculated}}$  as temperature decreases

82b. Describe briefly how the graph line shows this trend.

Decreasing gradient

Ms 0620 61 M J 10

**M Mark**



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**The Congregational Year-book** ,1898      **United States Civil Aircraft Register** ,1977      The Congregational Year-book ,1898      Advanced Approaches in the Diagnosis and Treatment of Diabetes Mellitus and Secondary Complications Pranav Kumar Prabhakar,Ram Prasad,Ponnurengam Malliappan Sivakumar,2023-10-23 As we know diabetes mellitus is the most common metabolic endocrine disorder According to the WHO and American Diabetes Mellitus diabetes mellitus is the 3rd leading cause of death if we were to include all secondary complications However without including secondary complications it is 7th place in mortality and morbidity The point to be considered in the case of diabetes mellitus is the secondary complications caused in this condition Almost all organs affected by diabetes and results in a potentially worse condition The major secondary complications are neuropathy nephropathy retinopathy and diabetes foot microvascular and macrovascular complications The long term complications grow slowly in the case of diabetes As the time living with diabetes becomes longer controlled glucose levels will be more difficult to achieve meaning there there will be more long term complications The aim of the current Research Topic on the secondary complications of diabetes and their management is to publish good quality research articles as well as reviews which should address the management of diabetes abnormalities of secondary complications and other disease involved in diabetes Potential Topics includes but not restricted to Secondary complications of diabetes mellitus Microvascular and macrovascular complications The role of oxidative stress in the diabetes burden New insights in glycemic control New strategies approaches to manage secondary complications such as Stearoyl CoA dismutase Acetyl CoA Carboxylase Adiponectin Adipocyte complement related protein 30 Hormone Sensitive Lipase HSL Inhibitors Recent development in the therapeutic approaches for glucose management such as Protein tyrosine phosphatase 1B PTP1B inhibitors Glycogen synthase kinase 3 GSK3 inhibitors 3 Adrenergic receptor agonist Retinoid X receptor PPAR agonist AMP activated protein kinase Development of new target as a target for antihyperglycemic drug designing

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**Cardio-Oncology: From Bench to Bedside** Jun-ichi Abe,Anil K. Sood,James Martin,2019-05-17 Cardio oncology is a medical subspecialty concerned with the diagnosis and treatment of cardiovascular disease CVD and organ failure mediated by micro to macro circulation defects in cancer patients and survivors The risk of CVD in cancer survivors is eight times higher than the general population and the relative risk of coronary artery disease and heart failure HF is 10 times and 15 times higher respectively compared to their siblings without cancer It is important to note that cancer treatments including chemotherapy and radiation can lead to both short 1 year and long term 5 years cardiovascular complications Previously Dr Edward T H Yeh initiated the MD Anderson Practice MAP project and published 16 MAPs to provide the current best practice we considered at UT MD Anderson As shown in these MAPs one of the key issues of cardio oncology practice and science is how we can allow cancer patients to receive maximum and uninterrupted treatments for cancer while protecting them from cancer therapy mediated cardiovascular complications Therefore it is crucial to understand not only pathophysiology of CVD but also mechanistic insights of how each cancer treatment can control cancer growth and metastasis Without having the profound knowledge in the pathophysiological clinical and epidemiologic aspects of cardiovascular complications of existing cancer therapy it is impossible to establish the strong evidence based strategies and approaches for both short and long term cardiovascular complications after cancer treatment In addition we believe that cardio oncology science should not be restricted to deal with the side effects of each specific cancer drug because many common cardiovascular phenotypes among the different cancer treatments are also observed This Research Topic provides a comprehensive overview from both of the current research and practice and a platform for obtaining the logical and up to date treatment and prevention of CVD in cancer patients and survivors

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