



Understanding Diabetes

Glucose metabolism

Glucose is the primary source of energy for the body's cells. It is transported from the liver to the cells through the bloodstream. In the cells, glucose is broken down into pyruvate, which is then converted into energy. The liver also stores glucose as glycogen for later use.

Glucagon signals the liver to convert glycogen to glucose and release the glucose into the blood.

Function of insulin

Insulin is a hormone that allows glucose to enter the cells. It is produced by the beta cells of the pancreas. In people with diabetes, the pancreas does not produce enough insulin, or the body's cells do not respond to it properly.

Action of insulin

Type I



In Type I diabetes, the pancreas does not produce enough insulin. This causes glucose to build up in the blood, leading to high blood sugar levels.

Type II



In Type II diabetes, the body's cells do not respond properly to insulin. This means that even though the pancreas produces insulin, it cannot do its job of allowing glucose to enter the cells.

Normal



The insulin allows glucose to enter the cells and be used for energy.

Glucose

Glucose Glycogen

Insulin stimulates cells to take up glucose

What is diabetes?

Diabetes is a chronic condition that affects the way the body uses glucose. There are two main types: Type 1 and Type 2. In Type 1, the body does not produce enough insulin. In Type 2, the body's cells do not respond properly to insulin.



Glucose is converted to triglycerides and stored in fat (adipose tissue)

- Symptoms of diabetes**
- Increased thirst, urination
 - Increased hunger
 - Weight loss
 - Blurred vision
 - Slow-healing sores
 - Frequent infections
 - Extreme fatigue

The beta cells in the pancreas convert it into glucose and store it

Health complications

Kidney damage

High blood sugar can damage the kidneys over time. This is called diabetic nephropathy. It can lead to kidney failure, which may require dialysis or a kidney transplant.



Vision problems

High blood sugar can cause changes in the shape of the lens in the eye, leading to blurry vision. It can also damage the blood vessels in the retina, leading to diabetic retinopathy.



Heart disease

High blood sugar increases the risk of heart disease and stroke. It can lead to atherosclerosis, where the arteries become narrowed and hardened.



Nerve damage

High blood sugar can damage the nerves, leading to numbness, tingling, and pain. This is called diabetic neuropathy. It can also lead to foot ulcers and infections.

Treatment and healthy lifestyle changes

Diabetes treatment involves a combination of medication, diet, and exercise. For Type 1 diabetes, insulin therapy is essential. For Type 2 diabetes, lifestyle changes and oral medications are often the first step. Regular monitoring of blood sugar levels is crucial for managing the condition.

Understanding Diabetes Paper Chart

Victor M. Corman



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The Publishers' Trade List Annual ,1976 *U.S. Government Books* ,1982 **Collected Papers by the Staff of Henry Ford Hospital** Henry Ford Hospital, 1926 **Kentucky Medical Journal** ,1930 **New York State Journal of Medicine** ,1916

Understanding Type 2 Diabetes Anatomical Chart Company, Anatomical Chart Company Staff, 2006-02-13 The Second Edition of our *Understanding Type 2 Diabetes Anatomical Chart* has been simplified for easier and faster comprehension The chart defines type 2 diabetes and the role of glucose and insulin in the body and lists symptoms risk factors and ways to control the disease This revised chart shows glucose molecules from the digestive system and insulin molecules from the pancreas traveling in a blood vessel Illustrations visually compare a normal body cell to a body cell with diabetes and show when the cell develops a resistance to insulin making it more difficult for glucose to enter the cell and leading to build up of glucose in the blood vessel The chart textually and visually presents complications from the disease

heart disease stroke vascular disease nerve damage neuropathy kidney disease nephropathy periodontal disease gum disease and mouth infection and eye diseases such as glaucoma cataracts and diabetic retinopathy Available in Spanish and English Made in USA Available in the following versions 20 x 26 heavy weight paper laminated with grommets at top corners ISBN 9781587799563 20 x 26 heavy weight paper ISBN 9781587799556 20 x 26 heavy weight paper laminated with grommets at top corners Spanish ISBN 9781587799587 20 x 26 heavy weight paper Spanish ISBN 9781587799570 Pumping Insulin John Walsh (P.A.), Ruth Roberts (M.A.), 1994 *Automating the Medical Record* Thomas F. Landholt, 1999 This book addresses one of the most stimulating topics under discussion in medical practices electronic medical records The issue isn't whether computers should be used in medicine but making the transition to a new method of documenting patient care and viewing patient data This book is for anyone who is interested in or involved with the management of a medical practice or anyone who would like to know the how to along with the why of electronic medical records ... **Transactions of the ... Annual Meeting** National Tuberculosis Association, 1919 *Sorcerer's Apprentice* Judith Gregory, 2000 Physiological Reviews, 1921 **Cardiovascular Therapeutics** Elliott M. Antman, 2002 Building on the strong foundation provided by the 6th edition of Braunwald's Heart Disease this thoroughly revised and updated reference is now more user friendly and clinically useful than ever Extensively cross referenced with tables and figures it facilitates the decision making process clinicians face when choosing among various cardiovascular therapeutic options This new edition of Cardiovascular Therapeutics covers the latest concepts in pathophysiology evaluation and management of patients with cardiovascular disorders in partnership with the Braunwald text for a comprehensive yet focused clinical resource Reflects the information explosion that has occurred in cardiovascular therapeutics over the past five years Contains cutting edge information on pharmacotherapeutic surgical and catheter based therapies for cardiovascular disease Features an emphasis on user friendly clinically relevant information in a format that is fast and easy to access Extensive details of all interventions are highlighted in text tables and crisp high quality illustrations Provides an up to date source for interpretation of clinical data drug interactions available devices and indications for therapy A new section on Decision Making Tools describes the principles of test analysis design and interpretation of randomized trials the use of cost effectiveness and decision analysis and bedside assays for assessment of cardiovascular therapeutics Three new appendices offer a thorough index of all the drugs and technological support devices commonly used in contemporary cardiovascular therapeutics particularly regarding dose recommendations and drug interactions Contains 13 all new chapters plus 41 chapters that have undergone major revision and or feature new authors An extremely useful table shows modification of Sicilian Gambit classification of AA Rx and effects on ECG Covers important revisions on the latest RCT data on the use of stents Features excellent surgical diagrams for MV repair Discusses cutting edge catheter based approaches to management of adults with congenital heart disease e.g. closure of ASDs **Memory** Barry Gordon, 1996-12 Dr Gordon tells you why you forget the way you do how to increase and

improve your memory the amazing feats your memory performs daily and about extraordinary clinical tales of memory loss as well as the affect of stress or depression on the memory Publisher *The Journal of the American Dental Association* ,1926
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