

Name of Journal: *World Journal of Diabetes*

ESPS Manuscript NO: 21754

Manuscript Type: Minireviews

Milestones²² in the history of diabetes mellitus: The main contributors

Marianna Karamanou, Athanase Protogerou, Gregory Tsoucalas George Androutsos, Effie Poulakou-Rebelakou

Abstract

Diabetes mellitus is a group of metabolic diseases involving carbohydrate, lipid, and protein metabolism. It is characterized by persistent hyperglycemia which results from defects in insulin secretion, or action or both. Diabetes mellitus has been known since antiquity. Descriptions have been found in the Egyptian papyri, in ancient Indian and Chinese medical literature, as well as, in the work of ancient Greek and Arab physicians. In the 2nd century AD Aretaeus of Cappadocia provided the first accurate description of diabetes, coining the term diabetes, while in 17th century Thomas Willis added the term mellitus to the disease, in an attempt to describe the extremely sweet taste of the urine. The important work of the 19th century French physiologist Claude Bernard, on the glycogenic action of the liver, paved the way for further progress in the study of the disease. In 1889, Oskar Minkowski and Joseph von Mering performed their famous experiment of removing the pancreas from a dog and producing severe and fatal diabetes. In 1921, Frederick Banting and Charles Best extended Minkowski's and Mering's experiment. They isolated insulin from pancreatic islets and administered to patients suffering from type 1 diabetes, saving thus the lives of millions and

Match Overview

1	Internet 119 words crawled on 01-Oct-2012 www.hormones.gr	3%
2	Internet 96 words crawled on 30-Nov-2012 friedmandiabetesinstitute.com	2%
3	CrossCheck 48 words Magner, . "Physiology", A History of the Life Sciences Revised and Expanded, 2002.	1%
4	Internet 45 words crawled on 11-Dec-2014 bjp.rcpsych.org	1%
5	Internet 32 words crawled on 23-Oct-2011 www.adoop.cn	1%
6	CrossCheck 32 words Gary K. Steinberg. "Book Review Thomas Willis 1621-1675: His Life and Work (Eponymists in Medicine.) by J. Tr	1%
7	CrossCheck 27 words Houssary, B. A. "The Discovery of Pancreatic Diabetes: The Role of Oscar Minkowski", Diabetes, 1952.	1%
8	CrossCheck 21 words Tattersall, Robert. "THE DISCOVERY OF INSULIN", Nobel Prizes That Changed Medicine, 2011.	<1%
9	CrossCheck 21 words Henschen, Folke. "On the term diabetes in the works of Aretaeus and Galen", Medical History, 1969.	<1%
10	CrossCheck 21 words Transplantation of the Pancreas, 2004.	<1%

[全部](#) [图片](#) [视频](#) [新闻](#) [地图](#) [图书](#)

找到约 2,630,000 条结果

[Diabetes History - History of Diabetes Mellitus - Diabetes.co.uk](#)

www.diabetes.co.uk/diabetes-history.html ▼

The **history of diabetes started** in approximately 1550BC. An Egyptian papyrus mentions a rare disease that **causes** the patient to lose weight rapidly and urinate ...

[History of Diabetes: American Diabetes Association®](#)

www.diabetes.org/research-and.../history-of-diabetes.html ▼

9 May 2014 ... **Key moments in the history of diabetes** research and treatment, starting ... Elliott Joslin, MD, publishes the first edition of The Treatment of **Diabetes Mellitus**. ... though the **contributions** of all four men have been recognized as ...

[Causes of Diabetes](#)

www.niddk.nih.gov/health.../Diabetes/causes-diabetes/.../index.aspx ▼

Defines diabetes and discusses the **causes** of type 1, type 2, and gestational ... The two **main** types of diabetes are type 1 diabetes and type 2 diabetes. ... In the past, type 1 diabetes was called juvenile diabetes or insulin-dependent **diabetes mellitus**. ... Having a family **history of diabetes** is also a risk factor for gestational ...

[Diabetes Mellitus: A Complete Ancient And Modern Historical ...](#)

https://www.webmedcentral.com/article_view/4831 ▼

15 Feb 2015 ... **Diabetes mellitus**: a complete ancient and modern **historical** perspective ... complications, or rapidly emerging symptoms **leading** to complications and/or coma. ... Developmental **milestones** in diabetes reflect improvements in the ... Medical historians rarely mentioned the **contributions** of Aëtius of Amida, ...

[History of diabetes - Wikipedia, the free encyclopedia](#)

https://en.wikipedia.org/wiki/History_of_diabetes ▼

Diabetes mellitus appears to have been a death sentence in the ancient era. ... Like Aretaeus before him, Avicenna recognized a **primary** and secondary ...

[History of diabetes mellitus](#)

www.researchgate.net/publication/256294739_History_of_diabetes_mellitus

History of diabetes mellitus on ResearchGate, the professional network for scientists. ... An important **milestone in the history of diabetes** is the establishment of the role of ... With **contributions** from some of my colleagues, this book provides a clear ... throughout the world, and it is the 16th **leading** cause of global mortality [4].



[全部](#) [图片](#) [新闻](#) [视频](#) [地图](#) [更多](#) [搜索工具](#)

找到约 1,690,000 条结果 (用时 0.62 秒)

Diabetes History - History of Diabetes Mellitus - Diabetes.co.uk

www.diabetes.co.uk/diabetes-history.html [▼ 翻译此页](#)

The **history of diabetes started** in approximately 1550BC. An Egyptian papyrus mentions a rare disease that **causes** the patient to lose weight rapidly and urinate ...

History of Diabetes: American Diabetes Association®

www.diabetes.org > [Research & Practice](#) > [Student Resources](#) [▼ 翻译此页](#)

2014年5月9日 - **Key moments in the history of diabetes** research and treatment, starting ... Elliott Joslin, MD, publishes the first edition of *The Treatment of Diabetes Mellitus*, ... though the **contributions** of all four men have been recognized as ...

Causes of Diabetes

www.niddk.nih.gov/.../Diabetes/causes-diabetes/.../index.aspx [▼ 翻译此页](#)

Defines diabetes and discusses the **causes** of type 1, type 2, and gestational ... The two **main** types of diabetes are type 1 diabetes and type 2 diabetes. ... In the past, type 1 diabetes was called juvenile diabetes or insulin-dependent **diabetes mellitus**. ... Having a family **history of diabetes** is also a risk factor for gestational ...

缺少字词: [milestones](#)

Diabetes Mellitus: A Complete Ancient And Modern ...

https://www.webmedcentral.com/article_view/4831 [▼ 翻译此页](#)

作者: C Nwaneri - 2015 - [相关文章](#)

2015年2月15日 - Developmental **milestones** in **diabetes** reflect improvements in the ... The overview of the **history of diabetes**, starting from the ancient time to the ... Medical historians rarely mentioned the **contributions** of Aëtius of Amida, ... heralded new research directions **leading** to the discovery of insulin in 1921 by ...

History of diabetes - Wikipedia, the free encyclopedia

https://en.wikipedia.org/wiki/History_of_diabetes [▼ 翻译此页](#)

Diabetes mellitus appears to have been a death sentence in the ancient era. ... Like Aretaeus before him, Avicenna recognized a **primary** and secondary ...

缺少字词: [milestones](#)

History of diabetes mellitus - ResearchGate



全部 新闻 图片 视频 地图 更多 ▾ 搜索工具

找到约 2,280,000 条结果 (用时 0.79 秒)

Diabetes History - History of Diabetes Mellitus - Diabetes.co.uk

www.diabetes.co.uk/diabetes-history.html ▾ 翻译此页

The **history of diabetes started** in approximately 1550BC. An Egyptian papyrus mentions a rare disease that **causes** the patient to lose weight rapidly and urinate ...

缺少字词: milestones

History of Diabetes: American Diabetes Association®

www.diabetes.org > Research & Practice > Student Resources ▾ 翻译此页

2014年5月9日 - **Key moments in the history of diabetes** research and treatment, starting ... Elliott Joslin, MD, publishes the first edition of The Treatment of **Diabetes Mellitus**..... though the **contributions** of all four men have been recognized as ...

Causes of Diabetes

www.niddk.nih.gov/.../Diabetes/causes-diabetes/.../index.aspx ▾ 翻译此页

Defines diabetes and discusses the **causes** of type 1, type 2, and gestational ... The two **main** types of diabetes are type 1 diabetes and type 2 diabetes. ... In the past, type 1 diabetes was called juvenile diabetes or insulin-dependent **diabetes mellitus**. Having a family **history of diabetes** is also a risk factor for gestational ...

缺少字词: milestones

Diabetes Mellitus: A Complete Ancient And Modern ...

https://www.webmedcentral.com/article_view/4831 ▾ 翻译此页

作者: C Nwaneri - 2015 - 相关文章

2015年2月15日 - Developmental **milestones in diabetes** reflect improvements in the ...

The overview of the **history of diabetes**, starting from the ancient time to the ... Medical historians rarely mentioned the **contributions** of Aëtius of Amida, heralded new research directions **leading** to the discovery of insulin in 1921 by ...