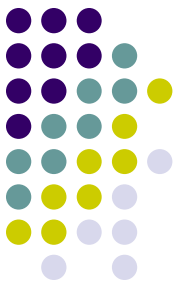


Q

Type 1 DM



1

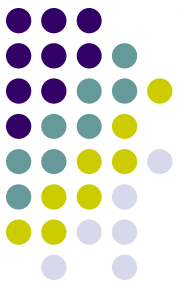
Type 1 (T1) DM has two other names, one or both of which are considered obsolete by the Academy. What are these other names?

--

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A

Type 1 DM



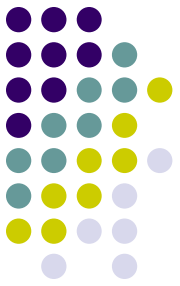
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Q

Type 1 DM

3

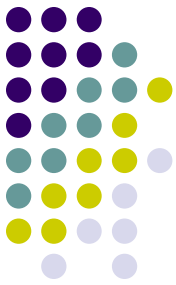


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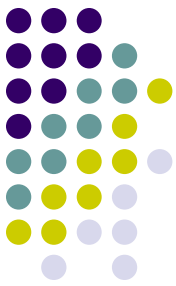
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It means that whether a term is 'in play' depends on which BCSC book you ask. Specifically:

- The *Fundamentals* book indicates both terms are obsolete;
- The *Peds* book considers *juvenile-onset* obsolete, but uses *IDDM* as a synonym for T1 DM; and
- The *Retina* book considers *IDDM* obsolete, and doesn't mention *juvenile-onset* at all



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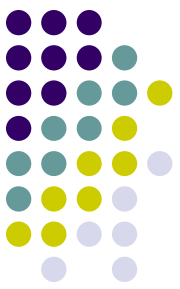
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Since all three books use 'T1 DM,' prolly best to stick with it.

Q

Type 1 DM



- Fundamental pathology:

A

Type 1 DM



- Fundamental pathology: An inability of the pancreas to produce adequate volume of insulin

Q

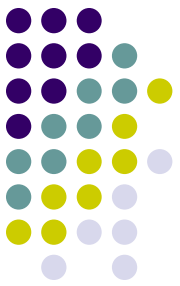
Type 1 DM

8



- Fundamental pathology: An inability of the pancreas to produce adequate volume of insulin

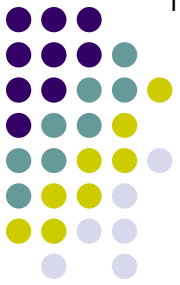
What process leads to this inadequacy?



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What process leads to this inadequacy?

Autoimmune-mediated destruction of pancreatic  cells



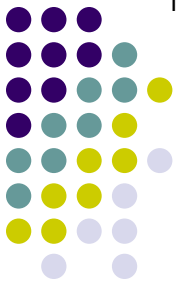
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Q

Type 1 DM

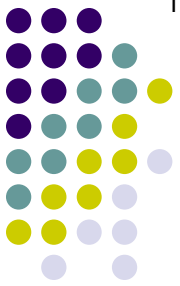


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What kicks off this unfortunate autoimmune process?




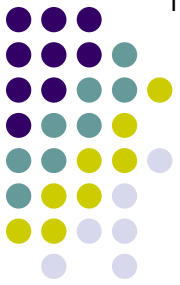
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It's not known for sure, but is felt to be an interplay between genetic susceptibility and an environmental trigger (likely a  infection)



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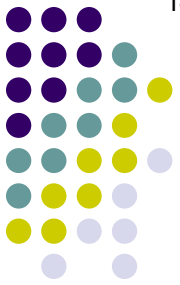
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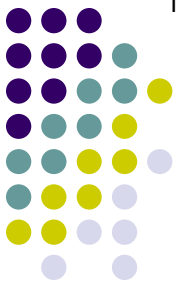
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- The peak incidence of T1 DM onset coincides with the peak incidence of the onset of developmental milestone

A

Type 1 DM



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Q

Type 1 DM

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Can T1 DM develop in adulthood?

A

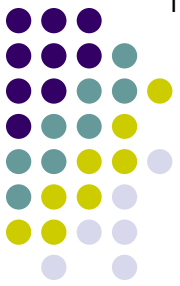
Type 1 DM



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Can T1 DM develop in adulthood?

Indeed it can, and this is a very important fact to bear in mind!



Q

Type 1 DM

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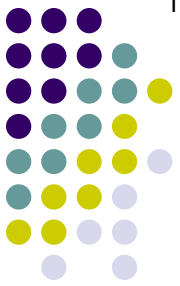
Can T1 DM develop in adulthood?

Indubitably, but this is a fact that is not to be borne in mind!

What percent of cases develop after age 35?

A

Type 1 DM



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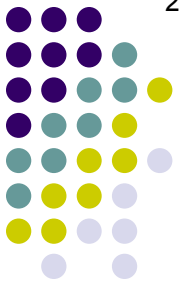
Can T1 DM develop in adulthood?

Indubitably, but this is a fact that is not for to bear in mind!

What percent of cases develop after age 35?
25%

Q

Type 1 DM



- Fundamental pathology: An inability of the pancreas to produce adequate volume of insulin
- The peak incidence of T1 DM onset coincides with the peak incidence of the onset of puberty
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developmental milestone



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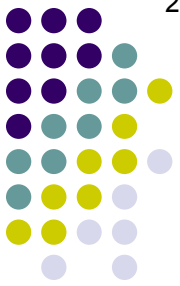


Q

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Why these relationships between puberty and onset, and puberty and the development of DBR?

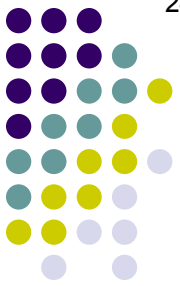


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Why these relationships between puberty and onset, and puberty and the development of DBR?
As of this writing, this issue is not addressed in the BCSC

Q

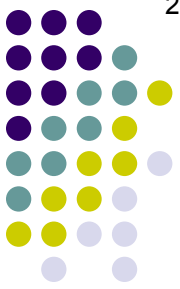
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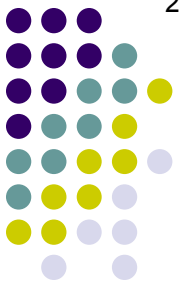
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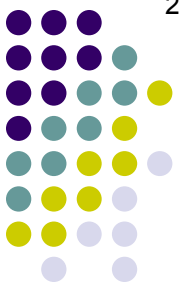
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But I read somewhere that half of T1 DM have retinopathy after 7 years. What's the dealio?



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But I read somewhere that half of T1 DM have retinopathy after 7 years. What's the dealio?

This is true--half have retinopathy after 7 years. However, most of these individuals have clinically *inapparent* retinopathy; ie, it's detectable only via angiography.

Q

Type 1 DM



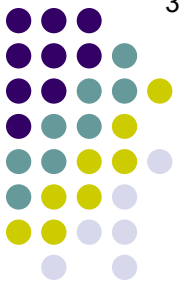
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 - PDR rare vs common in pediatric population



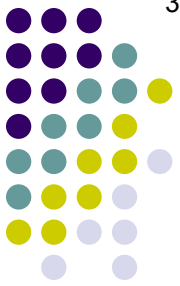
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Q

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Speaking of T1 DM: What is Wolfram syndrome?

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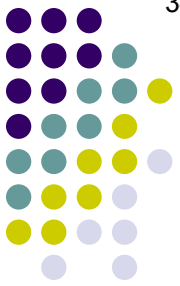


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Speaking of T1 DM: What is Wolfram syndrome?

A pediatric condition characterized by multiple endocrine and neurologic abnormalities

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Q

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Speaking of T1 DM: What is Wolfram syndrome?

A pediatric condition characterized by multiple endocrine and neurologic abnormalities

What is the classic set of such abnormalities?

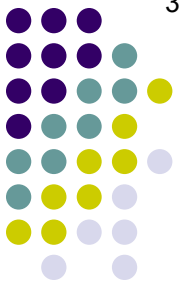
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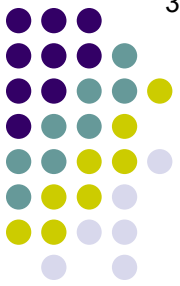
- Diabetes
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 Mellitus
- Optic
 Atrophy
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Q

Type 1 DM



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Mellitus

-- Optic

Atrophy

-- Deafness

By what other name is Wolfram syndrome known?

- PDR rare in pediatric population

- Screening guideline: Annual DFE commencing 5 years after dz onset



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*Speaking of T1 DM: What is **Wolfram syndrome**? aka... **DIDMOAD syndrome***

A pediatric condition characterized by multiple endocrine and neurologic abnormalities

What is the classic set of such abnormalities?

--**D**iabetes

Insipidus

--**D**iabetes

Mellitus

--**O**ptic

Atrophy

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