What is diabetes?
Diabetes mellitus, often referred to simply as diabetes, is a chronic disease. It occurs when the pancreas does not produce insulin, or when the body cannot effectively use insulin. Insulin helps to regulate the blood sugar level. Elevated blood sugar is a common effect of uncontrolled diabetes and over time seriously damages many organs of the body, especially the nerves and blood vessels.\(^1\)

Main Types

Type 1 diabetes occurs when the pancreas cannot produce insulin. Without insulin, this type rapidly becomes fatal. This type was previously called insulin-dependent or juvenile-onset diabetes. Symptoms of type 1 diabetes may occur suddenly.

Type 2 diabetes develops when the body cannot effectively use insulin. Type 2 accounts for 90–95 percent of people with diabetes nationwide.\(^2\) It was formerly called non-insulin-dependent or adult-onset diabetes. Its symptoms are often less marked. Thus, type 2 may be diagnosed several years after onset, when complications have already arisen. Check your risk of type 2 diabetes.

Gestational diabetes is a form of glucose intolerance during pregnancy, and is usually diagnosed through prenatal screening, rather than reported symptoms. Women who have had gestational diabetes are more likely to develop type 2 diabetes later in life.\(^1\)

Risk Factors

- Age (>45 years)
- Obese or overweight
- Family history
- Gestational diabetes
- Habitual inactivity
- Race (minorities)
- Pre-diabetes†
- High blood pressure
- High cholesterol

Check your diabetes risk

Symptoms

- Excessive thirst
- Frequent urination
- Constant hunger
- Frequent infections
- Very dry skin
- Frequent infections

Consequences

- Blindness
- Nerve disorders
- Kidney failure
- Heart disease
- Stroke
- Diarrhea
- Sexual dysfunction
- Foot ulcers
- Amputation
- Teeth loss

What is the burden of diabetes?
In 2007, it is estimated that 387,247 Missouri adults suffered from diabetes, with a prevalence of 8.7 per 100 people. The prevalence rate was highest in people over 65 years, males, and Hispanics. Diabetes also led to numerous emergency room visits, hospitalizations and deaths, and hospital costs totaled $87.7 million in 2006. In addition, 97,924 Missouri adults had pre-diabetes. For detailed data, please use the six links in the following table.

<table>
<thead>
<tr>
<th>Disease</th>
<th>Burden</th>
<th>Year</th>
<th>Whole State</th>
<th>People with Highest Rate</th>
<th>Click a Link for Detailed Data</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Number</td>
<td>Rate</td>
<td></td>
</tr>
<tr>
<td>Diabetes</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Prevalence(^a,)</td>
<td>2007</td>
<td>387,247</td>
<td>8.7 per 100</td>
<td>age ≥65, males, Hispanics</td>
<td>prevalence</td>
</tr>
<tr>
<td>Emergency Room Visits(^a,)</td>
<td>2006</td>
<td>9,852</td>
<td>1.6 per 1,000</td>
<td>age ≥65, blacks</td>
<td>emergency</td>
</tr>
<tr>
<td>Hospitalizations(^b,)</td>
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<tr>
<td>Death(^b,)</td>
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<td>cost</td>
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\(^{a}\) In adults. \(^{b}\) In all age groups.

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**Diabetes Fact Sheet, Missouri, 2008**

http://www.dhss.mo.gov/diabetes/FactSheet.pdf

**Diabetes**

Diabetes Department of Health & Senior Services

1-800-316-0935

www.dhss.mo.gov/diabetes

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**Burden of Diabetes in Missouri, 2006 or 2007**

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\(^{a}\) In adults. \(^{b}\) In all age groups.
How is diabetes prevented?
Choosing a healthy lifestyle and using medication can largely prevent or delay the onset of type 2 diabetes.1
• Reduce fat amount in foods, and eat more fiber-rich foods, vegetables and fruits.
• Increase physical activity to moderate intensity, at least 30 minutes on most days.
• Keep body weight normal (body mass index, 18.5 – 24.9).
• Follow doctor’s indication to use the drug metformin if a person has pre-diabetes and is at high risk for progression to diabetes.

Why is early diagnosis important?
Diagnosis of pre-diabetes provides a chance to prevent the onset of diabetes; early diagnosis for diabetes provides the opportunity to prevent development of complications. An inexpensive blood test can accomplish early diagnosis.

How is diabetes treated?
Diabetes cannot be cured, but proper treatment can delay or prevent development of diabetes and its complications. Treatment must be comprehensive and individually specific; the key is to keep blood glucose levels as near normal as possible. While controlling blood sugar tends to dominate the care of type 1 diabetes, the management of type 2 diabetes must also include treating associated conditions (high cholesterol, etc.) and screening for/managing complications (eye disease, etc.).2
Good management should last for life and follow the Standards of Care.

Resource organizations

Data sources
3. Missouri County Level Study 2007– http://www.dhss.mo.gov/CommunityDataProfiles/
7. Calculated with a) charge-to-cost ratios and b) hospital charges from MICA, 2006 – http://www.dhss.mo.gov/DCDoCMICA/