

Joseph E. Kernan  
Governor

Gregory A. Wilson, M.D.  
State Health Commissioner



# Indiana State Department of Health

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August 16, 2004

Paul Tubiana  
PO Box 21832  
Lehigh Valley, PA 18002

Dear Mr. Tubiana:

Thank you for your correspondence to Governor Joseph Kernan regarding diagnostic testing for Type 1 and Type 2 diabetes. Your letter has been forwarded to the Indiana State Department of Health (ISDH) for response.

Type 1 usually occurs in children and young adults but can appear in adults, with rapid onset. Type 1 diabetes occurs when the body's immune system attacks the insulin-producing beta cells in the pancreas and destroys them. Thus, the pancreas produces little or no insulin and the individual must take insulin through injections or an insulin pump. Approximately 5-10 percent of individuals have this type of diabetes. (This type had been called juvenile onset or insulin dependent diabetes mellitus, IDDM.)

Type 2 develops most often in middle-aged and older adults but can appear in younger individuals. Type 2 occurs when the body fails to produce enough insulin or fails to properly use insulin. Type 2 diabetes accounts for 90-95 percent of all diagnosed cases of the disease. (This type had been called adult onset or non-insulin dependent diabetes mellitus, NIDDM.)

The c-peptide test you mention in your correspondence is often used to help diagnose Type 1 and Type 2 diabetes. While there is little or no c-peptide in blood of Type 1 diabetics, c-peptide levels in Type 2 diabetics can be reduced or normal.

However, with regard to your theory that *Staphylococcus Aureus* in the nasal sinus causes diabetes, this would require further research which is usually funded by federal agencies.

Sincerely,

GREGORY A. WILSON, M.D.  
STATE HEALTH COMMISSIONER