The Clinical Impact of eHealth on the Self-Management of Diabetes: A Double Adoption Perspective

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University of Lethbridge

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University of British Columbia – Okanagan
Agenda

• **Summary of Study**
  - Context of Study
  - Research Framework
    - Double Adoption Perspective

• **Issues in Designing and Implementing Healthcare IT**
  - Negotiating innovation and non-innovation
  - Innovation Risk
  - Uncertainty

• **Opportunities and Challenges—Linking IT adoption and Healthcare Outcomes**
  - Opportunities
    - IT Informing Healthcare
  - Challenges
    - Paradox
    - Generalizability

• **Publishing eHealth Research**
Summary of Study

• Context of Study
  • Action Research
  • Building Healthy Lifestyle Program (BHL)
  • Diabetes Epidemic (Canadian Diabetes Association, 2009)
  • e-Health System
    • Portal
    • Blood Glucose Journal

• Research Method
WELCOME CHIASSON

Diabetes is a chronic lifelong condition in which your body cannot properly use the fuel (sugar) in the foods you eat. Insulin is needed to help the body use sugar for energy. When a person has diabetes, the pancreas either does not produce or produces very little insulin (resulting in Type 1 diabetes), or cannot use the insulin that is produced (causing Type 2 diabetes). When insulin is not available, the sugar from food stays in the bloodstream causing blood sugar to rise.

Approximately 2 million Canadians have diabetes. Another 750,000 have it and don’t know it.

“Knowledge is the most powerful medicine and it’s yours for the asking.”
Blood Glucose Journal

LOG BOOK - CHIASSON
Log Display Options

Start date: 03/12/2008
End: 08/04/2008
[Optional filters: Days with Data, Blood Glucose Only, Printer Friendly]

Enter Blood Glucose Data
Set your default meal and snack times by clicking on the "Your Profile" link at the top of the page. If you don't see a row for CHO (carbohydrate counting), Bolus and Correct (for intensive insulin), and you need these, please see the "Meds-Ins" section to add these treatment options.

Two Week Summary (from 08/04/2008 to 07/21/2008)

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Basal Insulin: Lantus 24

Comments:
exercise in the morning
Precede-Proceed Model
(Green & Kreuter, 2005, p. 10)
Double Adoption Research Model

Technology Adoption

- Predisposing Factor
- Reinforcing Factor (Web-based Communication)
- Enabling Factor

H1 \rightarrow H2 \rightarrow H3 \rightarrow H4

Web-based Learning Resource Use

- H5
- H6
- H7

Chronic Self-Care Adoption

- Predisposing Factor
- Reinforcing Factor
- Health-Related Behaviors
- Enabling Factor

H8 \rightarrow H9a \rightarrow H10 \rightarrow H11 \rightarrow H12

Health

H9b \rightarrow H13 \rightarrow H14 \rightarrow H15
Issues in Designing and Implementing Healthcare IT

• Negotiating innovation and non-innovation
• Innovation Risk
• Uncertainty
Opportunities and Challenges – Linking IT Adoption and Health Care Outcomes

• Opportunities
  • IT Informing Healthcare
    • Double Adoption and Diffusion
    • More complex picture

• Challenges
  • Paradox
    • Role of IT in Health Care
  • Generalizability
    • Portability
Publishing eHealth Research

• Challenges of Publishing Inter-disciplinary research
• Theorizing
• Where
Questions

Source: Office.com Clip Art