

Effect of group diabetes education class on clinical outcomes and patient satisfaction in a family medicine clinic



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Background

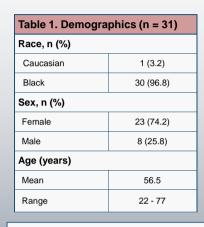
- Diabetes self-management education (DSME) is an ongoing process of teaching patients the knowledge, skills, and abilities necessary for diabetes self-care.
- Currently, there is no required format for providing DSME.
- •Approaches to diabetes education that are interactive and patientcentered have been associated with positive patient outcomes.
- •Conversation maps are interactive educational tools used to guide provider-patient conversations.

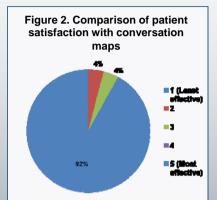
Purpose

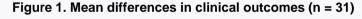
- •To determine the effect of group diabetes education classes on patient's hemoglobin A1c (Hgb A1c), blood pressure (BP) and lowdensity lipoprotein (LDL) cholesterol.
- ■To determine patient satisfaction with the group diabetes education classes compared to other learning methods.

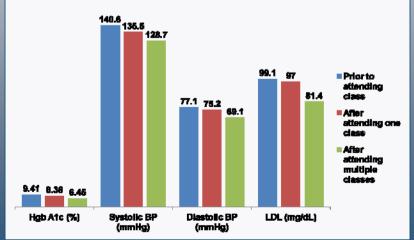
Methods

- •Four group diabetes education classes were held over the course of one calendar year, starting from July 2010 to June 2011.
- •Classes were taught using the American Diabetes Association's Diabetes Conversation Maps®.
- Participants were patients from the family medicine clinic who had been referred by their primary care physician to clinical pharmacists for further diabetes education.
- Patients' Hgb A1c, BP and LDL were monitored, if available, before and after each class attended.
- Patient satisfaction surveys were administered to each participant at the end of the year, either in person or over the phone.
- Approved by the MUSC Institutional Review Board.









Results

- •32 people attended at least one group diabetes class during the study period.
- Nine returned for more than one class
- •One was excluded due to incomplete data as participant was not a patient at the family medicine clinic
- Baseline demographics are shown in Table 1.
- •Figure 1 shows the differences in clinical outcomes for all patients and specifically, for those who attended multiple classes.
- •Percent change of 1.05% in Hgb A1c for all patients trended towards statistical significance (p = 0.0531). Those who attended more than one class showed a statistically significant change in their Hgb A1c by 3.5% (p <0.05).</p>
- ■80% (n = 25) of patients filled out a patient satisfaction survey at the end of the year.
- •Figure 2 shows the comparison of those satisfied with the conversation maps versus other educational tools.
- •Most patients (n = 21, 84%) reported more satisfaction with the group diabetes classes than with individual education sessions.
- In addition, the majority (n = 22, 88%) stated that they would most likely come back to another group diabetes class.

Conclusions

- Clinical outcomes including Hgb A1c, BP and LDL improved when patients attended group diabetes education classes led by pharmacists.
- ■Patients were satisfied with the group education class setting compared to other methods.
- •These data support offering group diabetes education classes as a method of patient education at a family medicine clinic.

Conflict of Interest

The authors have no conflicts to disclose.