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Introduction

To date there is no personal diabetes self-management (DSM) profile identification based on the two DSM dimensions that are ubiquitous in the field literature: engagement in the diabetes care activities performance and psychological adjustment with the condition.

Objectives: To describe distinctive DSM profiles in a large community cohort of adults with diabetes with selected self-reported outcomes, and 2) to describe these DSM profiles according to patients' socio-demographic and clinical characteristics.

Method

We used selected DSM self-reported outcomes from the 2014 follow-up data of the community-based cohort of adults with diabetes CoDiab-VD (N= 316).

Diabetes care activities performance

DSM behaviors: Summary of diabetes self-care activities healthy eating (4 items) α = 0.76; physical activity (2 items) *r*= 0.51; self-monitoring of blood glucose (SMBG, 2 items) *r*= 0.89; foot care (4 items) α = 0.62

Self-efficacy: Diabetes Self-Efficacy questionnaire (8 items) α = 0.89 **Empowerment**. Empowerment Scale-Short Form (8 items) α = 0.86

Psychological adjustment

Diabetes distress: Problem Areas In Diabetes (5 items) α = 0.94 **Quality of life (QOL)**: Audit of Diabetes-Dependent Quality of life (19 items)

α= 0.96

We conducted clustering analysis using Ward's method (agglomerative hierarchical procedure) and compared with k-means method (iterative partitioning procedure). We tested whether the clusters differed according to care delivery processes, socio-demographic and clinical characteristics.

Results





Fig 1. Dendrogram schematic for clusters identification.



Fig 2. Standardized scores for each variable used for cluster identification using Ward method.

Conclusions

The results could

help health professionals gain a better understanding of the different realities of people living with diabetes;

Fig 3. 2D Cartesian plot obtained by the averaged z-scores from variables used to identify clusters.

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- identify patients at risk of poor DSM-related outcomes;
- Iead to the development of specific-profile interventions including:
 - High self-appraiser profile: valuing and supporting long-term maintenance of the equilibrium between disease management and psychological adjustment;
 - Limited-engagement profile: strengthening motivation for disease management;
 - Strenuous profile: helping management of disease-related worries, and life-adjustment with the condition;
 - **Precarious profile**: deploying vigorous actions from various perspectives (e.g., treatment of depression, addressing issues related to comorbidities, insulin treatment, negative effects of financial insecurity).

Note: Profile names should be replaced by generic labels (e.g., colors) to avoid generating any feeling of judgment in patients.