An Exploration of Knowledge and Themes on Diabetes during Outpatient Consultation in a Tertiary Referral Hospital*

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Abstract

Objectives. Effective communication has been correlated with improved outcomes in diabetes mellitus. Patient comprehension bears an effect on understanding, improving healthcare access and utilization, interaction with healthcare providers, caring for one’s own health, and shared decision making. Currently, there is a gamut of information on diabetes-related terms from various sources. However, no material has yet been available for clinical use in the third world setting. Hence, we explored the most common themes discussed during an outpatient diabetes consult in our hospital.

Methodology. Consultation audio recordings (N = 96) and focus group discussions (N = 32) were conducted among adults with diabetes. Transcribed results underwent qualitative content and thematic analyses to develop the conceptual framework.

Results. The study generated the following themes: diabetes mellitus diagnosis, lifestyle modification, treatment targets, hypoglycemia precautions, diabetes complications, and medication safety. There was a good understanding of these themes among patients with a higher educational attainment, however, among those with lower educational attainment, the attitude of patients toward diabetes care is paternalistic.

Conclusion. The themes discussed in outpatient diabetes consult reflects the dimensions of diabetes care mainly influenced by socio-cultural factors, patient-doctor relationships and adaptability to limitations of resources. The results will be used to develop and validate a culturally appropriate diabetes health literacy tool.

Key words: diabetes mellitus, focused group discussion, health literacy

BACKGROUND

Diabetes mellitus is recognized as a challenge for many healthcare systems. It is a chronic disabling disorder which poses a burden not only for individuals with the disease but also to society. The deterioration of glucose control increases the incidence of diabetes-related macro- and micro-vascular complications such as blindness, stroke, cardiovascular events, chronic kidney disease and lower extremity amputations.1

Despite the advancement of scientific knowledge on the pathology and development of novel treatments in diabetes, the burden of the disease continues to escalate. A multidisciplinary approach is key to tackle the difficulties of chronic disease management to encourage effective self-care including diet and medication adherence, promoting physical activity and participation in preventive care strategies.2,3 Various factors have been identified as social determinants of health. Although there are many factors affecting the process of care and achieving improved health outcomes and quality of life in diabetes, provider linguistic and cultural competency has been seen as a knowledge gap needing to be addressed in culturally-specific diabetes management. Language barriers can impact the perception patients have of healthcare facilities. Simple advice ranging from what is the disease, the extent of the disease/complications, lifestyle modifications and medication adherence might be a problem if mistranslated.

Addressing language barriers caused by medical terminology may potentially curb health inequities.4 Patient understanding is crucial to maximize participation in their own management to achieve adequate care and improve disease status; on the other side of the equation are the quality and capacities of the healthcare systems, organizations and professionals rendering care.5,6 Health...
professionals must establish and understand a patient's health literacy before delivering interventions or education.\textsuperscript{7}

The Institute of Medicine describes an attribute of a health literate organization as having healthcare providers who use health literacy strategies during interpersonal communications with patients.\textsuperscript{8} One significant challenge in the use of medical terminologies in health consults is the mismatch in functional and communicative aspect of the health literacy domain between the patient and the healthcare provider. A recent systematic review of health literacy sensitive diabetes interventions showed significant improvements in diabetes control with use of plain language, limiting teaching to 3 to 5 key points, and incorporating teach-back to ensure comprehension. However, healthcare providers have not consistently adopted these techniques.\textsuperscript{9-11}

Currently, there is a gamut of information on diabetes terms to be found on the internet, in textbooks, handouts, etc. No material has yet been compiled based on the diabetes-related terms used in clinical practice in the third world and how these are defined in a culturally-appropriate perspective of both the healthcare provider and the patient.\textsuperscript{12}

Effective communication has been correlated with improved outcomes. Patient comprehension during a medical consult has an effect on disease understanding; improving access and utilization of healthcare; interacting with healthcare providers; caring for one's own health; participating in health debates and decision making and greater satisfaction.\textsuperscript{13} Doctors frequently introduce medical terms during consults that may not necessarily be highfalutin, but due to the lack of simpler terms are still used, impairing effective communication.\textsuperscript{14-16} As such, it is important to identify commonly used diabetes medical terms during consult.

The aim of the study was to generate the most common themes discussed during an outpatient diabetes consult in a tertiary hospital, determine the level of knowledge and understanding of patients with diabetes of the most common diabetes medical terminologies utilized during consults, and to develop a conceptual framework determining the factors affecting diabetes care relating to the themes generated. This shall pave the way to better and effective communication of the previously known 'medical jargon' into scientifically meaningful terms because of better comprehension. This will lead to patient empowerment and decision-making with respect to self-care, medication adherence and complications prevention. In addition, the results of this study will also contribute to Filipino lexicography. Terminologies and definitions generated may be of use in constructing materials for more effective translation and expression of medical terms related to diabetes care.

**METHODOLOGY**

Our study was carried out in accordance with the principles outlined in the 2015 Declaration of Helsinki. It was approved by the Institutional Review Board and Research Ethics Board of the University of the Philippines Manila (UPM-REB Code: 2018-610, RGAO Registration No.: 2018-1166). Informed consent was obtained from the patients prior to the audio recordings and focused group discussions.

**Study Design and Setting**

This was a qualitative study consisting of transcription of patient consult recordings and focus group discussions conducted within the premises of the outpatient department of a tertiary hospital in the Philippines.

**Study Procedures and Outcomes**

**Phase I. Diabetes Consultation Recordings and Transcription**

The sample size for the audio recordings was 96 to represent the population of the physicians who conduct consultations in patients with diabetes. The recordings were stratified according to patient age (18 – 60 years vs. more than 60 years) and educational status (high school graduate or less vs. college or more). The patients were recruited in this phase of the study using purposive sampling. Recordings were undertaken once the patient has signified their informed consent during consults at the family medicine, internal medicine and endocrinology clinics, respectively (Table 1).

To generate a list of medical terms used during a diabetes consultation encounter, transcriptions of consultation audio recordings (with patient consent) and content analysis were performed by an independent observer. The diabetes-related medical terms were quantitatively tallied on how many times they were mentioned during consults, taking into consideration synonymous terms and grouping together of similar concepts before the final list of terms was generated.

**Phase II. Focus Group Discussion (FGD)**

To validate the list generated from Phase I, FGDs involving a group of diabetic healthcare experts and another group of adult diabetic patients selected via purposive sampling were done with the principal investigator as facilitator (Table 2).

**Table 1. Summary of the number of audio recordings from the outpatient clinics stratified according to age and educational status**

| Clinic         | Age range (years) | Educational status                  | Number of recordings |
|----------------|-------------------|-------------------------------------|----------------------|
| Family Medicine| 18 – 60           | High school graduate or less         | 18                   |
|                | More than 60      | College or more                      | 18                   |
| Internal Medicine| 18 – 60         | High school graduate or less         | 18                   |
|                | More than 60      | College or more                      | 18                   |
| Endocrinology  | 18 – 60           | High school graduate or less         | 12                   |
|                | More than 60      | College or more                      | 12                   |
The panel experts were as follows: 3 endocrinologists, 2 internal medicine physicians and 2 family medicine physicians. We did not include paramedical staff and social scientists in our study. The groups of adult patients with diabetes comprised of eight participants each, large enough to keep the conversation going, at the same time small enough to prevent people from being left out of the discussion; each group was categorized according to age and educational attainment (Table 2).

The activity was conducted in a quiet room where the participants, including the facilitator, were seated face-to-face in a circle. It commenced with the facilitator first explaining the purpose and outline of the FGD. The following discussion points were tackled: 1) Identify the factors affecting health outcome in diabetes care; 2) Identify the role of diabetes consultation advice on diabetes control; 3) Identify medical terms commonly used during the consult; 4) Identify which medical terms are easily to poorly understood; and 5) Define in their own words each diabetes medical term.

Each participant was given a chance to speak during the entire duration of the activity. The facilitator noted both verbal responses and non-verbal cues including gestures and body language. The FGD concluded with the facilitator summarizing the key points of the discussion. The team reviewed the responses in order to validate the transcribed responses from the consultation recordings and the FGD responses.

Consensus was derived by the Delphi method, the standard technique for achieving convergence of opinion from a panel of experts. The following were the points for consensus: 1) Factors affecting health outcome in diabetes care; 2) Role of diabetes consultation advice on diabetes control; 3) Medical terms commonly used during the consult; 4) Medical terms that are difficult to understand; and 5) Own definition of the medical term diabetes. The Delphi method relies on a system of iteration and feedback to achieve a summation of comments, making each panel member aware of the range of opinions and the reasons underlying them. The method is also notable for its ability to provide anonymity, reducing the effects of group pressure for conformity, the presence of a controlled feedback process, and the suitability of a variety of statistical analysis techniques to interpret the data.18

The process took place over several rounds: In the first round, all panel experts were emailed a transcribed copy of the consultation recordings and FGD outputs. They were asked to individually place their opinions, as well as the underlying reasons for these. These responses were collected and summarized by a facilitator, who kept the identity of each panel expert anonymous. The generated diabetes medical terms commonly used during consultations were sent back to the individual panel experts for review, in light of the other panel members’ replies.

This second round reveals areas of agreement and disagreement, and consensus begins forming.19 Finally, during a third round (the minimum number recommended), the revised output was again sent back to the individual panel members, and the version approved by the majority (50% + 1, or at least four experts) was accepted.20 A conceptual framework was generated using the terms from the audio recordings, focus group discussion and consensus from the panel experts in order to summarize the important key factors that affect diabetes care during outpatient consultations.

RESULTS

Phase I. Diabetes Consultation Recordings and Transcription

A total of 96 diabetes consults recordings were obtained from clinics in the Philippine General Hospital Outpatient department handling patients with diabetes: family medicine (FM) (n=36), internal medicine (IM) (n=36), and endocrinology (n=24). The patient groupings are summarized in Table 1. Diabetes consultation duration varied from 15 to 45 minutes in the FM Clinic, 2 to 49 minutes in the IM Clinic, and 3 to 35 minutes in the Endocrinology clinic.

The top ten most commonly used diabetes medical terminologies during a patient-doctor encounter in an outpatient clinic include: (1) Fasting Blood Sugar (FBS); (2) Hypoglycemia and its symptoms; (3) Hba1c; (4) Creatinine in relation to diabetic nephropathy; (5) Diet and Exercise; (6) BP Control; (7) DM Complications; (8) Symptoms of Diabetes Mellitus; (9) Treatment goals; and (10) Medication side effects. The most commonly repeated concept in each consult was diabetes complications. When re-examined, most complications were dominantly in loss-framed messages versus gain-framed messages in which the latter highlights the benefits of a specific behavior or a risk factor. These terms were validated by a method of triangulation through facilitated focus group discussions.

Phase II. Focus Group Discussion (FGD)

Focus group discussions were held to validate the top most commonly used diabetes-related terms elicited from the audio recordings of consults. Elicited in the FGDs were questions on factors affecting outcome on diabetes care. Factors identified were knowledge of the disease; understanding of the disease entity; reiteration of the medical term diabetes complications. When re-examined, most complications were dominantly in loss-framed messages versus gain-framed messages in which the latter highlights the benefits of a specific behavior or a risk factor. These terms were validated by a method of triangulation through facilitated focus group discussions.

Table 2. Focus group discussion groupings stratified according to age and educational status

| Group | Age range (years) | Educational status | Number of participants |
|-------|------------------|--------------------|-----------------------|
| 1     | 18 – 60          | High school graduate or less | 8                     |
| 2     | More than 60     | High school graduate or less | 8                     |
| 3     | 18 – 60          | College or more      | 8                     |
| 4     | More than 60     | College or more      | 8                     |
relationship guided by full trust of the doctor by the patient. It also showed a more paternalistic doctor-driven decision making versus a mutual patient-doctor relationship on the treatment plan especially on the choice of medications, the flexibility of the physician to change in treatment plans in cases of treatment failure and limitations of funds.

Phase III. Generation of Conceptual Framework

A conceptual framework (Figure 1) was then generated using the terms from the audio recordings, focus group discussion and consensus from the panel experts in order to summarize the important key factors that affect diabetes care during outpatient consults.

DISCUSSION

The Filipino language consists of a vast array of synonyms on how to express ideas. Language has the potential to benefit or hinder the attainment of proper health management. It was deemed worth further exploring each of the most common terms and themes generated during an outpatient diabetes consult to explain disease diagnosis, treatment, for patient counselling, prevention, and promote adherence to therapy.

Fasting blood sugar is a parameter used to diagnose diabetes mellitus. It is also used to monitor patients with diabetes for the appropriateness of sugar control. It is usually taken after a person has not eaten for eight to fourteen hours, usually overnight. Being the most commonly available and affordable screening and monitoring test for diabetes mellitus, it is not surprising that it is the most used diabetes-related term in a consult.

Hypoglycemia being a potentially dangerous state of low blood sugar usually less than 70 mg/dL, or too little sugar in the blood presents with signs including hunger, nervousness, shakiness, perspiration, dizziness or light-headedness, sleepiness, and confusion, is one of the symptoms most elicited by the physicians. Hypoglycemia is a diabetic emergency and a complication of treatment, and if persistent can lead to serious morbidities including but not limited to heart attacks, and even death. Patient-initiated Filipino terms pertaining to hypoglycemia includes symptoms such as nanginginig, nangangatog, labis na pagkagutom, nahihilo, lupaypay, inaantok, pagkawala ng malay. Noticeably, hypoglycemia treatment was not regularly advised in the Family Medicine and Internal Medicine clinics compared to the IM-Endocrine clinic. From the recorded consultation, around 70% from the IM-Endocrine recordings were insulin requiring, versus 40% in Family Medicine and Internal Medicine clinics. Simple culturally available measures to address hypoglycemia include consuming three pieces of hard candies, or a half-cup of juice or regular soft drinks; and to avoid skipping meals.

Hemoglobin A1c (HbA1c) is a test that measures a person’s average blood sugar level over the past 2 to 3 months. Hemoglobin is the part of the red blood cell that carries oxygen to the cells and sometimes joins with the glucose in the bloodstream most especially in the setting of chronic hyperglycemia. Generally, this blood test is well understood by patients with diabetes with higher level of education i.e., some college or more, included in the study. This is their measure for control of blood sugars. It was elicited both from the individual audio recordings and the FGDs that there was a good understanding as to the purpose of this test.

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Creatinine is another commonly inquired term during a diabetes consult. It is a surrogate marker for renal
dysfunction, as it is a waste product from protein in the diet and from the muscles of the body, and removed from the body by the kidneys. This term is simply known as creatine to the patients with diabetes. The association that as the creatinine increases, kidney function decreases is widely understood by our patients. Diabetes nephropathy is equated to kidney damage, kidney failure, and dialysis.

Lifestyle modifications through revision of diet and institution of exercise have also been reiterated during consultations. Queries have focused primarily on the proper nutrition composition and the types of exercises best suited for patients with diabetes. The usual advice given by physicians include adapting the piringg pinoy, a low-fat, low-calorie diet and moderate exercise usually brisk walking for at least 30 minutes, 5 days a week. Diabetes meal planning options for meal substitutions for different food groups are given to patients, however, the details of such interventions are often left to the nutritionist for further discussion. Referrals to the dietary service are done after each consult most commonly observed from the IM-Endocrine clinic.

Blood pressure, simply known as BP or preesyon to patients control is emphasized in diabetes management. It has been shown that a good BP control of less than 140/90 is targeted for patients with diabetes for slowing down kidney damage and minimizing albuminuria. The initiation of ACE-inhibitors or ARBs are given as options to patient to achieve this. However, this is not prioritized by patients with diabetes included in the study because of the lack of knowledge on the effects of blood pressure control on kidney function and deterioration.

Diabetes mellitus complications included in consults aside from nephropathy, are neuropathy including bilateral loss of sensation in distal extremities specifically the hands and feet described as pamanahid, panggangalay ng mga kamay at paa, matagal na paghilom ng sugat, pagkapatol ng paa, erectile dysfunction, constipation, delayed digestion manifesting as nausea, vomiting or bloating pagkabils mabuso, autonomic neuropathy presenting as orthostatic dizziness pagkahihi lalo na kapag nagbago ng posisyon; retinopathy presenting as loss of vision pantadlo ng mata, pagkabulag; and macrovascular complications including heart attack, heart failure, stroke, and amputations.

Symptoms of Diabetes Mellitus elicited are polyuria, nocturia, increased thirst, unintentional weight loss, and paresthesia. These terms are translated as madalas na paghihi, labis na pagka-ihi, pananayat o pagbabawas ng timbang, and pamanahid ng mga kamay at paa.

Treatment goals for patients with diabetes are inquired by patients and discussed by physicians. Different targets of HbA1c, fasting blood sugar, BP, lipid level, and weight loss are set depending on age, and the presence of co-morbidities. Generally, for younger adults with diabetes without CV risk an A1c of 6.5-7.0% is targeted, and if older with co-morbidities, a more relaxed target is recommended. This is individualized and explained to each patient.

Medication side-effects are often a cause of worry for patients with diabetes. More so, the bulk of the information is published on social media, websites, newspapers, and advice from neighbors about unvalidated effects of some medications, i.e., metformin causing cancer or renal failure, diabetes medications causing weakness, use of insulin as a ‘death sentence’ in a patient’s diabetes state. Physicians should additionally educate patients regarding medication side-effects and efficacy of diabetes control during consults. Furthermore, the use of non-FDA approved food supplements with no therapeutic value were also brought up. Common lay terms describing side-effects include pamanakit ng tuyan, pagsususuka, labis na pagbaba ng lebel ng asukal sa dugo, pumanaba.

The diabetes consultation has a key role in filling in the knowledge gap about the disease, and its consequences on the health outcomes of each patient. However, the patients are admittedly easily lured by mass media- advertisements/ TV commercials, YouTube videos, advice from colleagues, friends and neighbors, and social media releases by the non-experts.

Although it occurred in the top ten most commonly used terms in diabetes consults, the most poorly understood concept is that of the medication efficacy and side-effects. This serves as a limitation to achieving adherence to medication, good glycemic control, and better health outcomes.

The FGD group with a lower educational background is more or less familiar with the diabetes-related consultation terms, however, they are more reliant on its implications, and treatment adjustments to their physicians, rather than understanding the totality and course of their diabetes management. How this will affect treatment outcomes is yet to be determined in future studies.

The themes we have elicited in our study will allow us to develop a culturally-appropriate diabetes health literacy tool. The use of this tool will allow us, diabetes healthcare providers, facilitate better and more effective communication resulting in better patient comprehension with regards to self-care, medication adherence and complication prevention, and further to develop a diabetes education approach that is standardized and fit in our healthcare system. As some studies have shown, some patients do not think of a diabetes consult, including diabetes education a necessity because they do not consider themselves ill. However, we have to help patients realize that knowing the course of the disease and diabetes management can influence their health outcomes.

CONCLUSION

In summary, the themes discussed in outpatient diabetes consults reflects the dimensions of diabetes care, being influenced mainly by socio-cultural factors, patient’s having a good grasp of the disease process, a trusting patient-doctor relationship and adaptability to limited resources. The study results will be used to develop and validate a culturally appropriate diabetes health literacy tool.

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All authors certified fulfillment of ICMJE authorship criteria.
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