NEW DIABETOLOGICAL EDUCATION METHOD
AT THE HEMODIALYSIS STATION

Katalin Varga PhD, Katalin Tilgessi, Emília Márta MSc, Attila Benke MD.
B Braun Nemzetközi Kft, and Budapesti Egyetem, Országos Klinika

INTRODUCTION
According to preliminary estimates of the International Diabetes Federation - atlas issued in May 2015 - 592 million people worldwide will be affected by diabetes until 2035. This represents a 53 % increase compared to the current situation. Nowadays about 30-50% of hemodialysis patients live with diabetes, and a growing number of diabetic patients are entering the hemodialysis program, representing a new type of tasks for dialysis nurses and patients. It creates the possibility of refreshing their knowledge on the diabetes management. We aimed to assess the diabetological knowledge of our patients, and develop a specific educational system to improve their attitude about self-treatment.

QUOTE
"Diabetes is a ‘silent epidemic’, which are an invaluable amount of human, social and economic consequences.”
L. Lazouras UN 2006.

MATERIALS
Demography of patients
In 2015 about 1 in 3 patients treated with hemodialysis had diabetes, 40 of them were enrolled in the diabetes care dialysis center program on the basis of voluntary applications. When we started the program, we checked every patients’ instruments: blood glucose meter, pens, blood sugar diary.

METHODS
1. The education score system
We developed a score system (patients’ knowledge was scored 0-1-2) to evaluate their knowledge and to guide the following education.

2. Nurses’ diabetological course
Dialysis nurses’ training: Organised 1 hour training six times for 5 dialysis nurses with a professional diabetes nurse and a diabetologist.

METHODS 3
Categories of educability

RESULTS 1
Diabetes education score initial result

RESULTS 2
improvement in knowledge can be followed
all the patients were involved in learning situation: technical and theoretical levels
self-management skills improved (hypoglycemia treatment)
helping attitude of family members was also reinforced
therapeutic modification of regimes can be made based on blood glucose diary result
Patient satisfaction improved, it is convenient to give diabetological care during hemodialysis
Patients’ sense of security increased, as the dialysis center staff regularly checked their carbohydrate metabolism.

CONCLUSION
The described simple method make it possible to assess the level of knowledge of hemodialysis patients with diabetes quickly and - during follow-up – in a comparable way. A structured patient education can be used as a guideline, the gaps could be repaired as soon as possible. The periodic repetition can help to avoid dangerous changes of carbohydrate metabolism.

EVERYDAY PRACTICE
- Patients’ knowledge can be assessed on the basis of the score-system. It makes it possible to quantify their knowledge, so it is possible to keep track of the development of the patient.
- Lack of knowledge (diet, the use of devices, etc.) can be easily recognised, surprising score results were observed regardless of their school qualifications.
- During dialysis sessions 3 times a week, patients at almost the same diabetes knowledge level were grouped into the same room, and 2 nurses in a shift could teach patients during the four-hour treatment.
- The development of knowledge was constantly seen, repetition was also possible, like a diabetes club.
- On a weekly basis, we checked their blood sugar recordings, tools, and they could meet with a diabetologist.

REFERENCES