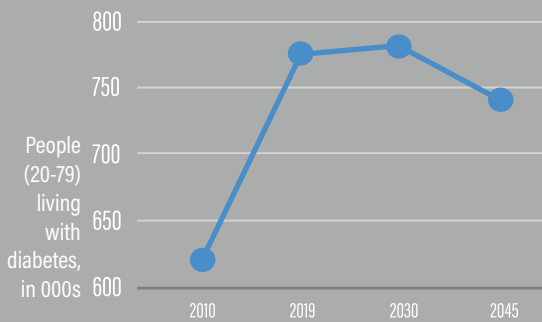




# AN OVERVIEW OF DIABETES CARE

## DIABETES PREVALENCE



Of which, undiagnosed  
43% (332,700 people)

Children & adolescents with T1D (0-19y)  
2,600



Total expenditure  
€709 million



Diabetes-related deaths  
9,159.8

Diabetes prevalence 12%



14.2 %



9.5 %

Source: IDF Diabetes Atlas 9th edition 2019

Serbia has made great strides in setting up the prevention and management frameworks necessary to reduce the incidence of diabetes and diabetes-related complications. A new comprehensive national diabetes plan is under development and the country has a full working diabetes registry at primary level for all people living with diabetes (PwD).

There are national guidelines for the prevention and management of diabetes, including systematic screening for diabetes-related complications. Self-management education is also provided to PwD and carers.

Most medicines and technologies are fully available at little or no cost to those who require them, although some of the newer medicines are not yet reimbursed, or not in full. Some newer technologies are not available, as they have not yet been offered for registration/reimbursement by medical devices companies.

COVID-19 has spurred the development of e-health (especially prescriptions and remote consultations) and a pilot project is under way for remote monitoring but advances in both have, to date, remained limited, due to the lack of formal legislation in this respect (e.g., reimbursement of remote consultations).

There is no educational track for specialised diabetes nurses, although they tend to specialise during their practise and healthcare staff shortage is an issue. Psychological support for PwD is also a weak point, due to the lack of dedicated healthcare professionals, with education in this field.

## DIABETES PREVENTION & MANAGEMENT

● YES ● NO

### HEALTHY LIVING POLICIES



Obesity/  
overweight



Healthy  
food & diet



Physical  
activity



Smoking



Regulations for  
healthy diets

### PREVENTION OF COMPLICATIONS



Eye  
screening



CVD



Kidney  
disease



Diabetes  
foot



Gestational  
diabetes

### EDUCATION



At or around the  
time of diagnosis



Throughout  
the life course



Integrated  
peer-to-peer support

Is there a programme to follow mothers with gestational diabetes after the birth of the baby ?

NO

NATIONAL  
PLAN ?

Stand alone  
Under development

PREVENTION &  
MANAGEMENT  
GUIDELINES

National guidelines

MONITORING  
FRAMEWORK ?

Yes

GOVERNMENT  
ENGAGEMENT  
WITH PwD ?

Yes

# ACCESS TO CARE, TECHNOLOGIES, MEDICINES AND SUPPLIES



Is INSULIN available at the point of delivery ?

- Always
- Most of the time
- Sometimes
- Not often
- Never



Is available INSULIN free of charge ?

- For all PwD
- For all T1D only
- For children only
- Other



Children

- Short-acting regular insulin
- Rapid-acting (analogues)
- Ultra-rapid-acting analogues
- Intermediate acting
- Long-acting



Adults

- Short-acting regular insulin
- Rapid-acting (analogues)
- Ultra-rapid-acting analogues
- Intermediate acting
- Long-acting



- Short-acting regular insulin
- Rapid-acting (analogues)
- Ultra-rapid-acting analogues
- Intermediate acting
- Long-acting

## APPS



Do apps get recommended by the health system/HCPs to manage/prevent diabetes ?	NO
When they are recommended, are these apps fully reimbursed?	NO

## SUPPLIES/TECHNOLOGIES

ARE THE PRODUCTS AVAILABLE AT THE POINT OF DELIVERY ?

- Always
- Most of the time
- Sometimes
- Not often
- Never

Free of charge for all

Not available

Syringes & needles

Connected/smart pens

Insulin pens

Automated delivery syst.

Blood glucose meters

Flash glucose monitors

Insulin pumps

CGMs\*

Test strips

\* Continuous glucose monitors

### COMMENTS :

For people living with T1D, only a specific number of test strips (between 50-150) is reimbursed per month, dependent on situation and/or diabetes regimen (50 for people on insulin; 100 for people on four-daily injections; 150 for children and during pregnancy). Test strips are not refunded for people living with T2D.

## PSYCHOLOGICAL SUPPORT

PSYCHOLOGICAL SUPPORT PROVIDED AS PART OF DIABETES CARE ?

Available but hard to access  
Free / Fully reimbursed



AVAILABLE AT THE POINT OF DELIVERY? ● YES ● MOST OF THE TIME ● SOMETIMES ● NOT OFTEN ● NO

### GLUCAGON - METFORMIN/SULFONYLUREAS

<span style="color: green;">●</span> Glucagon	<span style="color: red;">●</span> Nasal Glucagon	FREE OF CHARGE ? <input type="radio"/> For all PwD <input type="checkbox"/> For all T1D only <input type="checkbox"/> For children only <input type="checkbox"/> Other		FREE OF CHARGE ? <input type="radio"/> For adults only <input type="checkbox"/> For children only <input type="checkbox"/> Other	<span style="color: green;">●</span> Metformin	<span style="color: green;">●</span> Sulfonylureas
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### OTHER DIABETES MEDICINES

<span style="color: red;">●</span> DPP4 inhibitor <i>All are registered but awaiting reimbursement</i>	<span style="color: red;">●</span> GLP1 analogue <i>All are registered but awaiting reimbursement</i>	<span style="color: red;">●</span> SGLT2 inhibitor <i>All are registered but awaiting reimbursement</i>	<span style="color: green;">●</span> Meglitinide Free of charge	<span style="color: red;">●</span> Alpha glucosidase inhibitor <i>Not reimbursed</i> <i>Not usually prescribed</i>
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### CARDIOVASCULAR MEDICINES

<span style="color: green;">●</span> Calcium channel blockers Co-payment	<span style="color: green;">●</span> Beta blockers Co-payment	<span style="color: green;">●</span> ACE inhibitors Free of charge	<span style="color: green;">●</span> Thiazide diuretics Free of charge	<span style="color: green;">●</span> Statins Free of charge	<span style="color: green;">●</span> Ezetimibe Co-payment	<span style="color: red;">●</span> PCSK9 inhs Not reimbursed
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## HEALTH SYSTEMS



● YES ● NO

- Are diabetes specialist nurses (DSNs) available ?
- Do people living with diabetes have access to specialist educators?

Do nurses play a role in the diabetes management of ?

- Adults & children with T1D
- People with T2D
- Women with GDM
- Do nurses play a role in diabetes prevention ?
- Are nurses allowed to prescribe medicines?

### HOW WIDESPREAD IS THE USE OF E-HEALTH

AVAILABLE FOR ALL PEOPLE LIVING WITH DIABETES ? ● YES ● NO  
 AVAILABLE AT THE SAME COST AS TRADITIONAL OPTIONS ? ▲ YES ■ NO

Online appointment management <span style="color: green;">▲</span>	Video consultations <span style="color: green;">■</span>
Telephone consultations <span style="color: green;">■</span>	SMS & EMAIL consultations <span style="color: green;">■</span>
Electronic prescriptions <span style="color: green;">▲</span>	Telehealthcare & Remote monitoring <span style="color: red;">■</span> Pilot project

### ELECTRONIC HEALTH RECORDS ?

● YES ● NO

### DIABETES WORKING REGISTER ?

● YES ● NO

