Diabetes Report 2023 Lübbecke, 18. September 2023

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MANAGEMENT SUMMARY



Management Summary

The GEHWOL Diabetes Report 2023 has expanded its data pool and includes not only the assessments of 120 doctors with almost 46,000 patients, but also of 500 diabetes patients surveyed directly online. Doctors and patients received comparable questions that were tailored to them on health awareness, prevention and foot care measures.

The results show how crucial structural improvements in **prevention** can be: If patients receive care in practices that are connected to a foot care network, they are less likely to be at risk of diabetic foot syndrome. The same practices also carry out diagnostic measures such as palpation of the foot pulses and follow-up diagnostics more frequently. This has a particularly positive impact on the vast majority of patients who regularly take advantage of the check-ups.

Among patients with neuropathy, 69% with peripheral neuropathy see a doctor at least once every 3-6 months.

When asked for recommendations for further measures, doctors advocate consistent pressure relief, diabetic training and good podological care. Daily foot checks and applying foot cream are just two of the many preventive measures that you can take on your own.



Doctors impart knowledge about preventive measures and foot care to their patients, but in many cases only to highrisk patients. This also applies to specific measures such as podological and orthopaedic shoe technology or biomechanical treatment. Both are recommended to patients, but often only if they have a prescription and not in general.

When it comes to **health awareness and disease management**, the different assessments of doctors and patients stand out in particular:

While doctors estimate that almost 40% of patients do not take care of their feet, 85% of patients say that regular foot care is important to them. This is a discrepancy, especially since doctors report that the vast majority of patients do not take the necessary preventive measures. On the other hand, foot care awareness is significantly influenced by whether people with diabetes know or fear the risks of foot syndrome.

This shows that people who are concerned about possible foot problems or affected by skin lesions are more conscientious about **foot care**. The more resources are available, the easier this becomes. One obstacle is the cost of foot care. For example, half of the lowest-income group of people never go for medical foot care - in contrast to those with higher incomes, many of whom also regularly use podological services as self-paying patients. This is one more reason to create economic incentives for suppliers and affected persons: Many doctors share the view that better prevention also requires action to improve the socioeconomic situation of their patients.



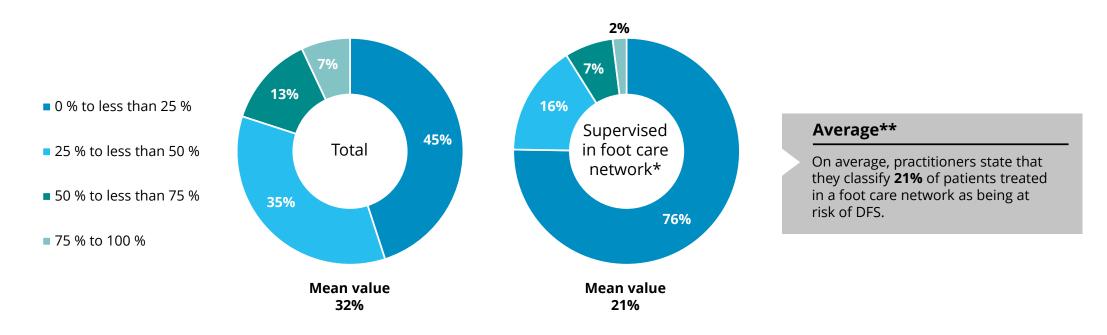


DISEASE MANAGEMENT AND PREVENTION RECOMMENDATIONS Treating persons



Significantly lower risk of diabetic foot syndrome when cared for in a foot care network

Percentage of patients that the treating physicians would classify as at risk of developing diabetic foot syndrome (DFS)

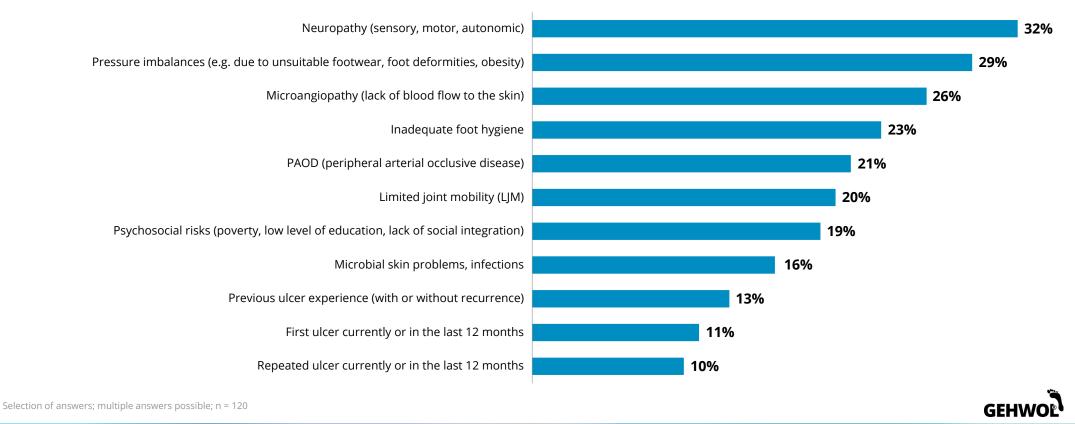


n = 120; * Patients receive interdisciplinary care in a foot care network with other specialists such as diabetologists, internists, orthopaedists, diabetes consultants, podologists, orthopaedic shoemakers, pharmacies, inpatient foot treatment facilities, etc.; ** Basis: n = 46,099 patients



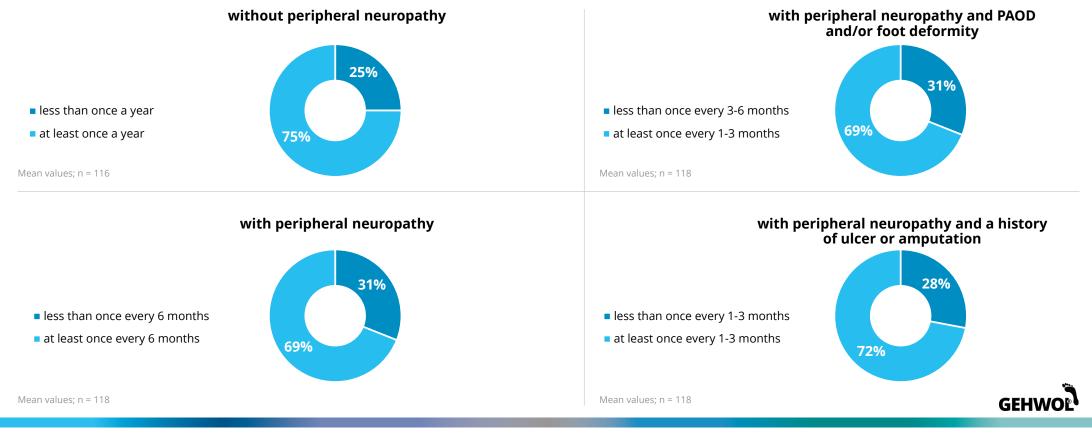
Neuropathies and incorrect strain are the most common risk factors

Proportion of patients to whom these risk factors apply

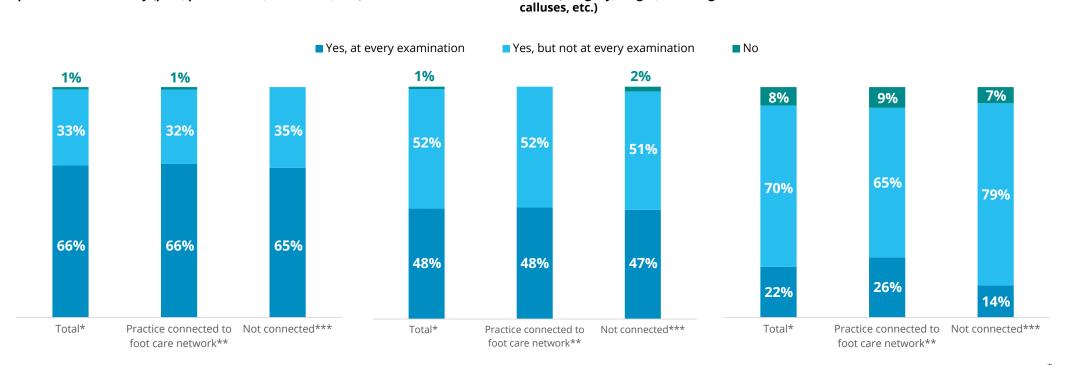


Up to a third of affected persons do not follow the recommendations for regular check-ups

Proportion of patients who take advantage of recommended check-ups at this frequency



These examinations are carried out by practitioners



Examination of skin status (integrity, turgor, sweating,

Do you carry out the following examinations on your patients?

Specific medical history (pain, paraesthesia, numbness, etc.)

* n = 120; ** n = 77; *** n = 43

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Examination of muscles

These examinations are carried out by practitioners

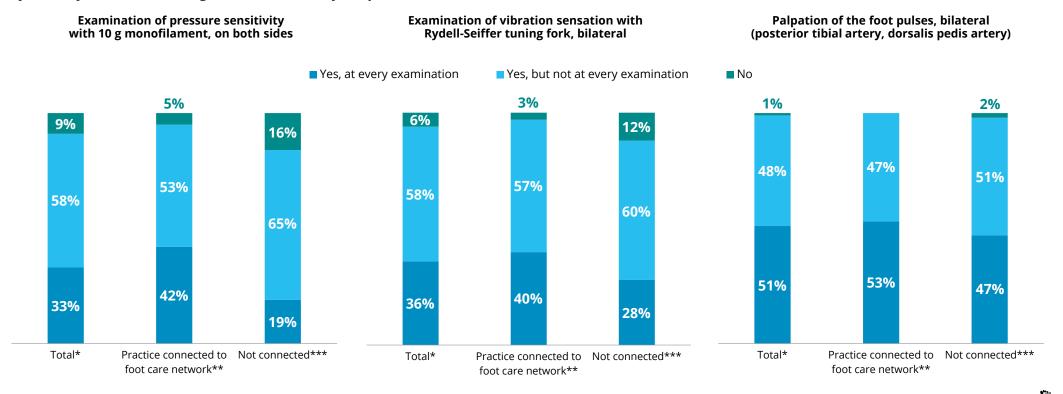
Examination for existing foot deformities (malpositions) and Examination of the skin temperature Checking the shoes (material, condition of soles, inner seams, condition of insoles if necessary) mobility Yes, at every examination Yes, but not at every examination No 🛛 3% 3% 5% 5% 12% 13% 21% 26% 37% 62% 66% 62% 64% 72% 58% 56% 52% 44% 35% 31% 32% 31% 28% 26% 23% 16% 19% Total* Practice connected to Not connected*** Total* Practice connected to Not connected*** Not connected*** Total* Practice connected to foot care network** foot care network** foot care network**

Do you carry out the following examinations on your patients?

* n = 120; ** n = 77; *** n = 43

These examinations are carried out by practitioners

Do you carry out the following examinations on your patients?



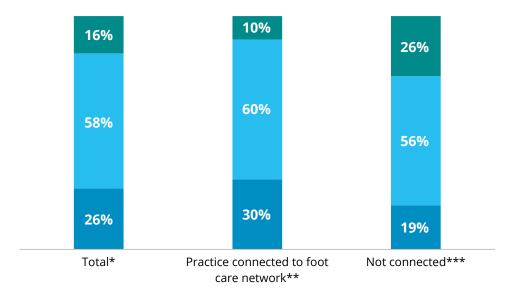
Practices with a network connection also carry out more frequent connected diagnostics for palpable pulses

Practices without a network connection refer patients with non-palpable foot pulses to specialists more frequently

Do you perform follow-up diagnostics, such as a further pulse status, determination of ankle-brachial index or toe-brachial index?

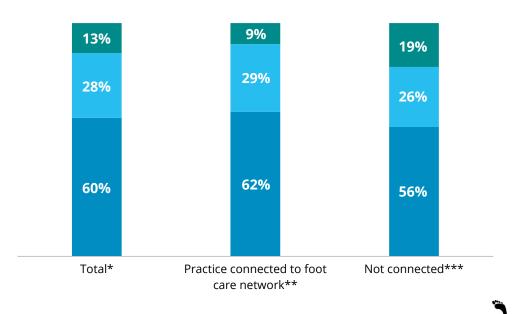
For **palpable** foot pulses

- No, no further diagnostics if the foot pulses show no positive pathological findings
- Yes, partly with palpable foot pulses
- Yes, fundamentally, even if the foot pulses are palpable



For **non-palpable** foot pulses No, I immediately refer to a specialist

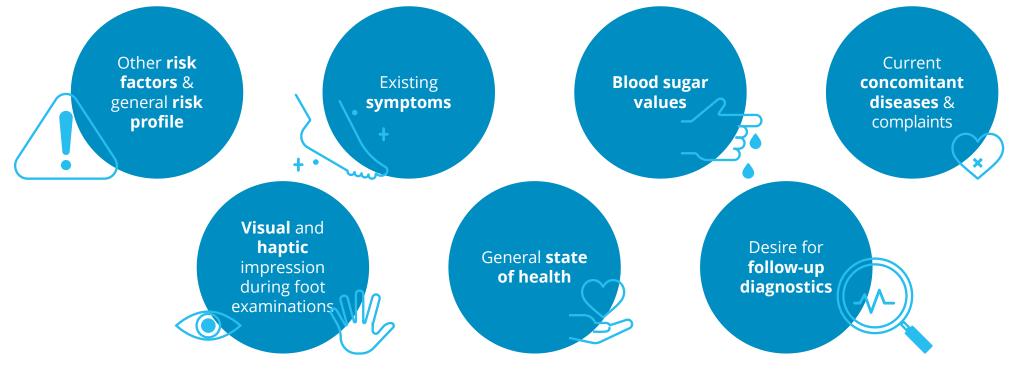
Yes, partly if the foot pulses are not palpable



* n = 120; ** n = 77; *** n = 43

Individual risks and complaints determine whether follow-up diagnostics are carried out

Considerations according to which the practitioners decide on follow-up diagnostics



Open-ended responses; summarized responses for "for palpable foot pulses" (70 responses in total) and "for non-palpable foot pulses" (33 responses in total)



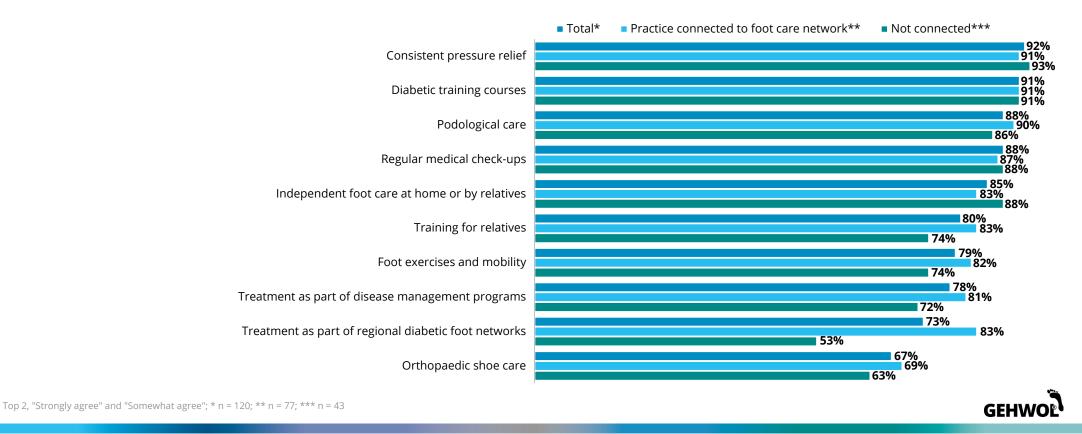


PREVENTION OPPORTUNITIES AND RECOMMENDATIONS Treating persons



Pressure relief and training are the most important measures from the point of view of those treating patients

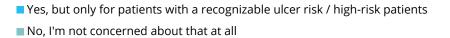
Measures to prevent foot lesions in diabetes / diabetic foot syndrome that practitioners find important

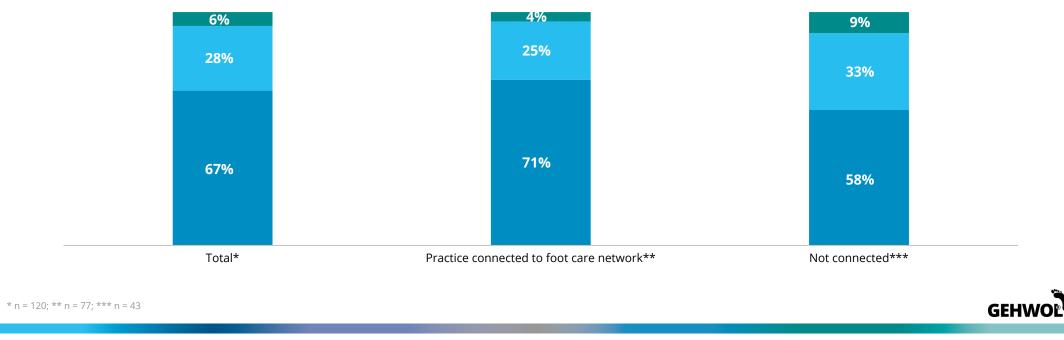


Almost everyone provides information, but sometimes only to the high-risk patients

Do you systematically educate your patients with diabetes and ulcer risk about appropriate, self-performed foot inspections and foot care?

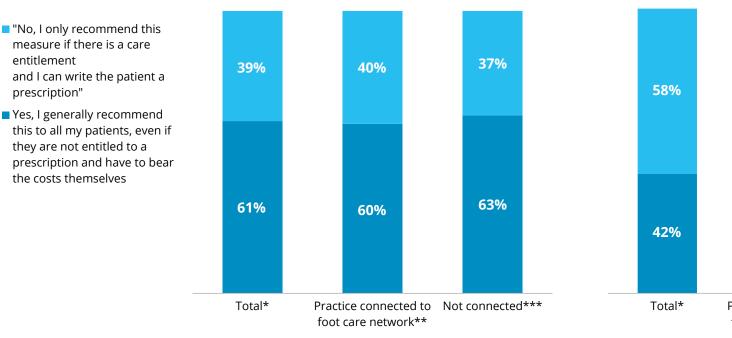
- Yes, generally for all diabetics (even without a recognizable ulcer risk)
- No, but I recommend training by a diabetes consultant or podologist





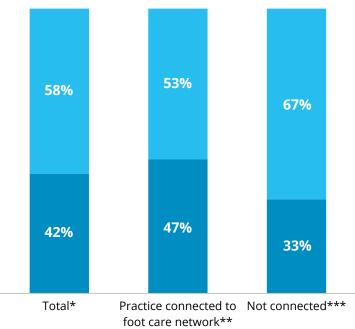
Treatment by a podologist is recommended, but often only if entitled to a prescription

Do you recommend additional therapeutic measures to your patients with diabetes?



Complex treatment by a podologist

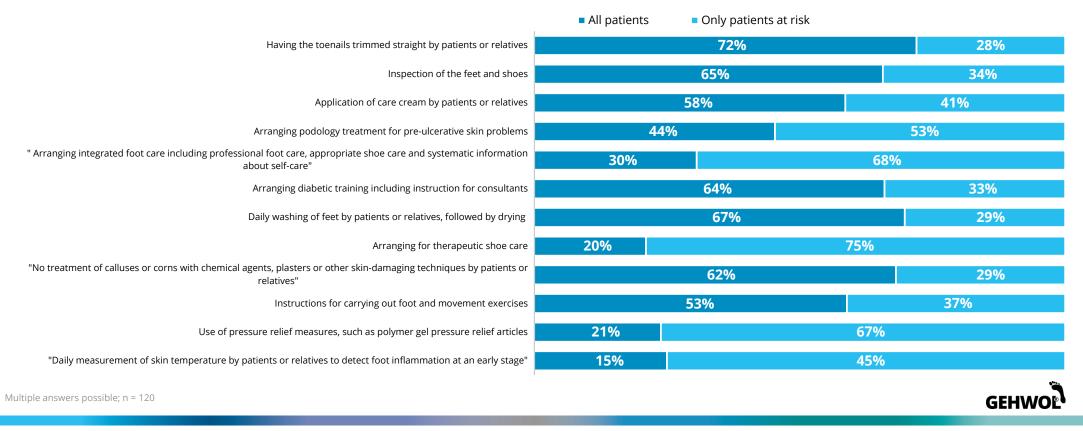
Biomechanical examination by the orthopaedic shoemaker



GEHWO

Doctors focus on feet as part of prevention

What specific preventive measures do you recommend or initiate for your patients with diabetes?



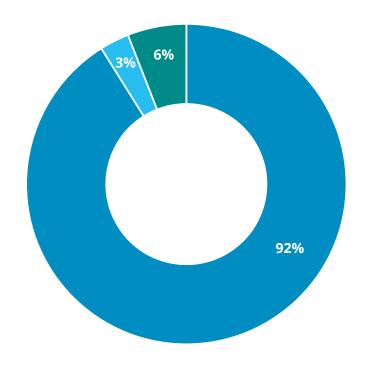


DISEASE AWARENESS AND IMPLEMENTATION OF PREVENTION From the perspective of the practitioners



Affected persons can do a lot for themselves to avoid foot complications

"Risk awareness and the behaviour of affected persons have the greatest influence on the results when it comes to preventing foot complications in diabetes."

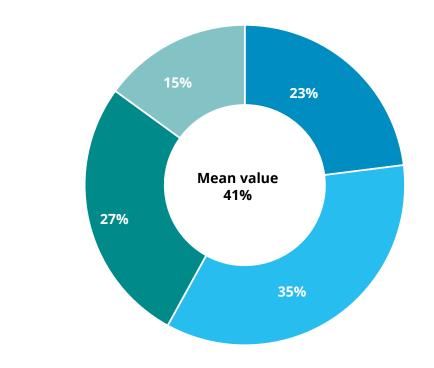


- I agree with this statement
- I do not agree with this statement
- Don't know



Only one in six people are aware of the importance of looking after their own feet

How highly do you estimate the proportion of your patients who are not at all aware that they need to take special care of their feet?



Mean value*

On average, practitioners state that **41%** of affected persons do not know that they need **to look after their feet.**

n = 120, unweighted basis; * Basis: n = 46,099 patients

0 % to less than 25 %
25 % to less than 50 %

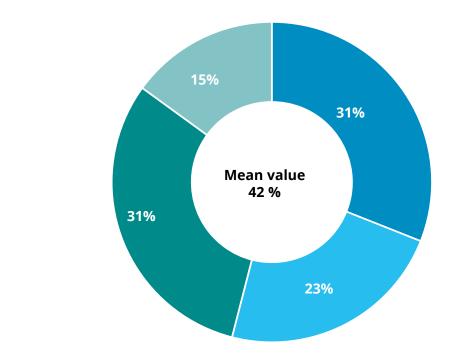
50 % to less than 75 %

75 % to 100 %



One in four people do not know what an ulcer is and how it develops

How highly do you estimate the proportion of your patients who do not know what an ulcer is and how it develops?



Mean value*

On average, practitioners state that 42% of affected persons do not know what an ulcer is and how it develops.



n = 120, unweighted basis; * Basis: n = 46,099 patients

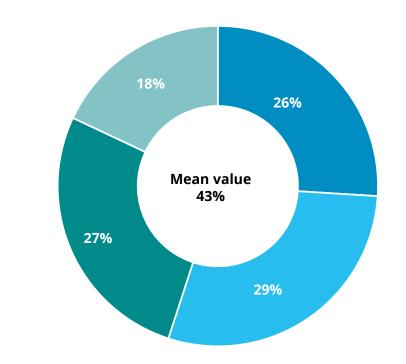
0 % to less than 25 %
25 % to less than 50 %

50 % to less than 75 %

75 % to 100 %

Not even half know the specific risks of a foot lesion

How highly do you estimate the proportion of your patients who are generally well informed about the risks of a foot lesion?



Mean value*

On average, practitioners state that **43%** of patients are well informed about the risks of a **foot lesion**.

n = 120, unweighted basis; * Basis: n = 46,099 patients

0 % to less than 25 %
25 % to less than 50 %

50 % to less than 75 %

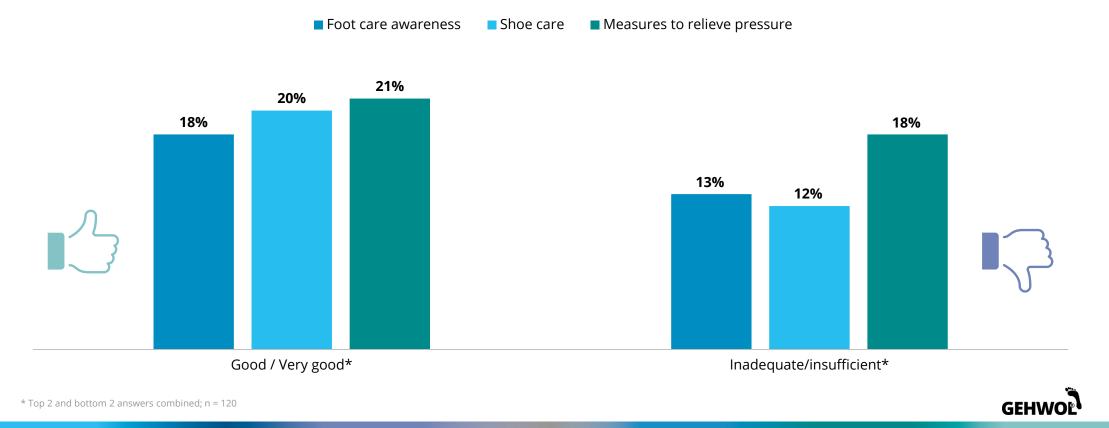
75 % to 100 %



Treating persons

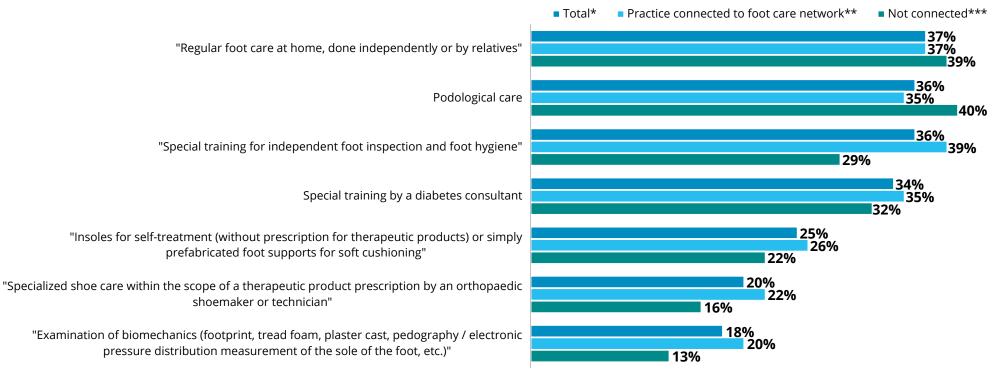
Few top ratings for care awareness and other measures

How practitioners assess the implementation of their patients' measures



Two thirds and more do not take various precautionary measures

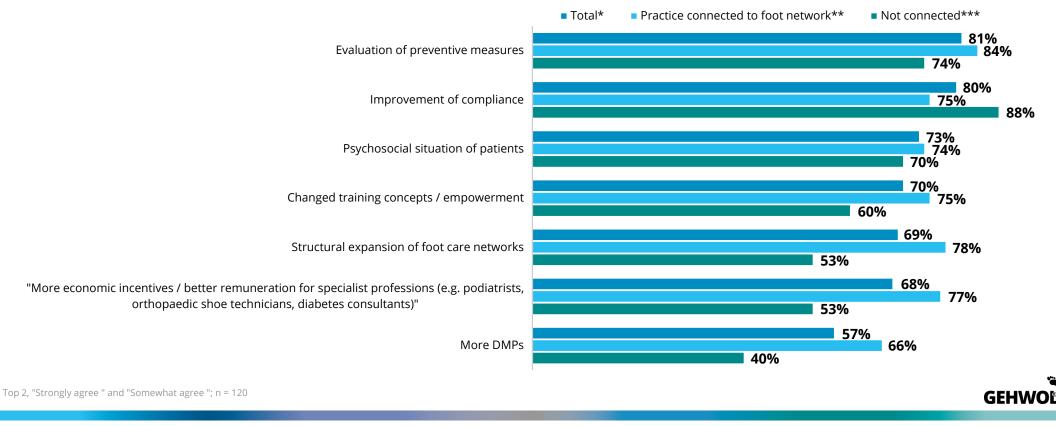
Proportion of patients who take precautionary measures with regard to their feet





Evaluation of measures, better compliance, psychosocial situation: A lot of potential is seen here

Practitioners who see a need for action to improve prevention in these areas





DISEASE AWARENESS AND IMPLEMENTATION OF PREVENTION From the perspective of affected persons



The majority are generally aware of secondary complications, but lack detailed knowledge

n = 500

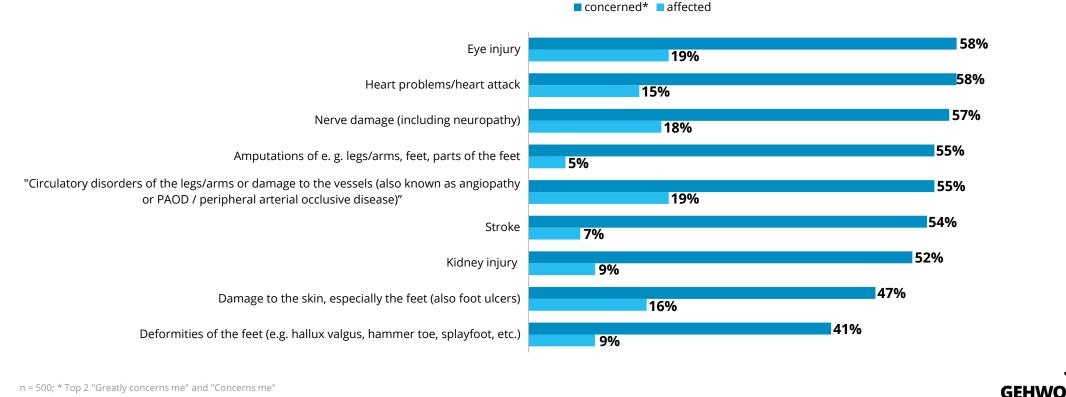
17% 94% of respondents are Know the disease, 32% 30% aware that diabetes can but not the risks lead to **complications** around the foot (wounds, Know the disease and DFS 42% Foot ulcer the risks ulcers, infections, etc.). Are uninformed 27% 51%

Patients who know what diabetic foot syndrome (DFS) / foot ulcers are and what risks may be associated with them

GEHWOD

The biggest concerns are eye, heart and nerve damage

Patients who are concerned about / have been affected by comorbidities of diabetes

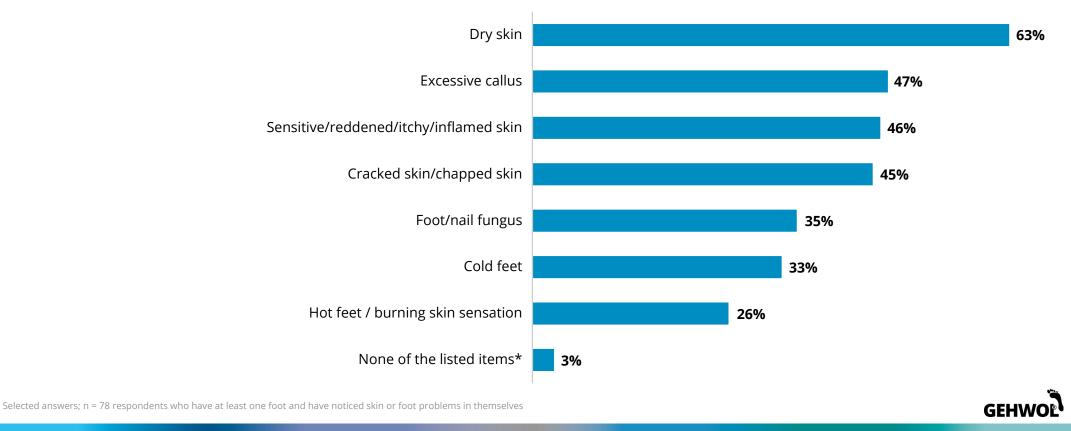


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n = 500; * Top 2 "Greatly concerns me" and "Concerns me"

Dry skin is the most common foot problem

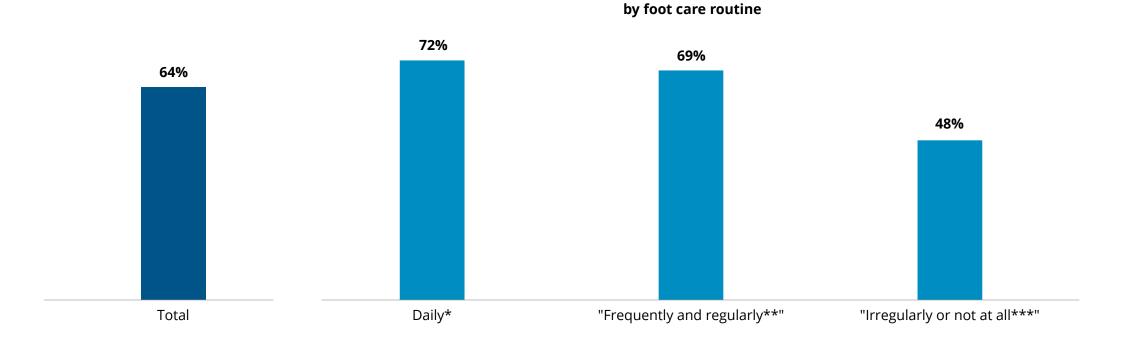
Which of the following skin or foot problems have you noticed?



Affected persons

The more frequent the care, the greater the satisfaction with the feet

Patients who are generally satisfied with the condition of their feet



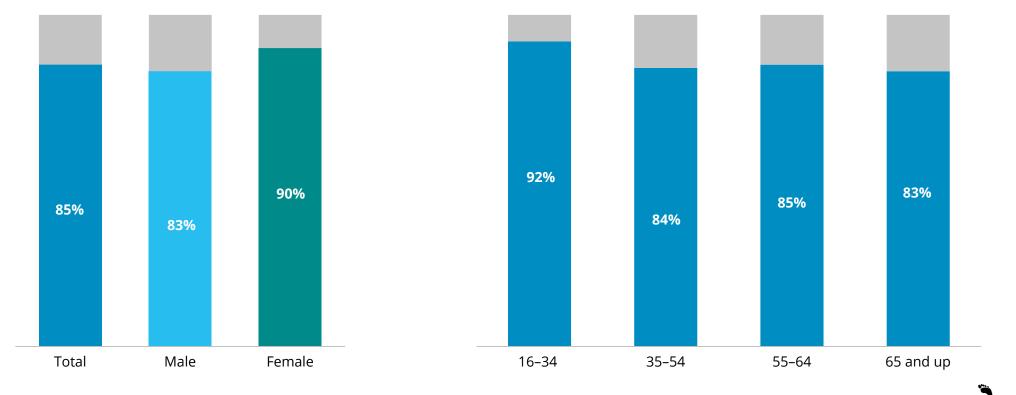
Top 2, "Strongly agree" and "Somewhat agree"; n = 492 respondents who have at least one foot; * n = 115; ** n = 249; *** n = 128



Affected persons

Foot care is most important for women and young affected persons

Patients for whom regular foot care is (very) important



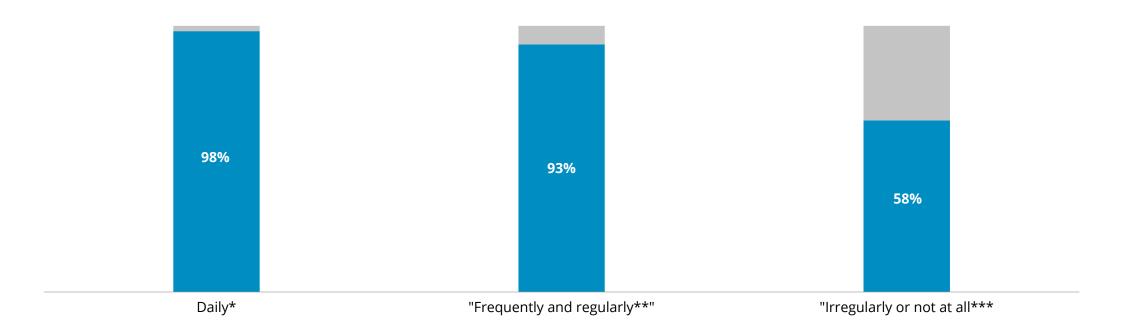
Top 2, "Very important" and "Important"; n = 492 respondents who have at least one foot; n male = 332; n female = 160; n 16-34 = 66; n 35-54 = 133; n 55-64 = 131; n 65 and older = 162

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GEHV

Almost 60 percent do not care for their feet regularly, but find foot care important

Patients for whom regular foot care is (very) important by care routine

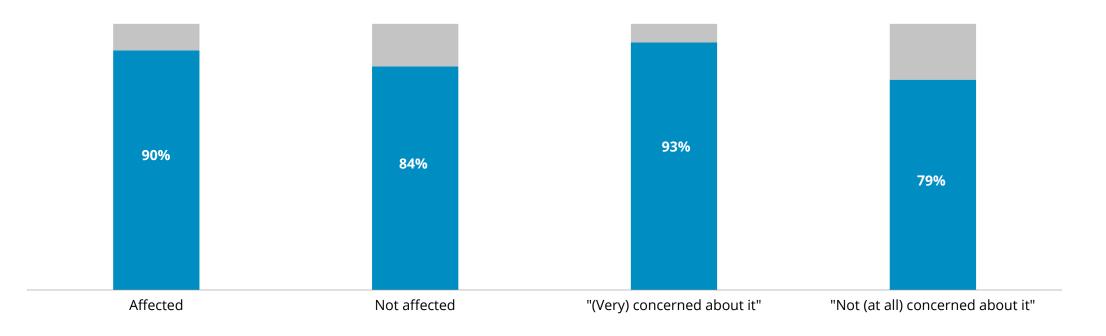


Top 2, "Very important" and "Important"; n = 492 respondents who have at least one foot; * n = 115; ** n = 249; *** n = 128



Those who have foot problems or are concerned about them consider foot care particularly important

Patients for whom regular foot care is (very) important by skin damage*

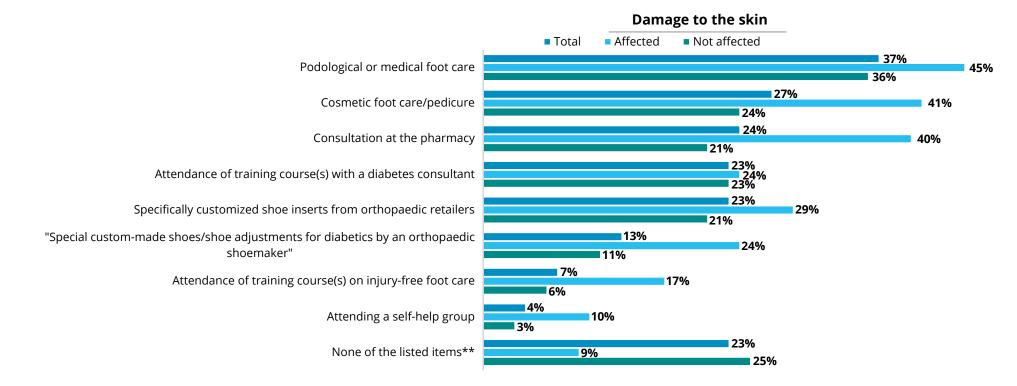


* Damage to the skin, especially the feet (including foot ulcers); n affected = 78; n not affected = 414; n "Concerns me (a lot)" = 229; n "Doesn't concern me (at all)" = 110



Preventive measures are more likely to be taken by those already affected by skin damage

What preventive measures do you take to avoid skin and foot problems caused by diabetes?

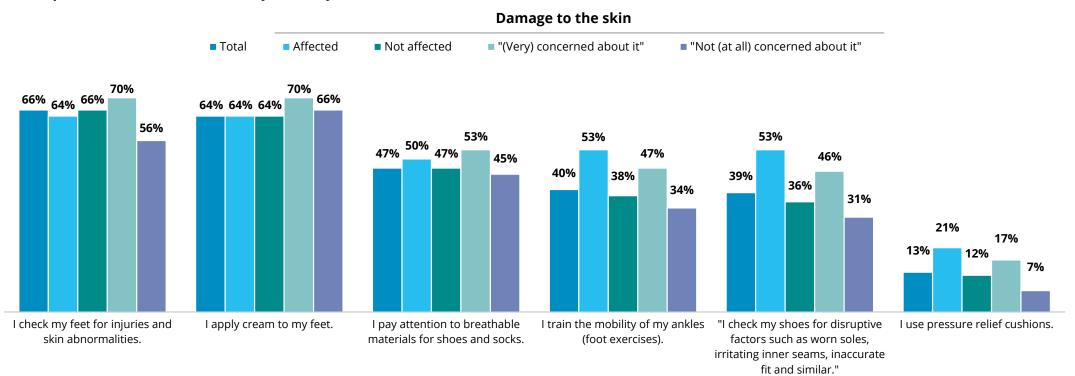


n = 492 respondents who have at least one foot; multiple answers possible; * Damage to the skin, especially the feet (including foot ulcers); n affected = 78; n not affected = 414; n "Concerns me (a lot)" = 229; n "Doesn't concern me (at all)" = 110; ** Exclusive option



Concerned persons are the most active in foot care themselves

What specific foot care measures do you take yourself?



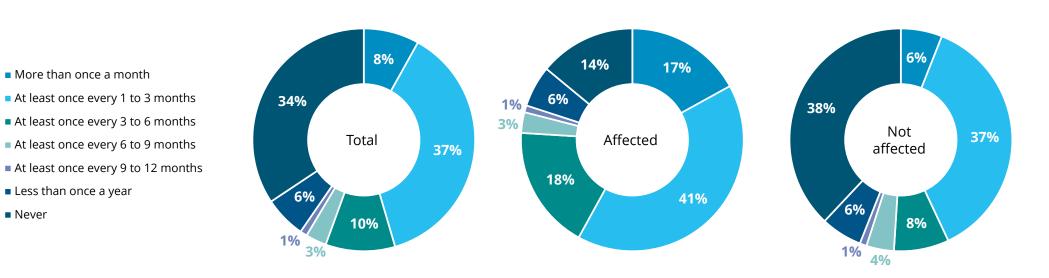
Answer selection; n = 492 respondents who have at least one foot; multiple answers possible; * Damage to the skin, especially the feet (including foot ulcers); n affected = 78; n not affected = 414; n "Concerns me (a lot)" = 229; n "Doesn't concern me (at all)" = 110



People not affected by skin damage visit a podologist with similar frequency

How often do you go to a podologist (medical foot care)?

Never



Damage to the skin*

n = 492 respondents who have at least one foot; * Damage to the skin, especially the feet (including foot ulcers); n affected = 78; n not affected = 414; n "Concerns me (a lot)" = 229; n "Doesn't concern me (at all)" = 110



Almost every second person with a low income never goes for foot care

month

to 3 months

to 6 months

to 9 months

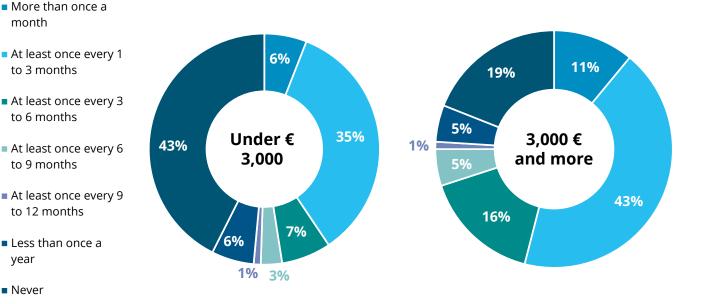
to 12 months

year

Never

How often do you go to a podologist (medical foot care)? By net household income

75% of patients **pay** for podological treatments themselves, at least in part. Only 25% of treatments are fully reimbursed by the health insurance company.



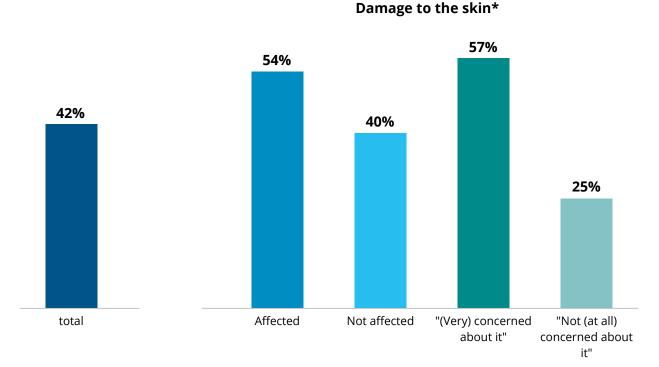
n = 323 respondents who have at least one foot and who see a podologist

n = 492 respondents with at least one foot; n household income under €3,000 = 298: n household income €3.000 and more = 176



People affected by skin damage and concerned persons would like to see a podologist more often

Patients who would like to see a podologist more often

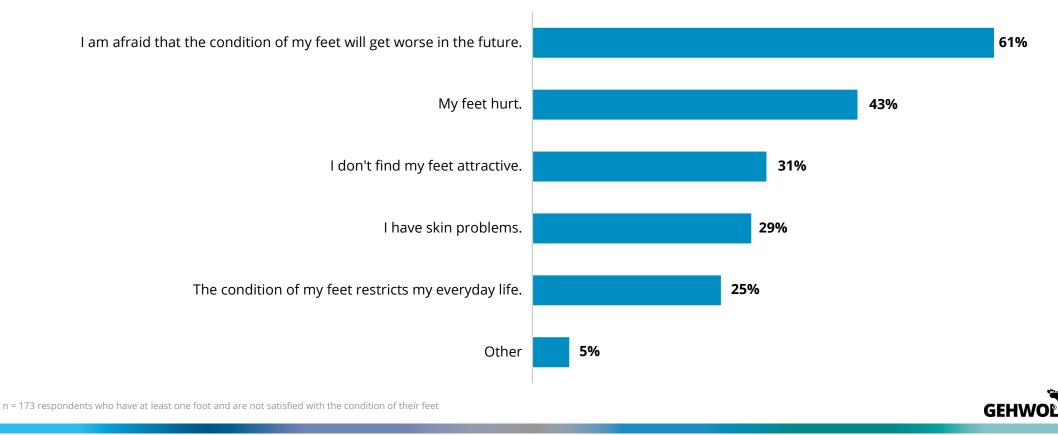


Top 2, "Strongly agree" and "Somewhat agree"; n = 492 respondents who have at least one foot; * Damage to the skin, especially the feet (including foot ulcers); n affected = 78; n not affected = 414; n "Concerns me (a lot)" = 229; n "Doesn't concern me (at all)" = 110



The biggest concern is deterioration of the condition of the feet

With what are you dissatisfied, or what are you concerned about with your feet?



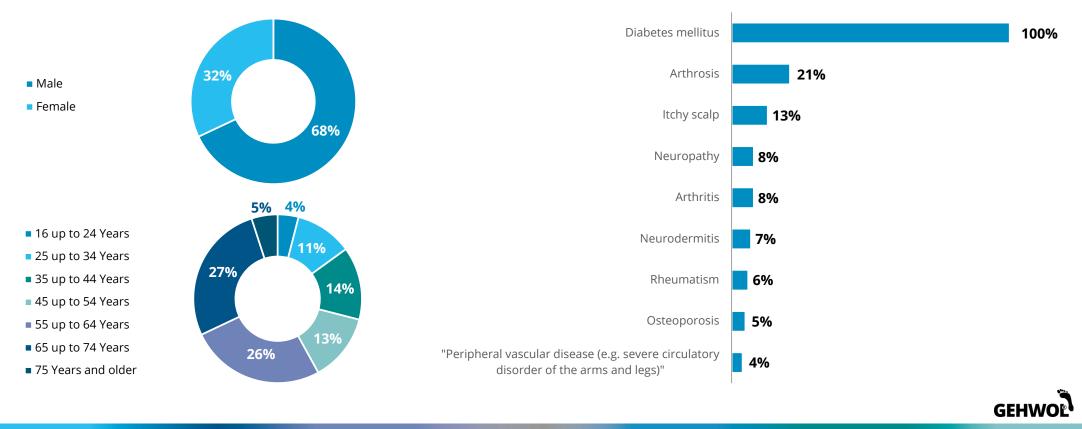


METHODOLOGY



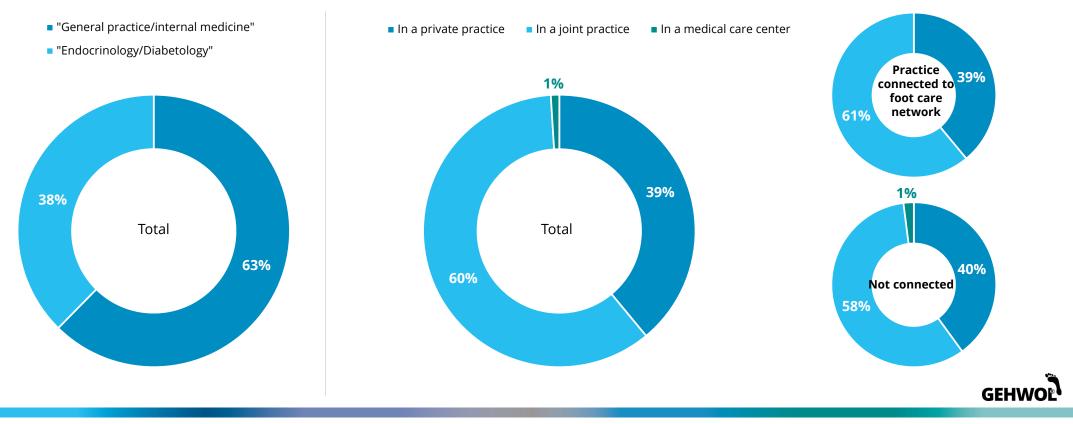
Affected persons - survey via online access panel

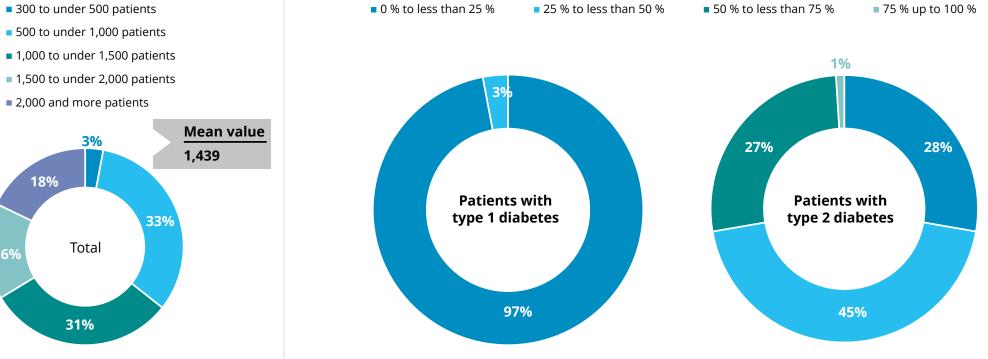
n = 500 people with diabetes mellitus in Germany, survey period: 6. June to 13. June 2023



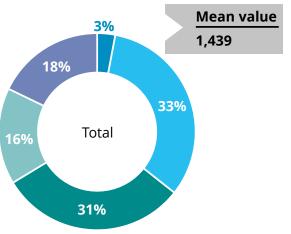
Treating persons - survey via online access panel

n = 120 general practitioners, internists and diabetologists who have at least 300 patients per quarter and treat a sufficient number of diabetes patients, survey period: 26. May to 26. July 2023









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