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Reducing the burden of diabetic foot disease

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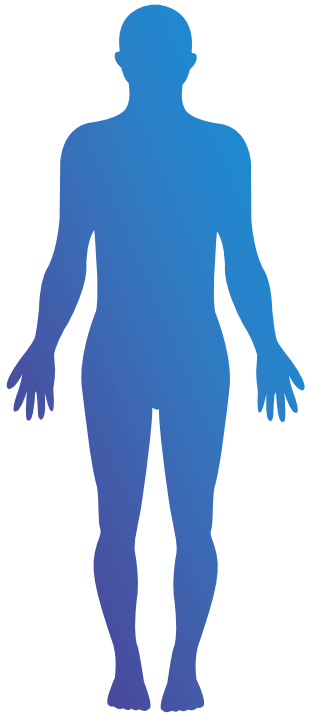
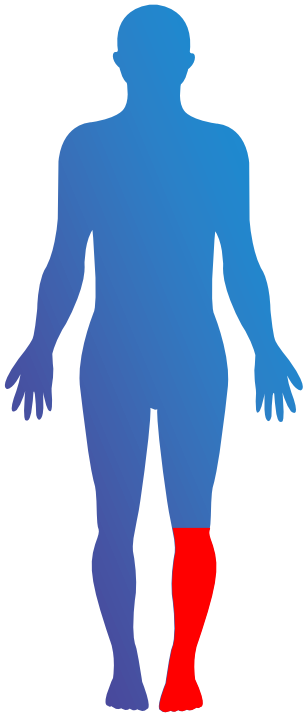
Diabetes in the Ireland



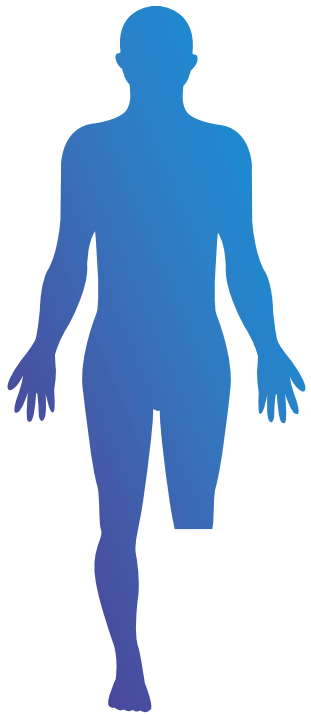
225,000

people with diabetes



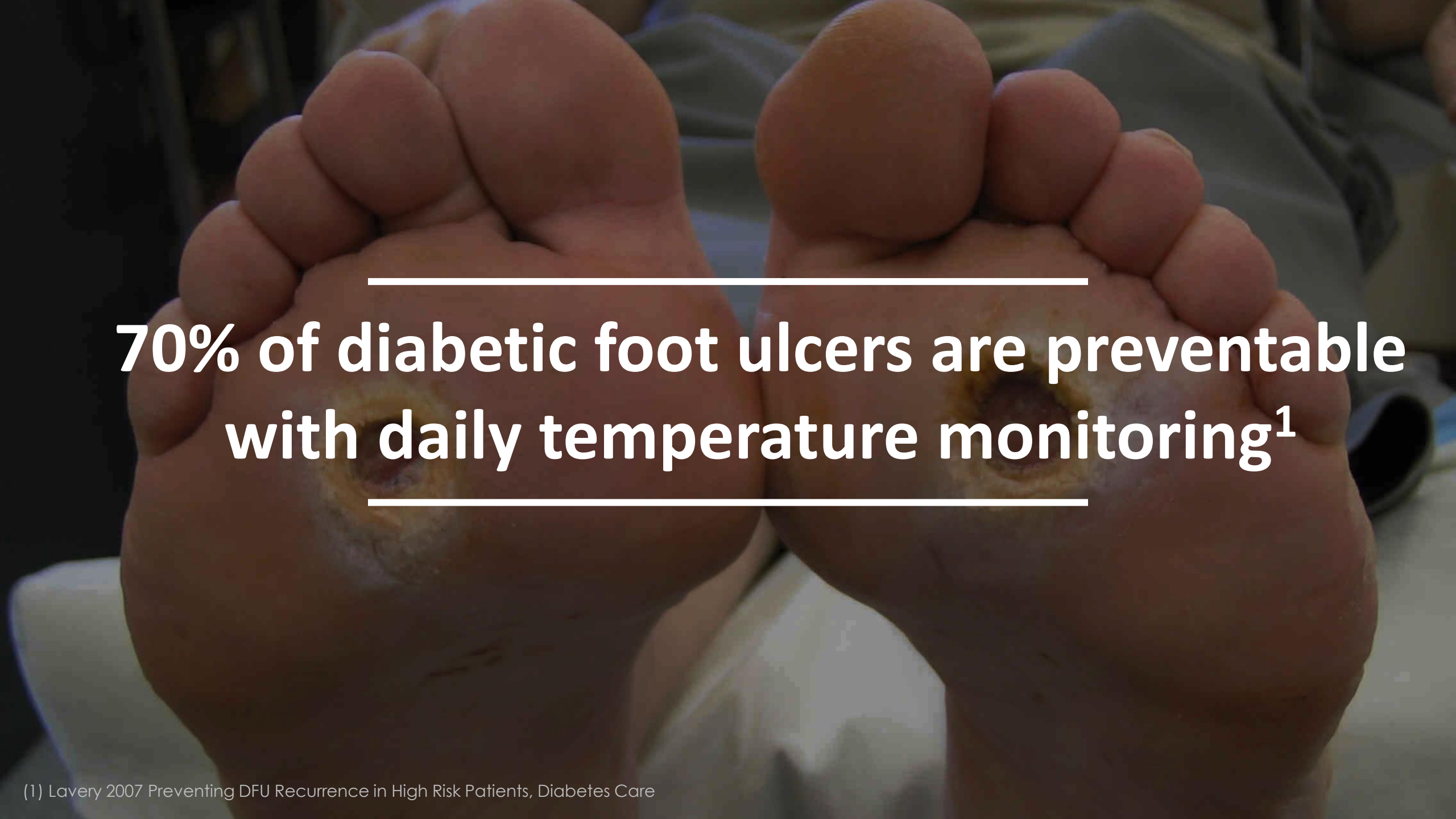
56,250

will develop a foot ulcer



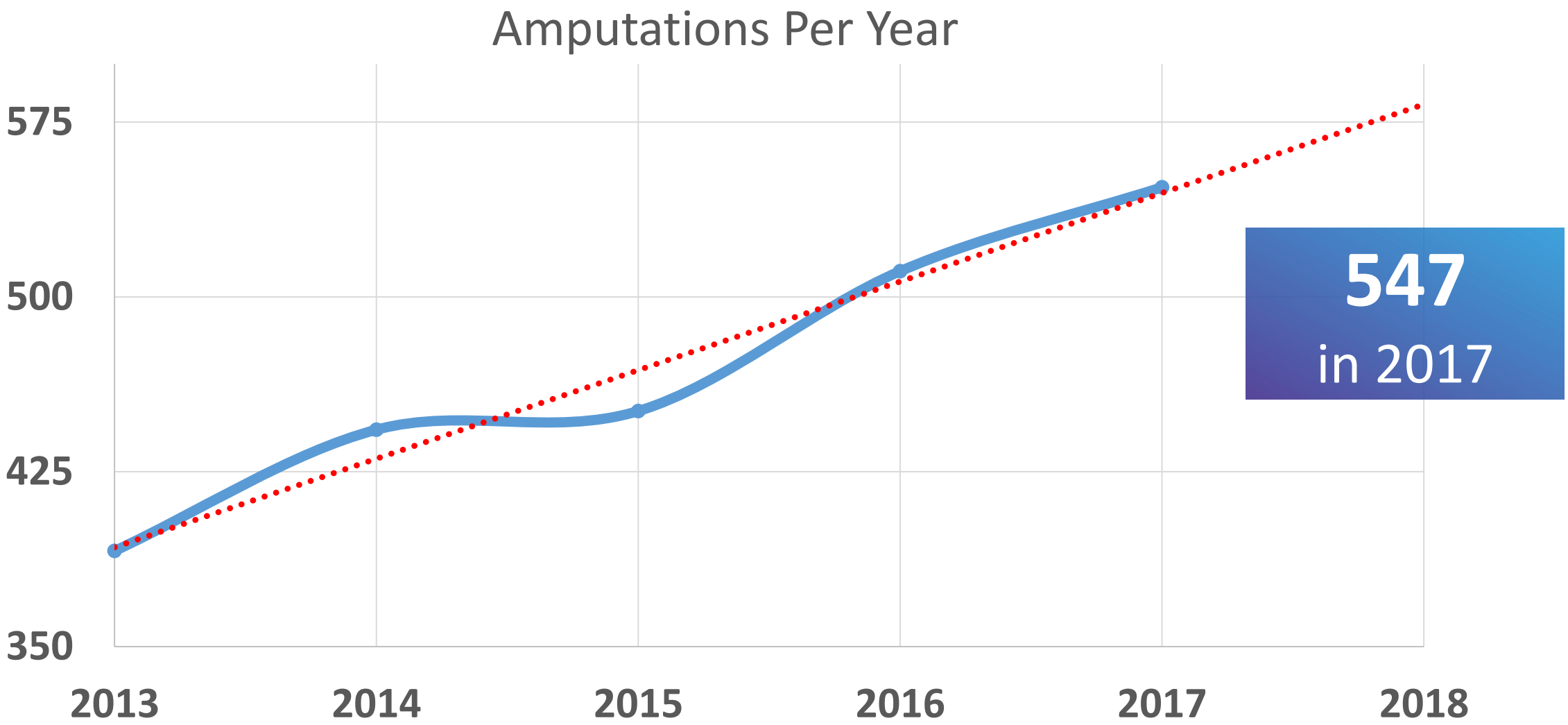
8,437

will require an amputation



(1) Lavery 2007 Preventing DFU Recurrence in High Risk Patients, Diabetes Care

The impact of diabetic foot ulcers in Ireland



Cost of Diabetic Foot Ulcers

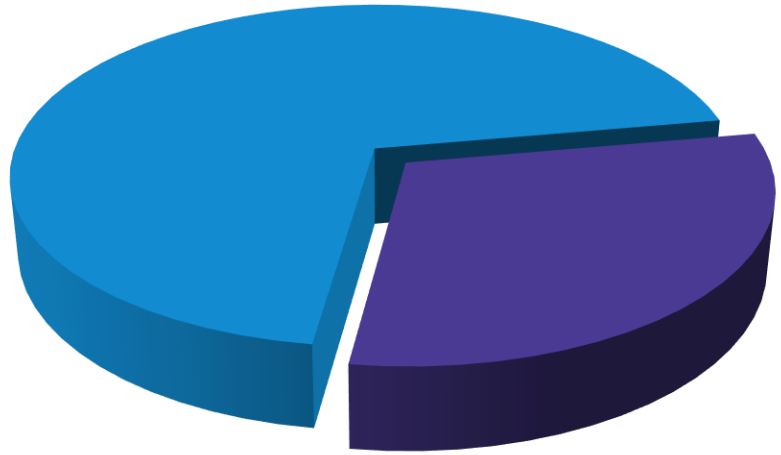
Costs

- €30,000 per inpatient treatment[5]
- 1.2% of total HSE Budget[9]

Bed nights

- 2,628 hospitalised in 2017[1]
- 20 days in hospital per admission
- 52,560 bed nights[9]
- 144 patients in hospital every night

€197 Million[6]
annual cost of diabetic foot ulcers



€118 Million
outpatient
savings per year

€79 Million[7]
in inpatient
savings

5) Diabetes Ireland 2018 Diabetes-related amputations continue to rise 2015
6) Calculated based on inpatient cost being 40% of total as it is in UK Kerr 2017 Diabetic Foot Care in England : An Economic Study
7) Calculated based on cost of inpatient stay being €30k[5] and there being 2,628 admissions[1]
8) Smith 2004 The cost of managing diabetic foot ulceration in an Irish hospital
9) Calculated based on total healthcare budget being €16 billion per year and total DFU cost being €197 million

Background to the disease

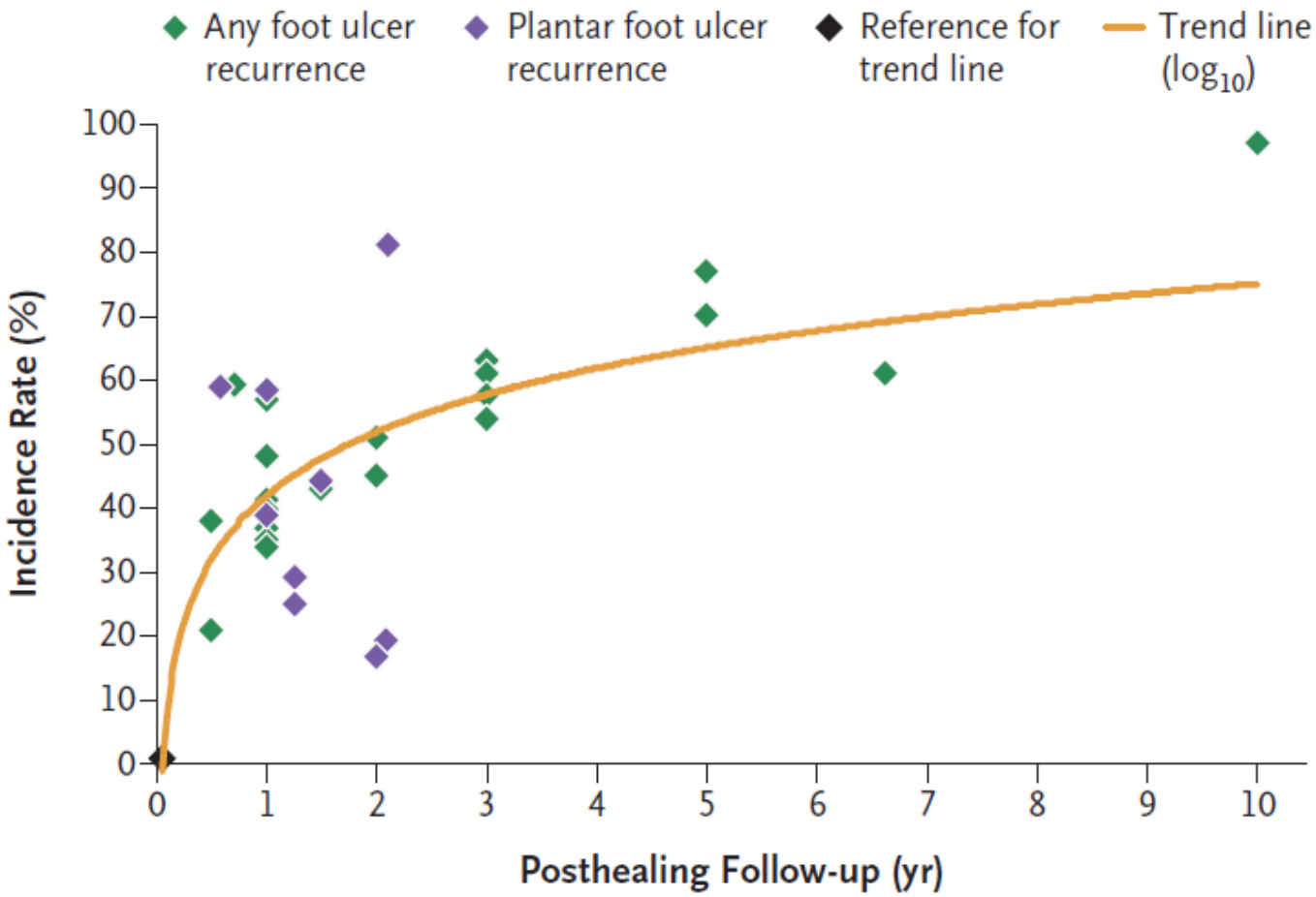
Peripheral Neuropathy	Minor Injury Undetected	Develop Into Ulcers	Long Term Treatment	Amputation

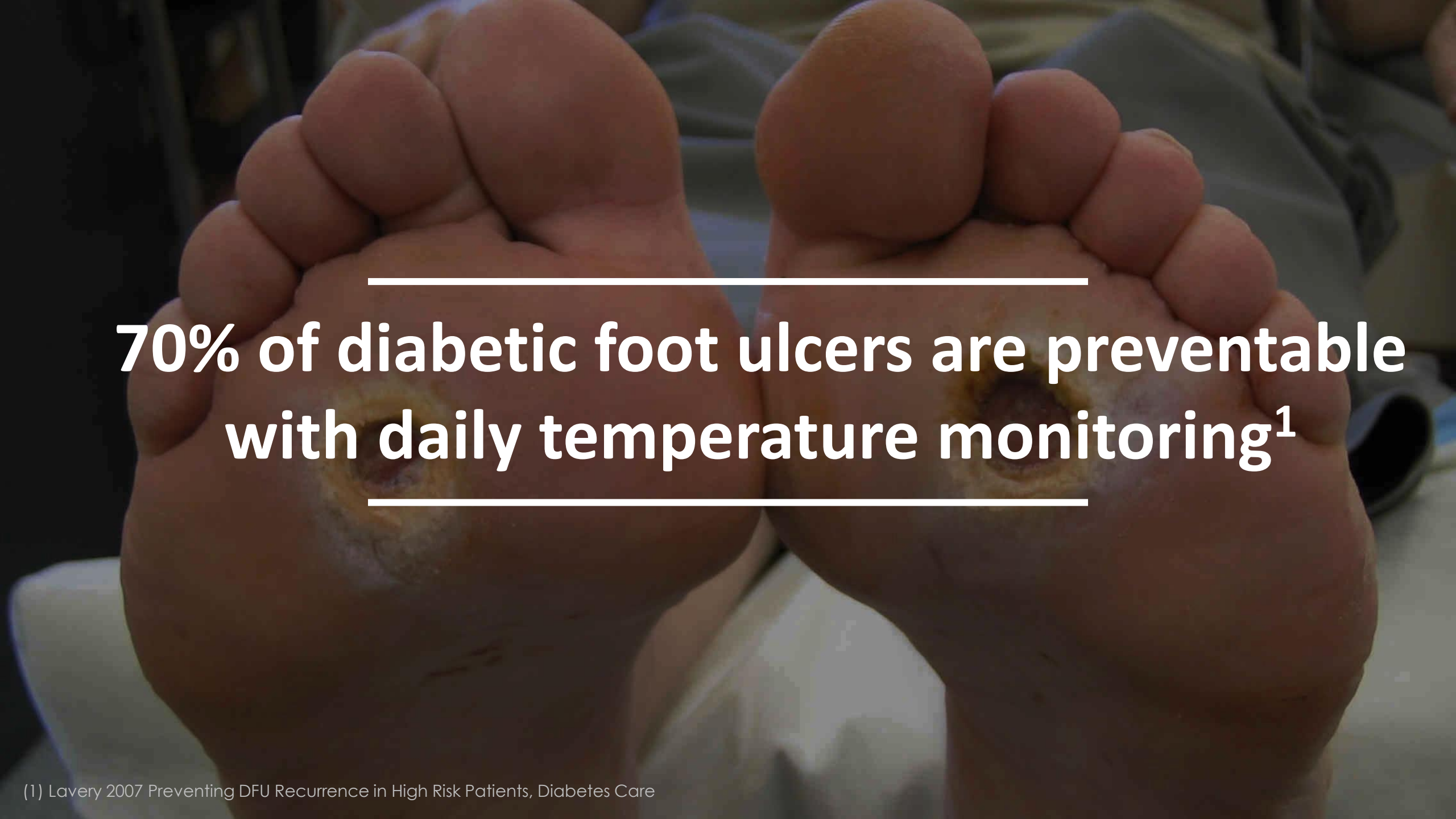
Early identification and intervention results in simpler and shorter treatments, reduced costs and improved outcomes

High Ulcer Recurrence Rate

40%

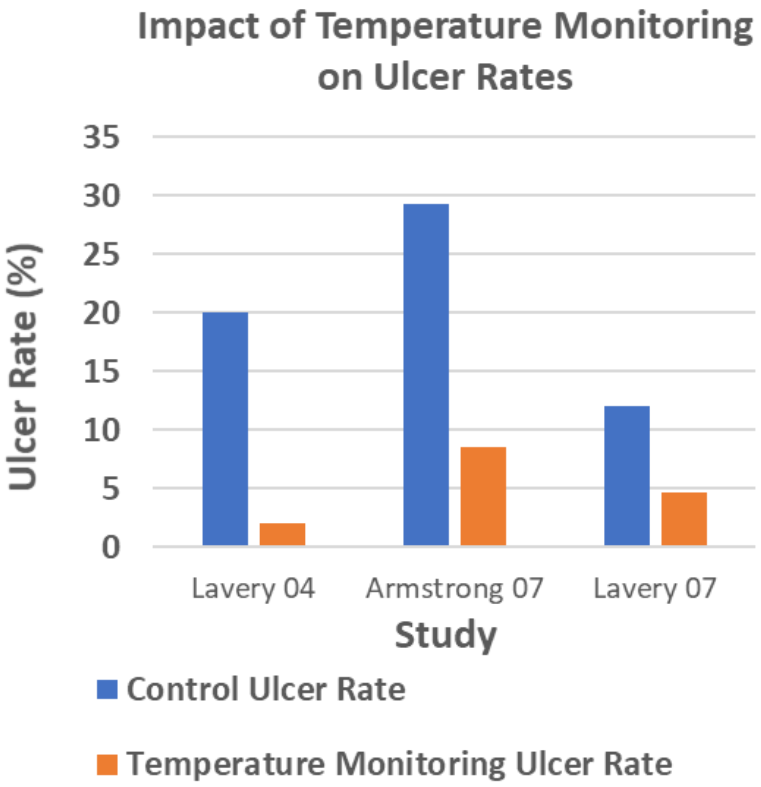
of healed ulcers will re-develop within 12 months

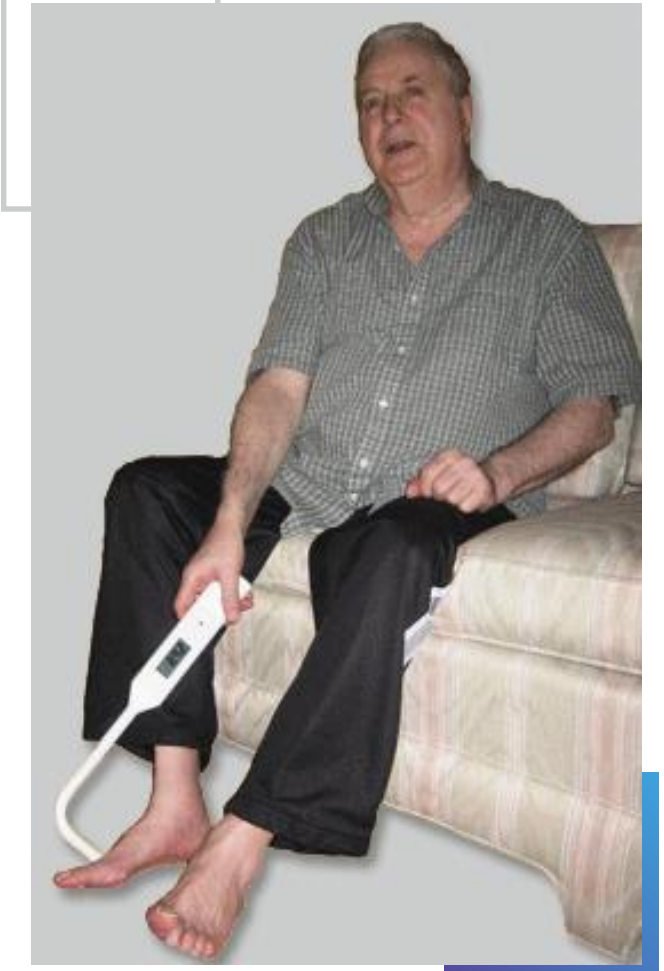




(1) Lavery 2007 Preventing DFU Recurrence in High Risk Patients, Diabetes Care

Temperature Monitoring Shown To Prevent 70% Of Foot Ulcers





70%
prevention

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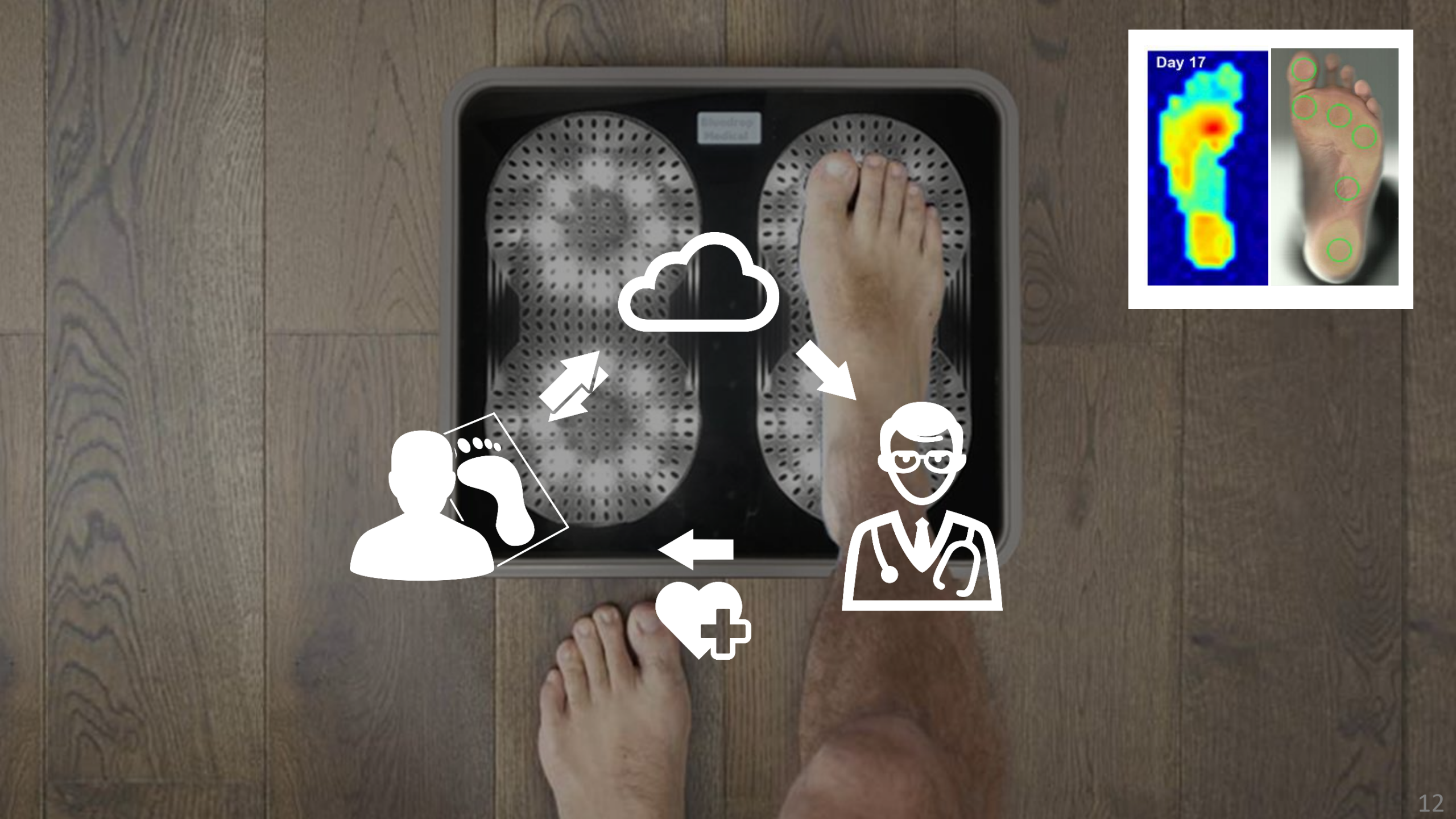
Bluedrop Medical is Revolutionising Diabetic Foot Ulcer prevention by developing the worlds most advanced thermal and visual diabetic foot monitoring device


Day 17

Recommendations For At Home Temperature Monitoring

HSE National Wound Management Guidelines 2018

Instruct an at-risk patient with diabetes to **monitor foot skin temperature at home** to prevent a first or recurrent plantar foot ulcer.

Also recommended by international groups

WHS Wound Healing Society

American College of Foot and Ankle Surgeons

IWGDF Guidance

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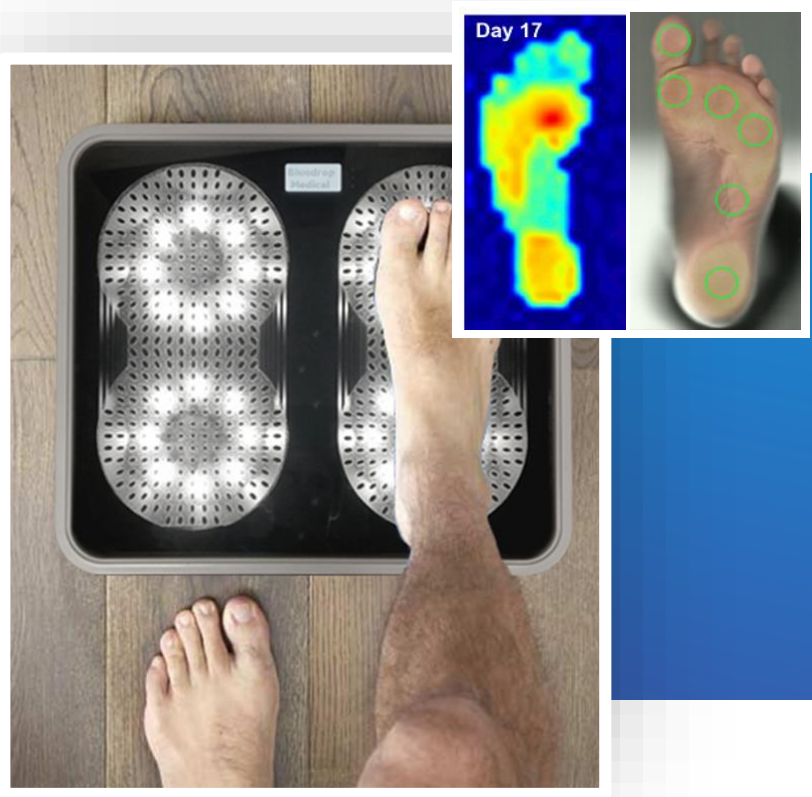
Temperature Monitoring Shown To Prevent 70% Of DFU

- 10 minutes
- Not currently available
- Temperature only

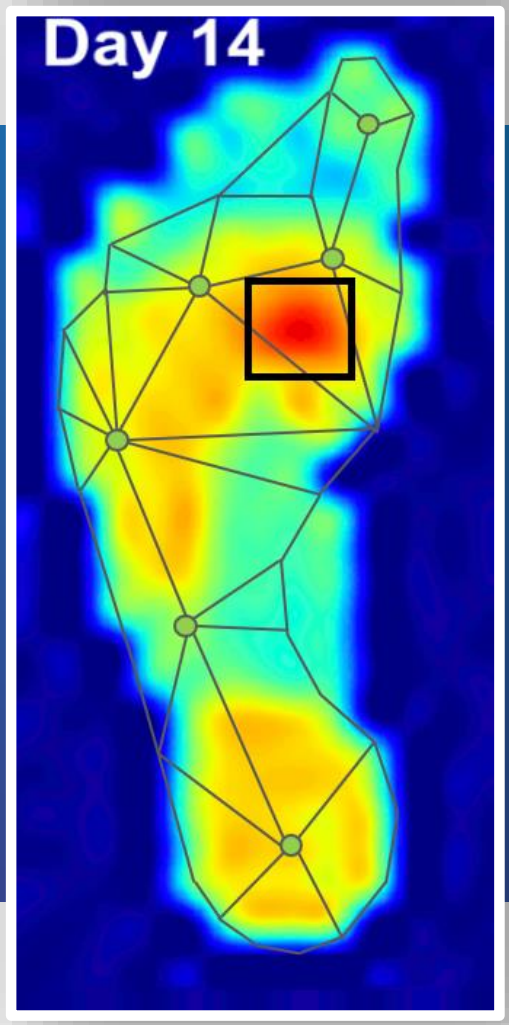


- 20 seconds
- Thermal and photographic

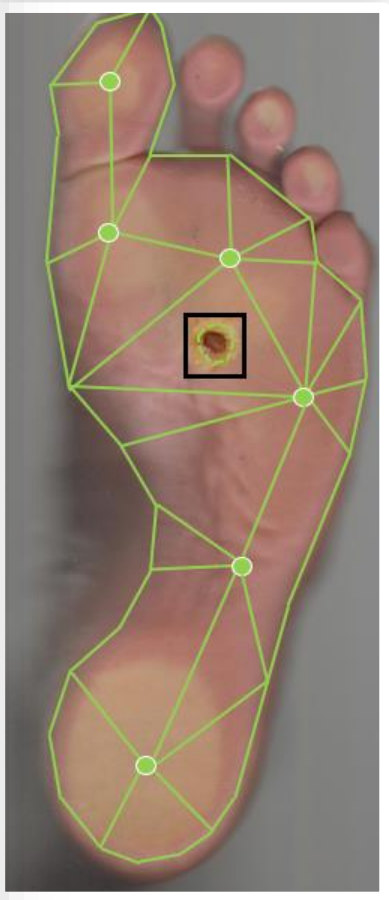
Analysis

- Scan
- Monitor
- Report
- Prevent

Thermal



Photographic



Benefit Of Temperature Monitoring

Care moved out of inpatient setting to primary care and the home

Early identification of ulcers

Cost reductions

Quality of life improvements

70%

Prevention of 70% of ulcers

Fewer amputations

The Financial Impact

Expensive Issue

€30,000 per ulcer[1]

Focused Cohort

Improved Outcomes

Potential annual savings of

€3,000 per patient

using temperature monitoring

Even at prevention rates as low as 25%
the system is still cost effective

1. Based on the data in slide 6. It is estimated that there are 7075 DFU per year. The total cost is estimated at €211 M in 2016. Average DFU is therefore €30k. Full model available on request

Potential Impact in Ireland: Temperature Monitoring

There are 7,075 recurrent risk patients in Ireland:

Potential Impact*	
Diabetic foot ulcers prevented	1,981
Amputations prevented	153
Admissions prevented	735
Beds freed per night	40

*Assuming prevention rates in line with existing evidence (70%)

€40 Million
Prevented costs per year

€24 Million
outpatient savings per year

€16 Million
in inpatient savings

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