Investing in Primary Care for Diabetes patients (Aruba)

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How it started ...



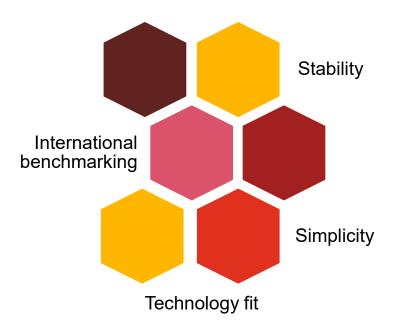
Increasing cost of secondary care



Lack of transparancy of quality and efficiency



Selection of a new system for cost management and quality control



Selecting the Canadian CMG (DRG) system

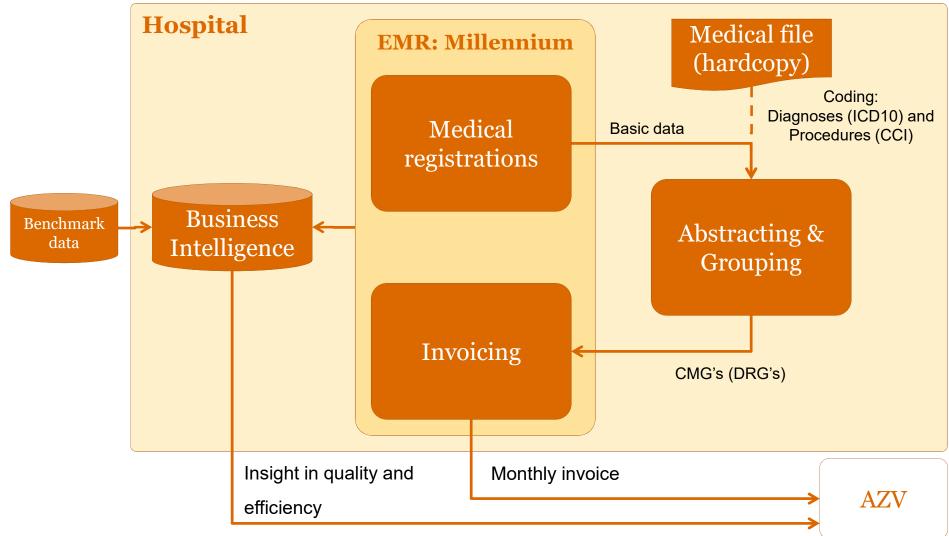








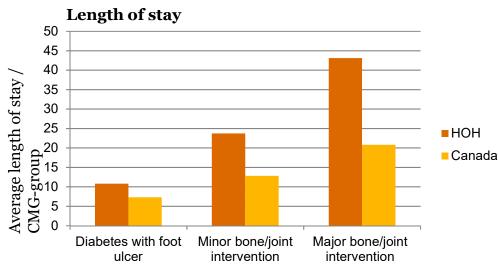
Implementing the DRG-system

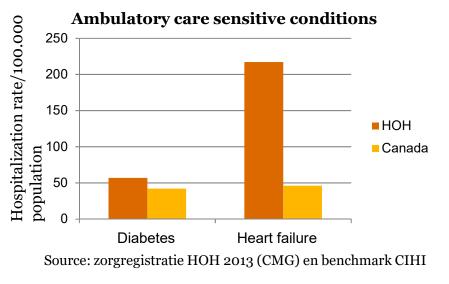


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A whole new insight in cost and quality of secondary care

Many and heavy complications of diabetes





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Relatively heavy late complications

Therapeutic non-compliance leads to high admission rates (with a 5,2% 28-day readmission rate)

Our answer: Transmural Diabetes Care

Current costs (2014)

Cost level Primary care Diabetes

2014

Cost level Primary care Diabetes

2025

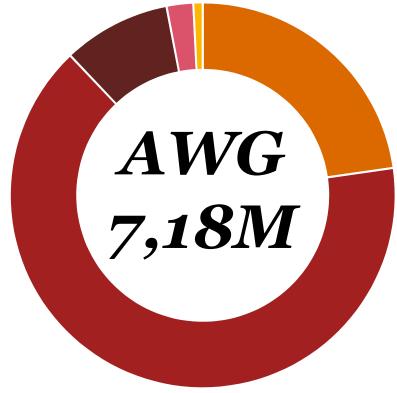
Costs of nurse practicioners



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October 2016 8 Medication and lab tests biggest cost components Aruban primary for care diabetes

Cost level 2014¹



Medication; AWG 4,68M²

Lab tests; AWG 1,63M²

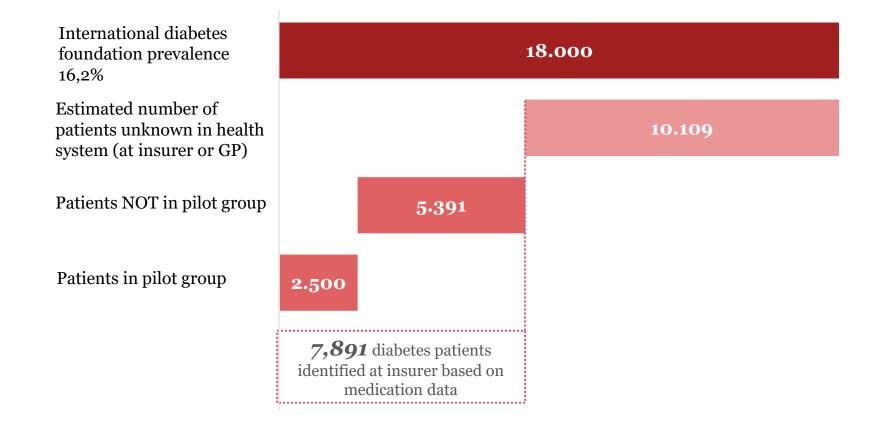
Practitioner; AWG 0,65M³

Diabetes nurse; AWG 0,16M³

Podo / dietist; AWG 0,06M³

1: Excluding GP fee 2: Invoicing data AZV 3: Wit Gele Kruis / ImSan

Approximately 43% of the patients known in the Aruban Healthcare domain



Source: International Diabetes Foundation (IDF), AZV, Werkgroep

Investing in Primary Care

Cost level Primary care Diabetes

2014

Cost level Primary care Diabetes

2025

Extra nurse practicioners

Costs of nurse practicioners



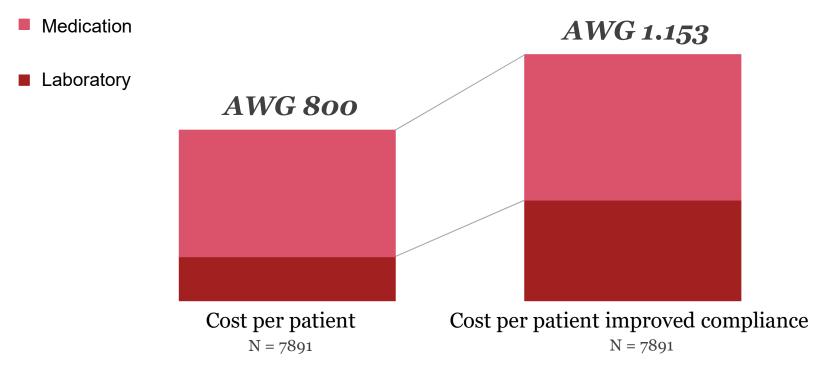
Current costs

Improved compliance and detection

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44% cost increase per patient due to improved compliance

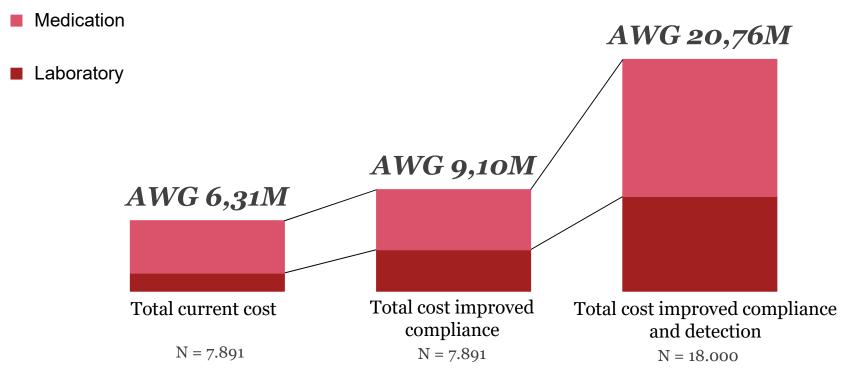
Average cost per diabetes patient (excl. GP fee)



Source: Declaratiegegevens AZV gekoppeld aan protocol Transmurale Multidisciplinaire Ketenzorg DMII

Further increase due to improved detection

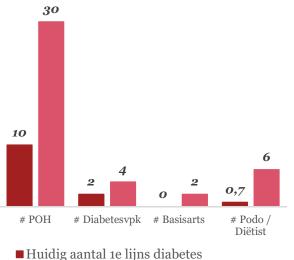
Total cost increase (excl. GP fee)



Bron: Declaratiegegevens AZV gekoppeld aan protocol Transmurale Multidisciplinaire Ketenzorg DMII

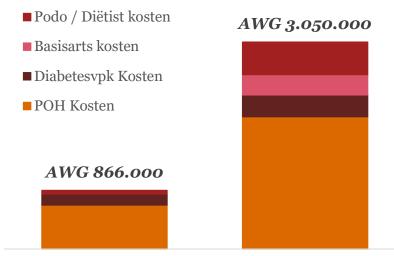
Investing in nurse practitioners

Number of practitioners in primary diabetes care current and optimal



- zorgverleners
- Aantal zorgverleners bij optimale invulling protocol

Total cost of nurse practitioners



Kosten 1e lijn zorgverleners 2014 Kosten 1e lijn zorgverleners bij optimale invulling protocol 2025

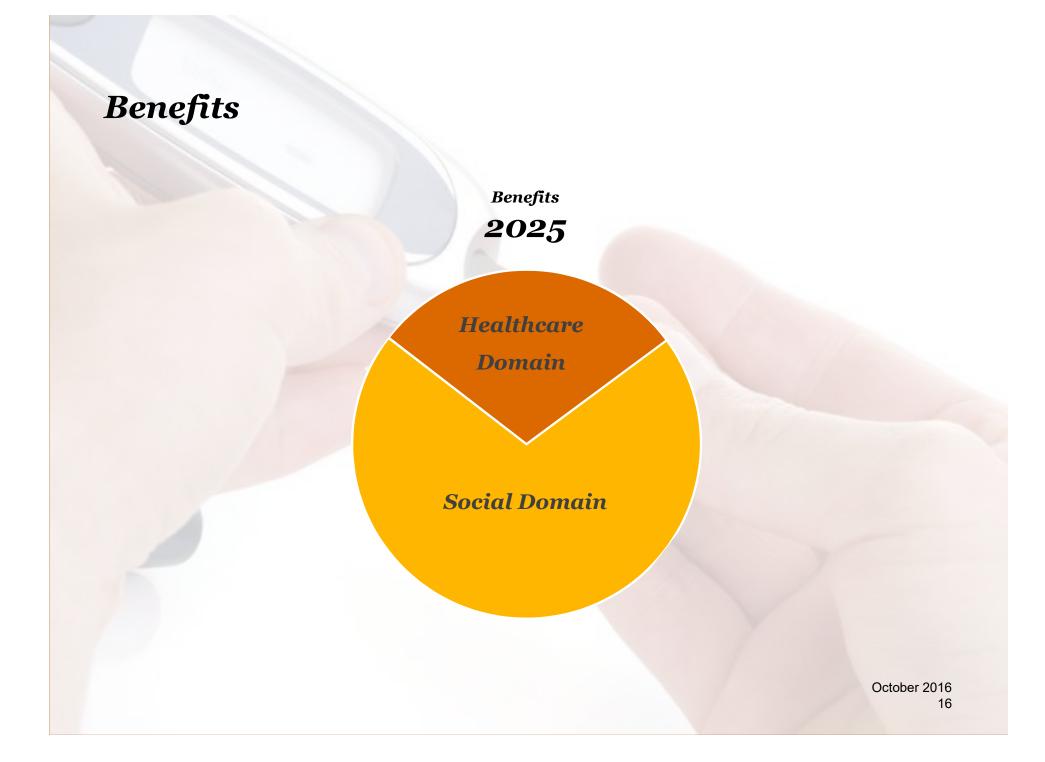
Source: Declaratiegegevens AZV gekoppeld aan protocol *Transmurale Multidisciplinaire Ketenzorg DMII* * Exclusief honorarium en andere kosten huisartsen

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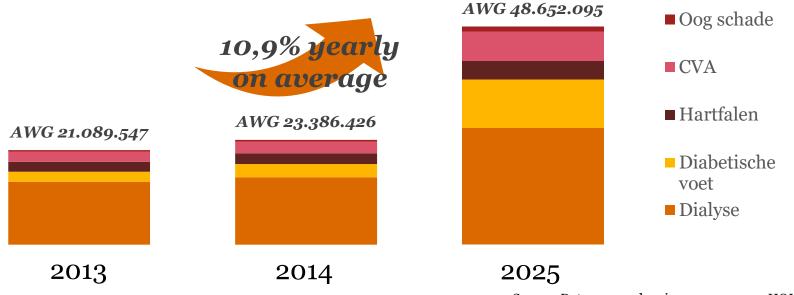
Other investments

- ICT
 - Interfaces of pharmacies with primary care system
 - Interface of laboratories with primary care system
 - Data extraction from primary care system
- Education
 - Existing 40 General Practitioners and 10 Nurse Practitioners
 - 20 new Nurse Practicioners



48,6M cost in 2025 due to a yearly increase in the number of cases

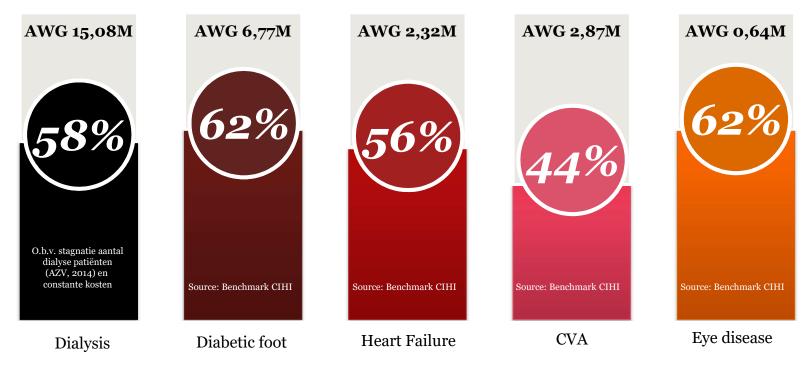
Costs secondary care for diabetes related (clinical) cases



Source: Data per aandoening 2013 en 2014 HOH

27,7M clinical care savings by investing in transmural diabetes care

Saving potential secondary care per complication



Structural benefits higher than costs

