

# Objective and stakeholders **Contents** lleostomy modelling Early model structure **Key functionalities** Model walkthrough



Challenges

### Objective and stakeholders

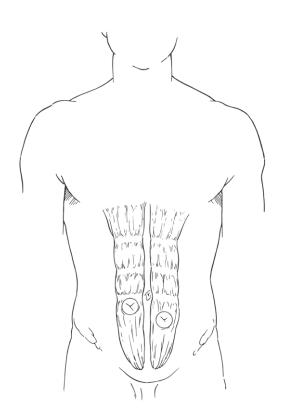
Medtech company with an innovative **ileostomy** management system



Looking for a way to showcase **value** to stakeholders

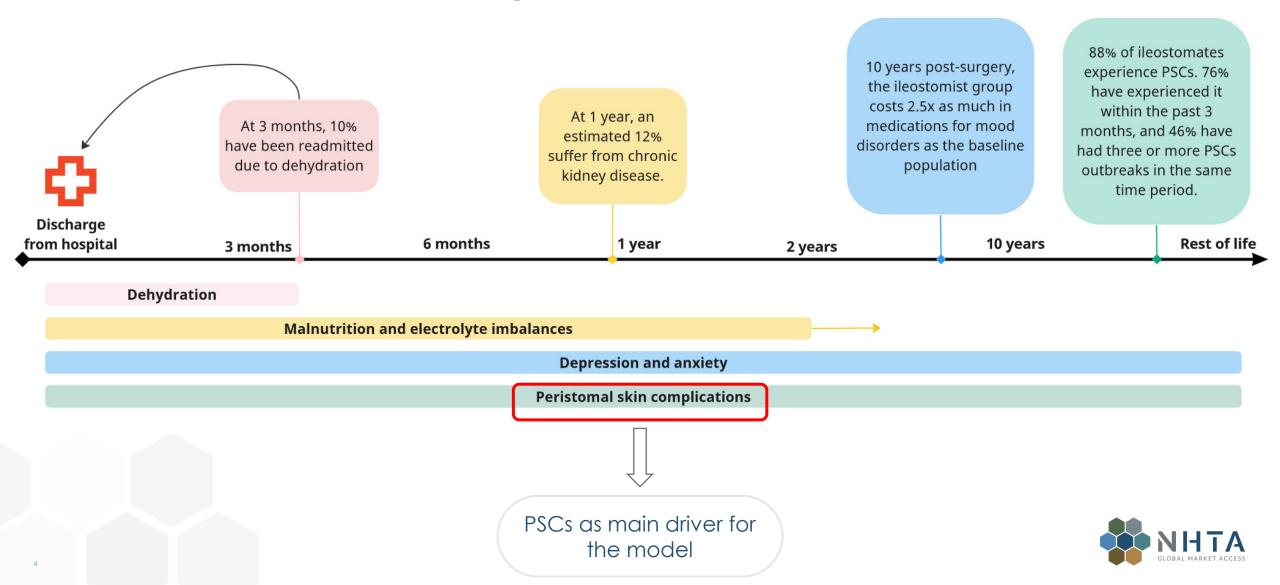


A **model** that can be easily populated with data once new evidence becomes available





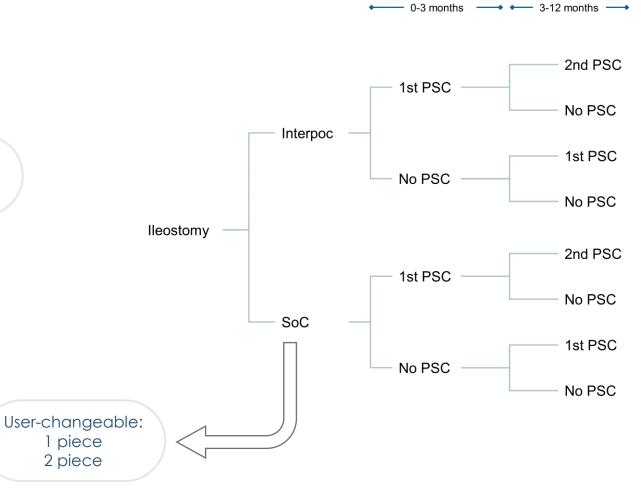
### lleostomy modelling



### Early model structure

Decision tree based on occurrence of **PSC** 

> 1 piece 2 piece





## Early model structure (PICO)

#### **Patients**

lleostomy patients 3 weeks after surgery



#### Intervention

Interpoc – novel ileostomy management system

#### Comparator

SoC:

1-piece or 2-piece systems



#### Outcomes

QALYs Costs ICER



### Functionalities of the Shiny app

The user can select:

- > Type of PSC: mild or severe (each with different decrements and cost)
- > Type of comparator: 1-piece or 2-piece
  - All comparator's inputs can be adjusted independently

The user can save multiple scenarios and load them back into the model as needed:

- > To test different usage patterns
- > To update results once trial data becomes available

Results focus on cost effectiveness of *Interpoc* given the user's inputs

Insights on single inputs to reach specific ICER values





## **Model walkthrough**



### Challenges

- Modelling Medtech devices with scarce data and with no standard approach available Structuring it in a way it that can be easily adapted/changed once new data is generated/collected
- Creating an interface that a non-expert user can navigate and understand:
   Trade-off between "code behind the scene" and "flexibility"
   E.g. Transforming annual probabilities into a 3-months probability > client was not familiar with procedure, happens "behind" the shiny app interface
- > Communicating HE information and outcomes to the general public



### Contact

NICCOLÒ MORGANTE
ASSOCIATE CONSULTANT
nm@nhta.com

Tømmergravsgade 6, 1. sal 2450 Copenhagen SV Denmark

Vasagatan 10 5<sup>th</sup> floor 111 20 Stockholm Sweden

contact@nhta.com www.nhta.com www.nordichta.dk

