DATA & OUTCOME DRIVEN HEALTHCARE

FROM THEORY TO IMPLEMENTATION

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Medtronic Further, Together

DATA DRIVEN HEALTHCAREWHAT IS FIRST

ANALYTICS AND CHANGE MANAGEMENT, WHICH IN TURN LIVE OR DIE BASED ON THEIR SOLID ALIGNMENT AMONG ALL STAKEHOLDERS.

HEALTHCARE DATA BASIC STRUCTURE

ADMINISTRATIVE DATA

CLINICAL DATA

POSITIVES

- Excellent for Healthcare planning
- No lost follow-ups
- No selections bias (population vs samples)
- Cost analysis
- Deaths

NEGATIVES

- Lack of clinical information
 Diagnoses, Indications, Severity
- Linkage pitfalls
- Questionable comparative effectiveness research

POSITIVES

- Clinical information
- Diagnosis validation, Indications, Severity
- Patient is patient before becoming code
- Comparative effectiveness research

NEGATIVES

- Patient lost in the database
- Missing information
- Accuracy on cost / events

Source: Prof. Lorenzo Mantovani

DATA INTEROPERABILITY ULTIMATE KEY FOR CORRECT INTERPRETATION

Personal Health Record Electronic Health Record Health Information Exchange

QUALITY MEASURES

PUBLIC HEALTH

CLINICAL RESEARCH

Patient

Practice

Population

Public

CLINICAL GUIDELINES

CLINICAL GUIDELINES

FIXED HEALTHCARE DATA STRUCTURE IS CRUCIAL AND MANDATORY TO ALL ELEMENT

PATIENT REGISTRIES ARE KEY FOR MEASUREMENT OF THE OUTCOMES

ROLE OF MEDICAL SOCIETIES IS CRUCIAL TO SETUP CORRECT METHODOLOGY

E-HEALTH AS RESOURCE

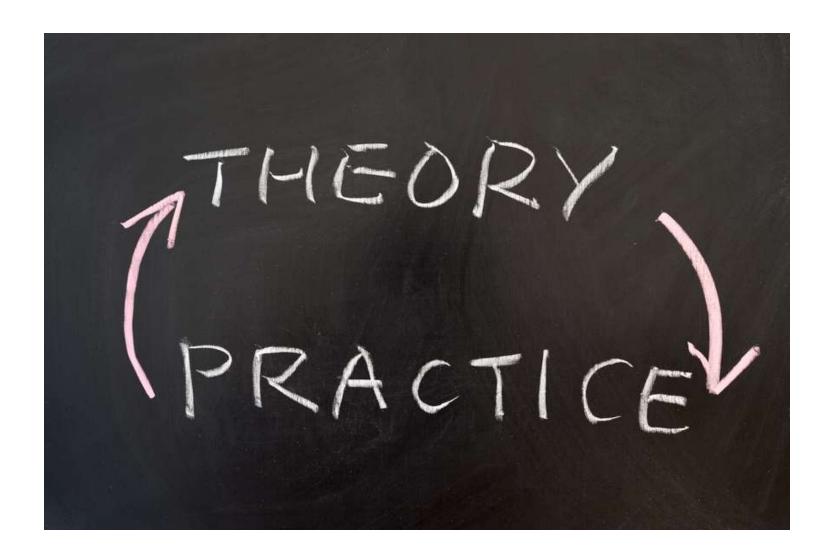


Patient data from Administrative Database

Therapy
Recorded
From
Medical Record

DRG data need to include all details on therapy Therapy
Follow-up
According
Latest Guidelines

PRACTICAL EXAMPLES TO FOLLOW





SLOVAKIA: DIABETES AND HOSPITAL CARE A FEW NUMBERS ON DIABETES ONLY W/O COMPLICATIONS

DIABETES
IS ONE OF THE MOST
FREQUENT CAUSES
OF HOSPITALIZATION
IN SLOVAKIA

RANK 25

8 667
HOSPITALIZATIONS
77 776
CARE DAYS
196
DEATHS

AVERAGE STAY
IN HOSPITAL DUE
DIABETES

9,0 DAYS

ESTIMATED COST OF CARE FOR HOSPITALIZATIONS DUE DIABETES 5,3 MILLION EUROS*

*Based on est cost 68EUR / care day

COULD'T WE IMPROVE CARE AND TAKE OUT THESE PATIENTS FROM HOSPITALS

Source: NCZI 2017

SOLUTION: CGM AND IMPROVED PATIENT MANAGEMENT

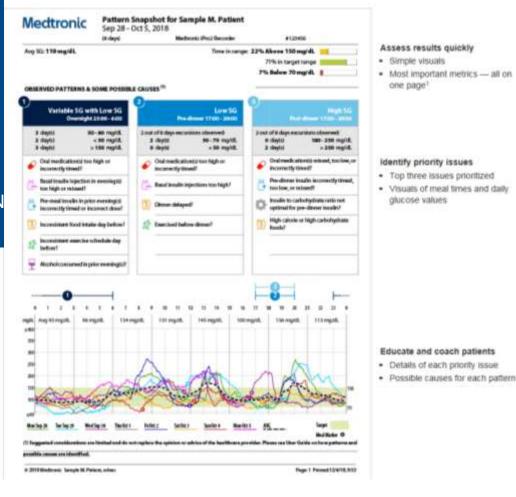
IMPROVE MEASUREMENT OF PATIENT OUTCOMES

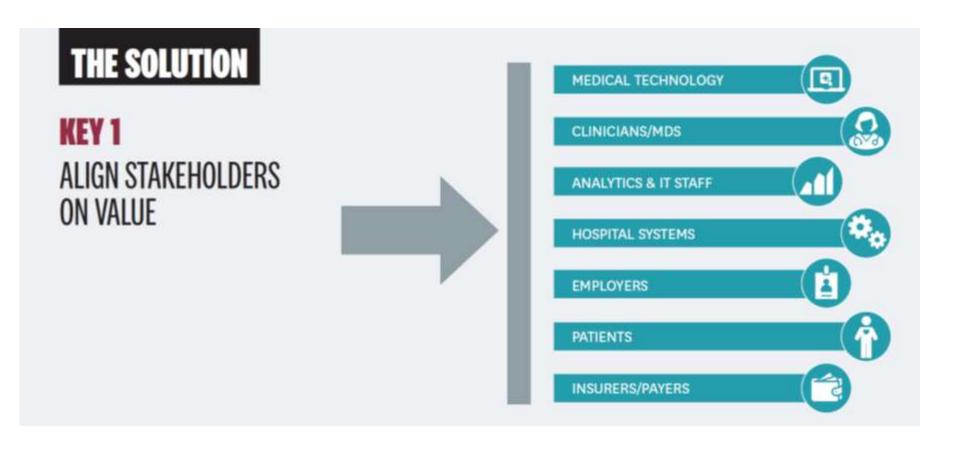
USE GAINED DATA TO EDUCATE PATIENT MANAGING HIS DISEASE

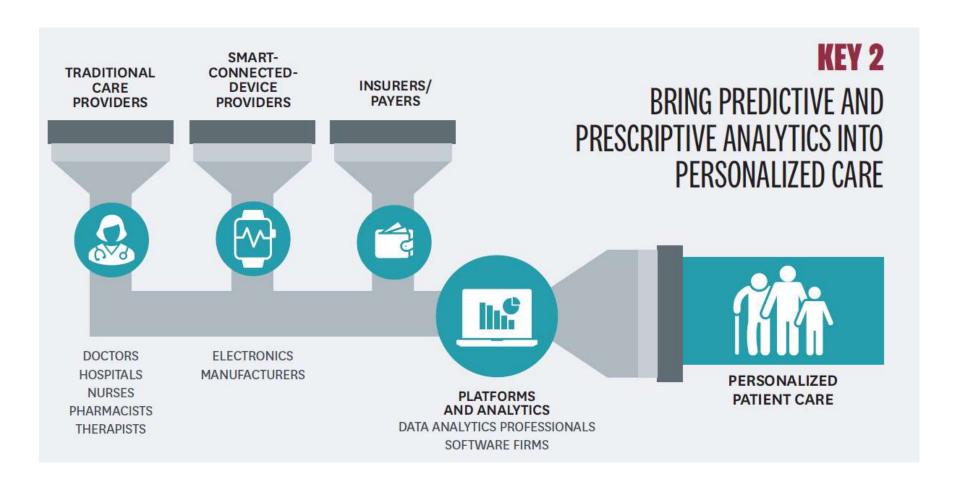
USE DATA TO ASSURE ACCURATE THERAPY INTERVENTION



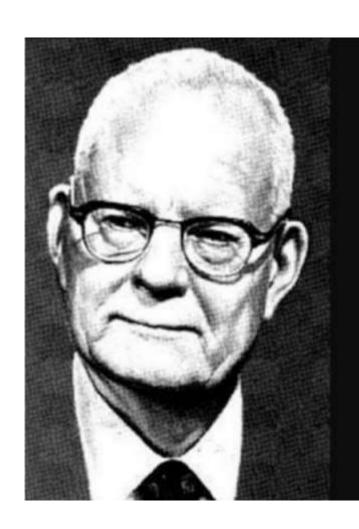












"Without data you're just another person with an opinion."

> W. Edwards Deming, Data Scientist