



Symposium

06/06/2019

Data Committee



Recapitulation of the project

Dashboard analysis blood use & implementation PBM

- Hospitals:
 - Q1-2 Determine KPIs, wireframes and graphs
 - Q1-2 Determine requirements for use (+user case scenario)
 - Q1-2 Develop mock-up (MindBytes)
 - Q2-3 Detailed list of needed data with glossary

Q3 • BeQuinT ?



Q4 Planning Healthdata.be



What is a dashboard ?

(Source: Michiel Dullaert, dePerfecteGrafiek.nl)

An easy to read, often single page, real-time user interface,

showing a graphical presentation of the current status (snapshot) and historical trends of an organization's key performance indicators (KPIs) to **enable** instantaneous and informed decisions to be made at a glance.



Key elements to a good dashboard ?

(Source: Michiel Dullaert, dePerfecteGrafiek.nl)

- Simple, **communicates easily**
- Minimum distractions, **it could cause confusion**
- Supports organized business **with meaning and useful data**
- Applies human visual **to visual presentation of information**



What is a dashboard ?

(Source: Michiel Dullaert, dePerfecteGrafiek.nl)



Development of a dashboard

(Source: Michiel Dullaert, dePerfecteGrafiek.nl)

- Preparation



- Tuning & evaluation



- Design & build





Literature review

1. Which articles can be found that describe **implemented dynamical dashboards** visualizing data about the utilization of blood components and the implementation of PBM?
2. What indicators can be identified (for Belgium) to evaluate the **utilization of blood components**, based upon (inter)national scientific literature?
3. What indicators can be identified (for Belgium) to evaluate the **implementation of PBM**, based upon (inter)national scientific literature?





Literature review: conclusions

Volume Tx

Pre-posttransfusion Hb

Pre-operative anemia

Single-unit Tx (EC)





Literature ⇒ dashboard subjects

Volume Tx
Single-unit Tx (EC)
Pre-posttransfusion Hb
Pre-operative anemia



Volume Tx
Indication & triggers Tx
PBM - perioperative



Dashboard subjects ⇒ goals ???

Volume Tx

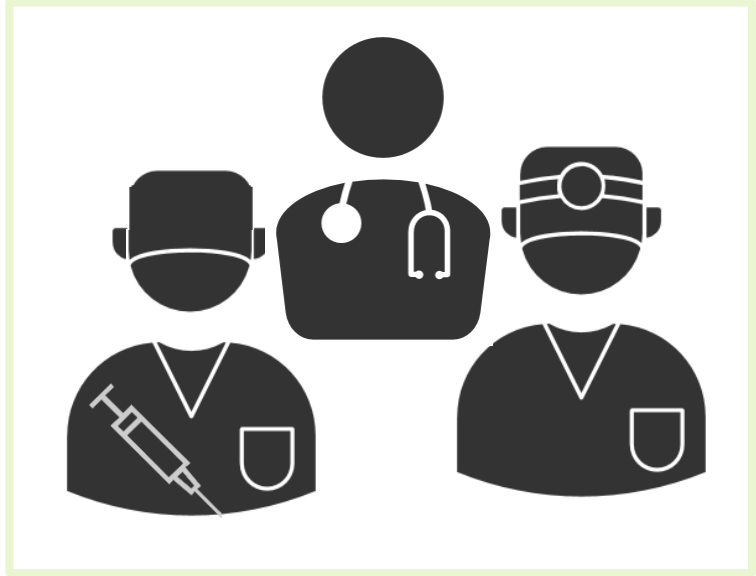
Indication & triggers Tx

PBM - perioperative





Target public dashboard





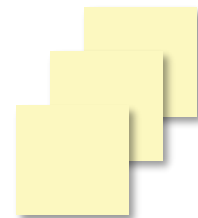
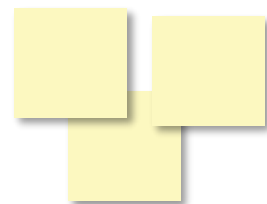
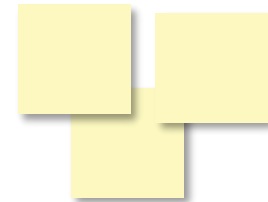
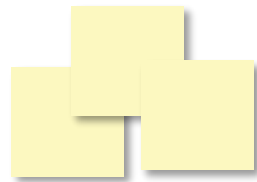
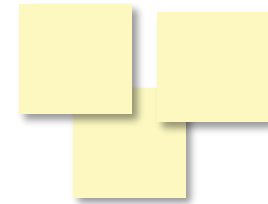
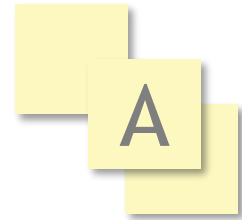
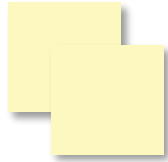
KPI

Must

Could

Would

Not



User case MindBytes (volume)

Filters

- Jaar
- Kwartaal
- Maand
- Dienst (eventueel onder de vorm van boomdiagram: grotere blok hoe meer verbruik)
- Bloedcomponent (Erythrocytenconcentraat (EC), Bloedplaatjesconcentraat (PLC), Plasma)

Indicatoren

- Percentage van opnames met transfusie (ziekenhuisbreed of i.f.v. filters)
- **Aantal toegediende EC per 1000 opnames** (ziekenhuisbreed of i.f.v. filters)
- Percentage patiënten met transfusie
- Kostprijs toegediende bloedcomponenten (= gefactureerd aan het RIZIV?)
- % single unit transfusie EC



User case MindBytes

Evolutie over de tijd

X-as: per maand (detail afhankelijk van de filters, indien 1 maand geselecteerd kan dit ook per dag zijn)

Y-as:

- Aantal toegediende bloedcomponenten (eventueel per soort bloedcomponent)
- Aantal opnames met transfusie (eventueel per soort bloedcomponent)
- Aantal patiënten met transfusie (eventueel per soort bloedcomponent)
- Aantal voorschreven EC, aantal gekruiste EC, aantal EC met type-and-screen, aantal toegediende EC [= intermediate/advanced]

Benchmarking diensten

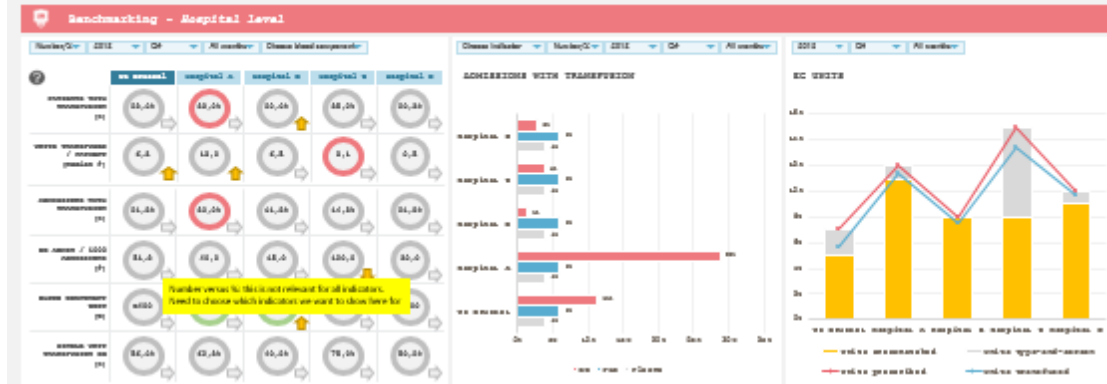
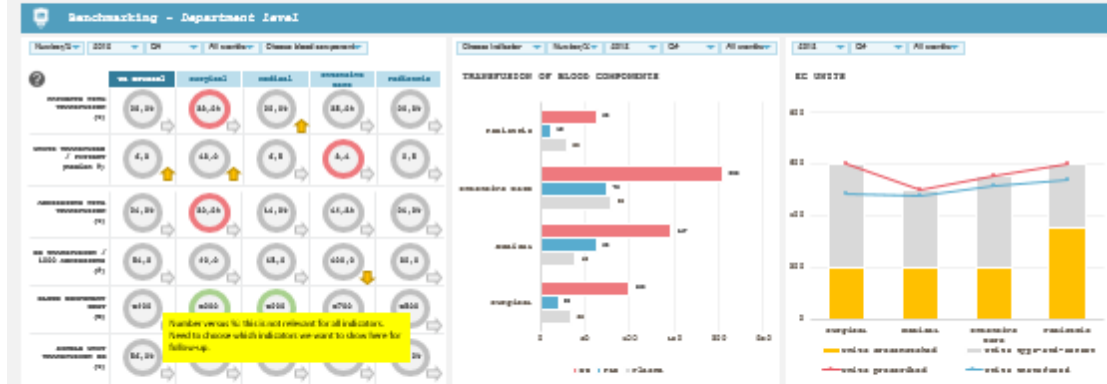
Vergelijking van absolute aantallen (ev. ook percentages: bv. % opnames of patiënten met transfusie)

Tabel ???

- Aantal toegediende bloedcomponenten (eventueel per soort bloedcomponent)
- Aantal opnames met transfusie



MindBytes mock-up



Last meeting

Indicators:

- Detail needed
 - a: hospital-wide, department, care unit and/or prescriber (= benchmarking)
 - b: per type of blood component
- Comparator/target
- Priority (Must, could, would, Not)
- Relations with other indicators
- Influencing measurable factors (patient pathology, number of hospital beds,...)

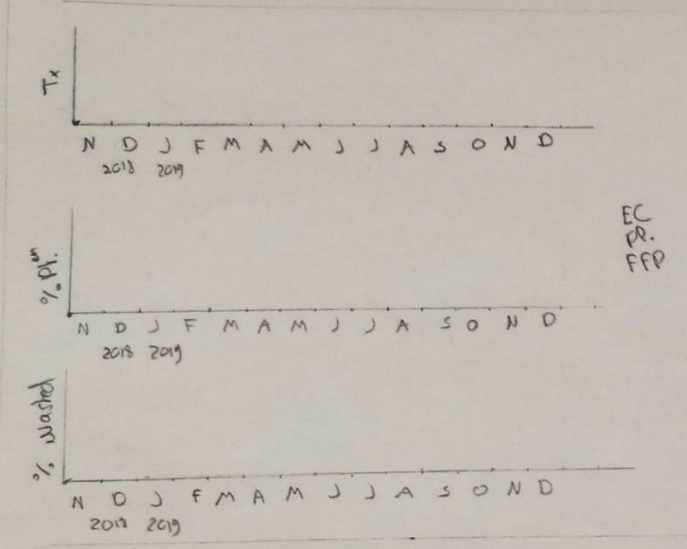


What's next?

Volume

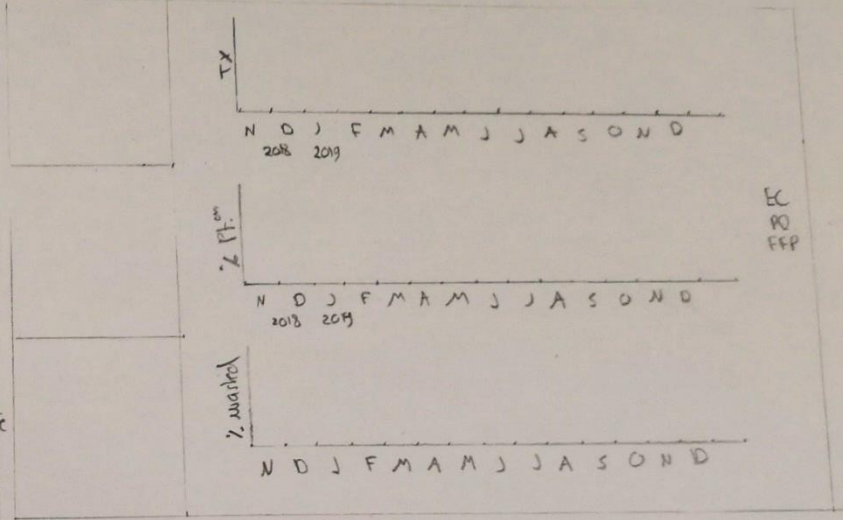
Jaar Dienst Bloedcomp.

ZH - breed



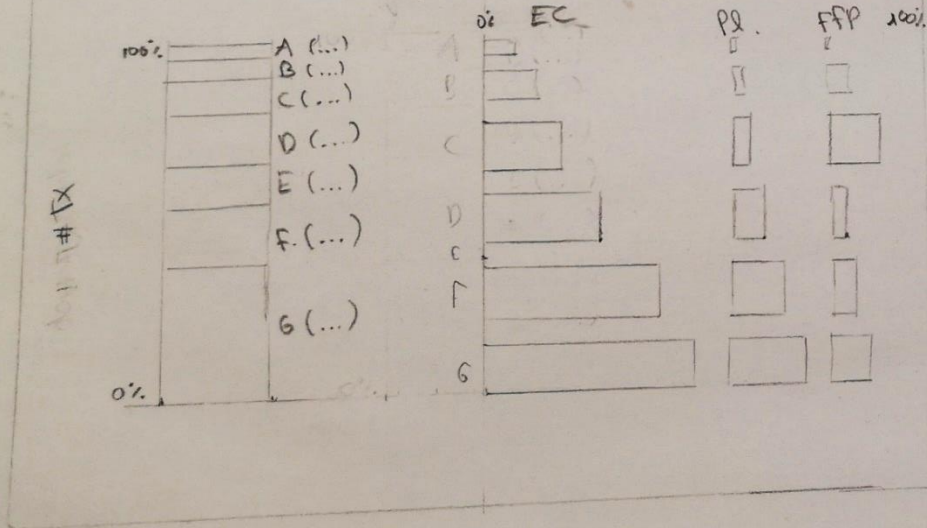
EC
Pr.
FFP

Dienst



EC
Pr.
FFP

Departementen



Externe benchmarking

