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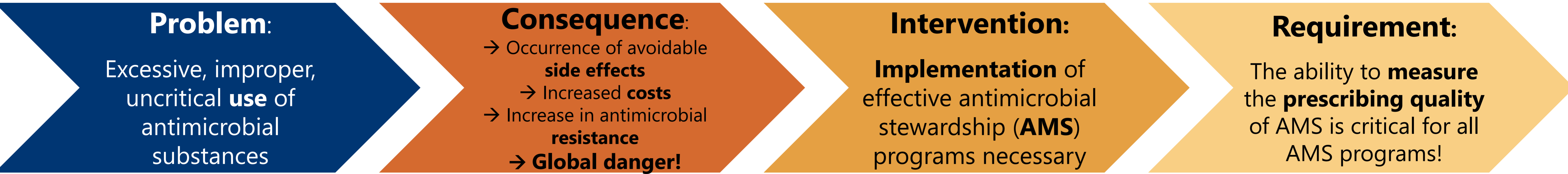
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„What gets measured, gets managed“: ^[1] Analysis of Process-Quality-Indicators for Antimicrobial Stewardship

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Why is this relevant?



Background:

- Quality indicators (QI) can be used to **measure** the **quality** of antimicrobial treatments
- The **suitability** of a QI must be proven in **practical tests** in the respective setting before the QI can be used
- **Aim of study:** Validation of **17** selected process **QIs** for prescribing antimicrobial agents at the University Hospital of Freiburg (UKF)

Methods:

Study setting:

- Number of cases:** 426 patients at the UKF
- Inclusion of all patients > **18 years** old who are taking at least **1 antiinfective** on the day of the survey → Data collection using a point-prevalence-study (**PPS**)

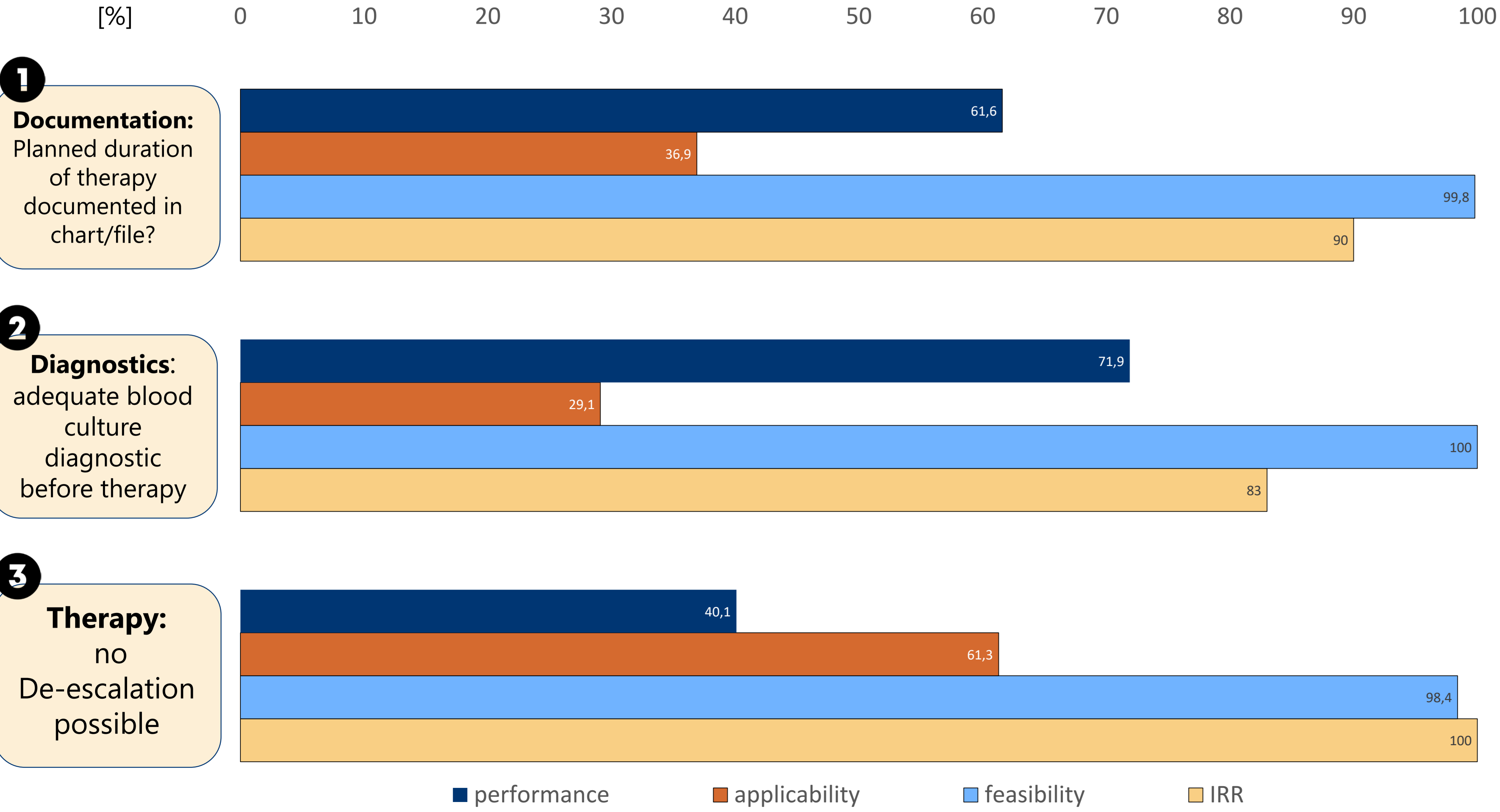
Process-Quality-Indicators (QI):

- Help to demonstrate the **effectiveness** of the interventions
- 17** evidence-based QIs → **3 categories:** Therapy **1**, Diagnostics **2**, Documentation **3**

Investigation of the following clinimetric properties:

- Performance** (≤85%): % of **adherence** to an indicator → enough room for improvement → **Aim:** QIs ≥85%
- Applicability** (≥5%): **Proportion of all cases** examined to which the indicator could be **applied**
- Feasibility** (≥75%): % of **available/valid** values per indicator
- Inter-Rater Reliability** (>0,6): Evaluation of the **reproducibility** of the results between different observers

Results: (3 selected representative QIs)



Take home message:

„The goal is to turn data into information and information into insight“ ^[2]

In this case:

- Validation of process quality indicators for **routine use** at the UKF
- Show in which areas there is great **potential** for **improvement**
- Applicability of the QIs for UKF **confirmed** → QIs may also be usable for other hospitals

[1] Peter Drucker
[2] Carly Fiorina; „Oracle Open World speech“