



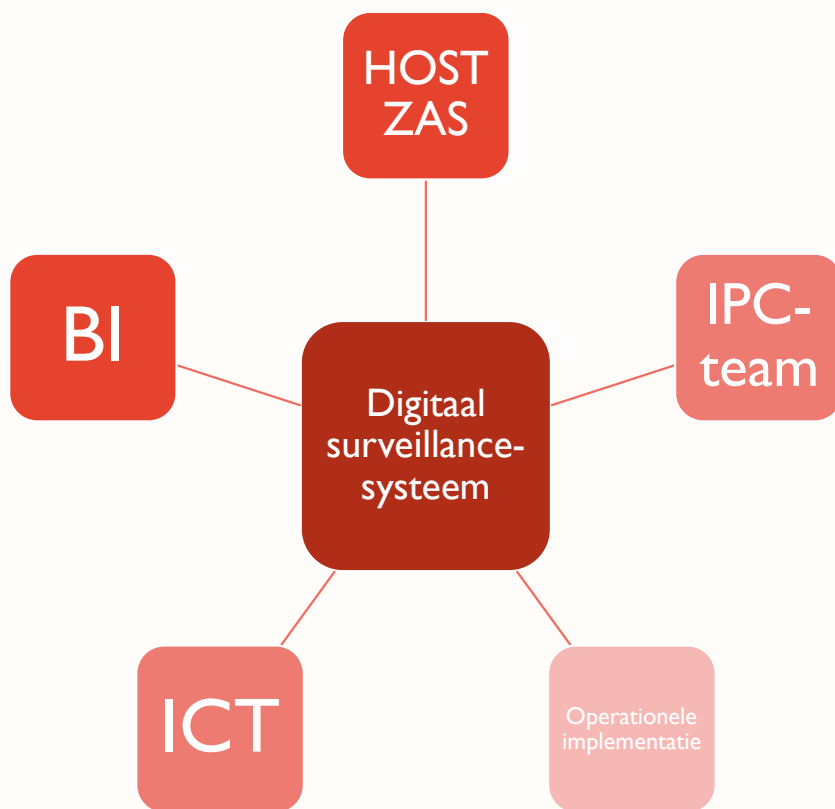
Surveillance of Antimicrobial Consumption

Sam Van Goethem – HOST arts

17 november 2023

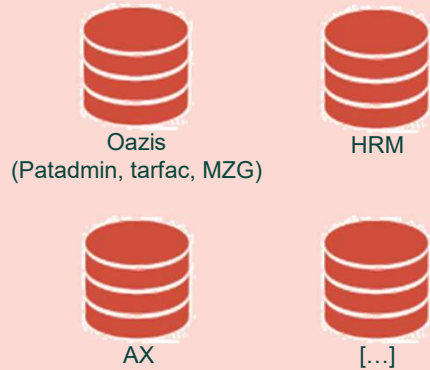
ZIEKENHUISaan
deSTROOM

Which players are involved?

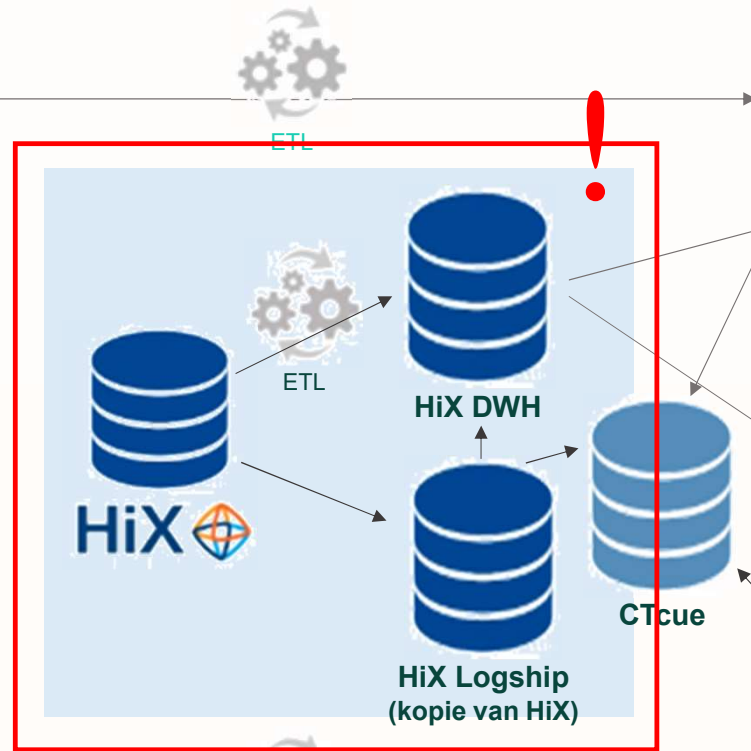
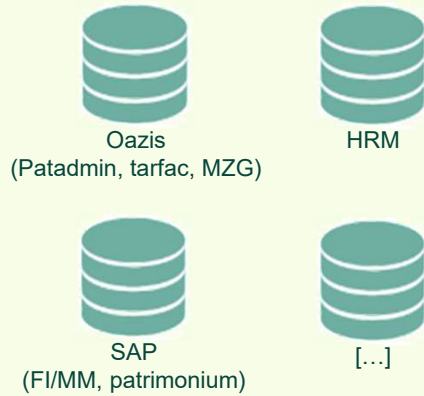


ZAS BI-environment

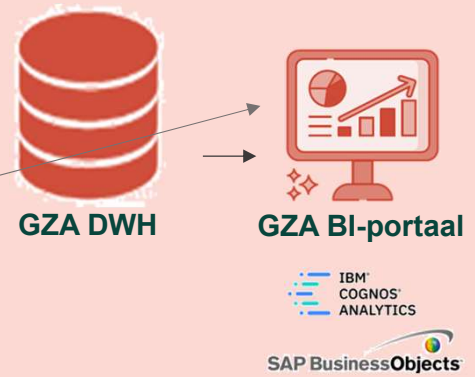
GZA bronsystemen



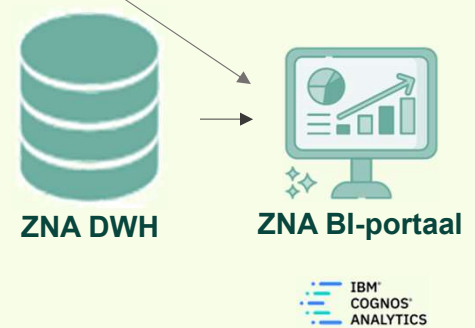
ZNA bronsystemen



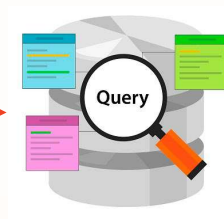
GZA DWH



ZNA DWH



HOST ZNA-GZA



Beleidsinformatica

For every ward / campus
DDD (/100 patient days)
For every antibiotic
seperated oral – iv
Total amount of patient days





Difficult to start using R

Not supported by ICT/BI



Experienced users in team

Open source

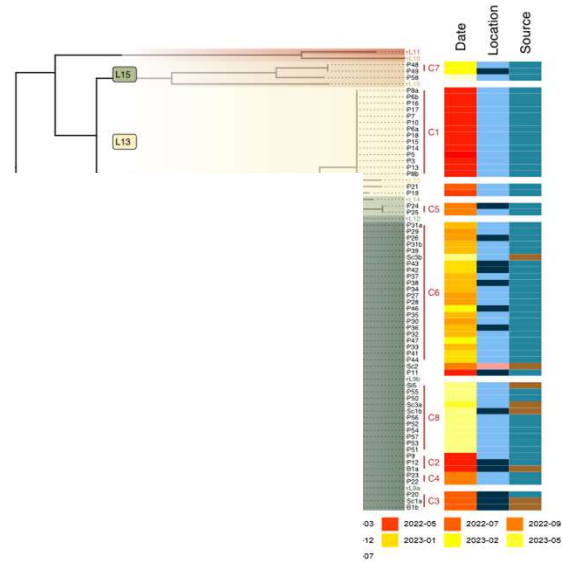
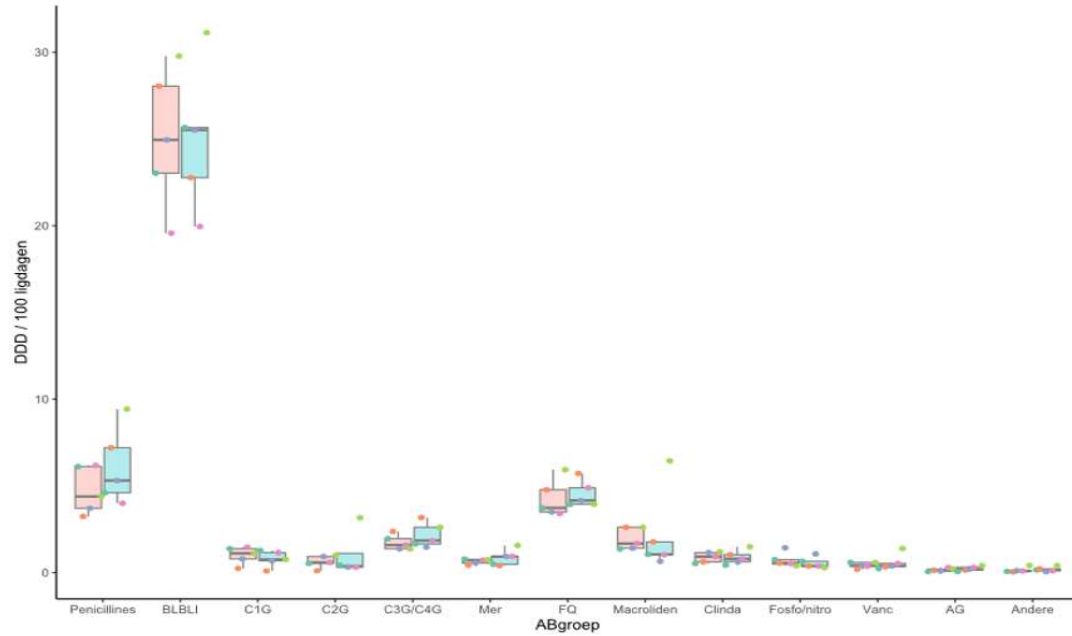
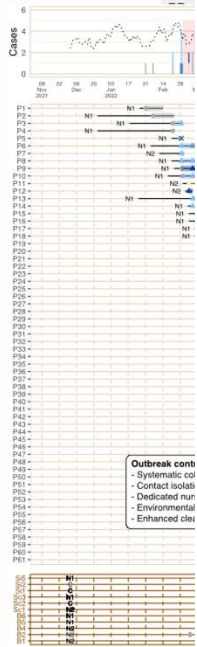
Automate analysis!



```

67 Artsen <- DataV[!duplicated(DataV[c("voorschrijver ID", "voorschrijver naam")]),
68 Artsen <- Artsen[,c("voorschrijver ID", "voorschrijver naam")]
69 Afdelingen <- Total[,c(4,7)]
70 colnames(Afdelingen) <- c("Campus", "Afdeling")
71
72
73
74
75
76

```



```

114 IPALL <- rbind(IPFQ, IPCL)
115 IPALLTA <- aggregate(IPALL$DDDT, by = list(IPALL$Afdeling), FUN = sum)
116 colnames(IPALLTA) <- c("Afdeling", "DDDT")
117 TPALLTA <- aggregate(TPALL$DDDT, by = list(TPALL$Afdeling), FUN = sum)

```



phind

phind

how can i automatically run an R script from my windows terminal on a monthly basis

Pair Programmer

GPT-4

Alternatively, you can use the `taskscheduleR` package in R to schedule your R scripts. This package provides functions to create, list, and delete tasks in the Windows Task Scheduler. Here's an example of how to use it:

```
# Install the package
install.packages("taskscheduleR")

# Load the package
library(taskscheduleR)

# Create a task
taskscheduleR_create(taskname = "my_task",
  rscript = "C:/path/to/your/script.R",
  schedule = "MONTHLY",
  starttime = "00:00")
```

This will create a task that runs your R script once a month at midnight r-bloggers.com.

ANSWER | PHIND V7 MODEL

To automatically run an R script from your Windows terminal on a monthly basis, you can use the Windows Task Scheduler. Here's a step-by-step guide on how to do this:

1. Open the Task Scheduler: You can do this by searching for it in the Start Menu of your computer. It should be found under Windows Administrative Tools seancarney.ca.
2. Create a new basic task: Once the Task Scheduler opens, click on "Create basic task..." from the Actions box on the right side of the window seancarney.ca.
3. Name and describe your new task: Provide a clear name and a brief description of what the task does. This is important for distinguishing between different automated tasks seancarney.ca.
4. Choose how often your task should run: In this case, you would select "Monthly" seancarney.ca.
5. Specify when your task should run: Decide on the exact timing of when the task will occur. The Task Scheduler provides lots of options and flexibility so you can create tasks that operate on complex schedules seancarney.ca.
6. Specify which program to run: Here, you'll need to tell the Task Scheduler which program you want to run. Assuming that you've added R to your path, you will type in `Rscript.exe` in the Program/script box, and you'll type in the full path to your R script in the Add arguments (optional) box. Remember that `Rscript.exe` is a command-line program and, as such, it has trouble if the path to your R script contains spaces. If the path to your R script has spaces in it, wrap the entire path in double quotes seancarney.ca.

Here's an example of how the command might look:

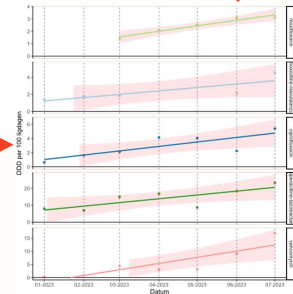
```
"C:\Program Files\R\R-3.0.2\bin\x64\Rscript.exe" "C:\path\to\your\script.R"
```

7. Finish the task creation: Click "Finish" to create the task. The task will now run your R script on the schedule you specified stackoverflow.com.



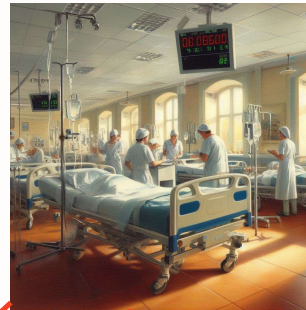
HOST ZNA-GZA

Beleidsinformatica



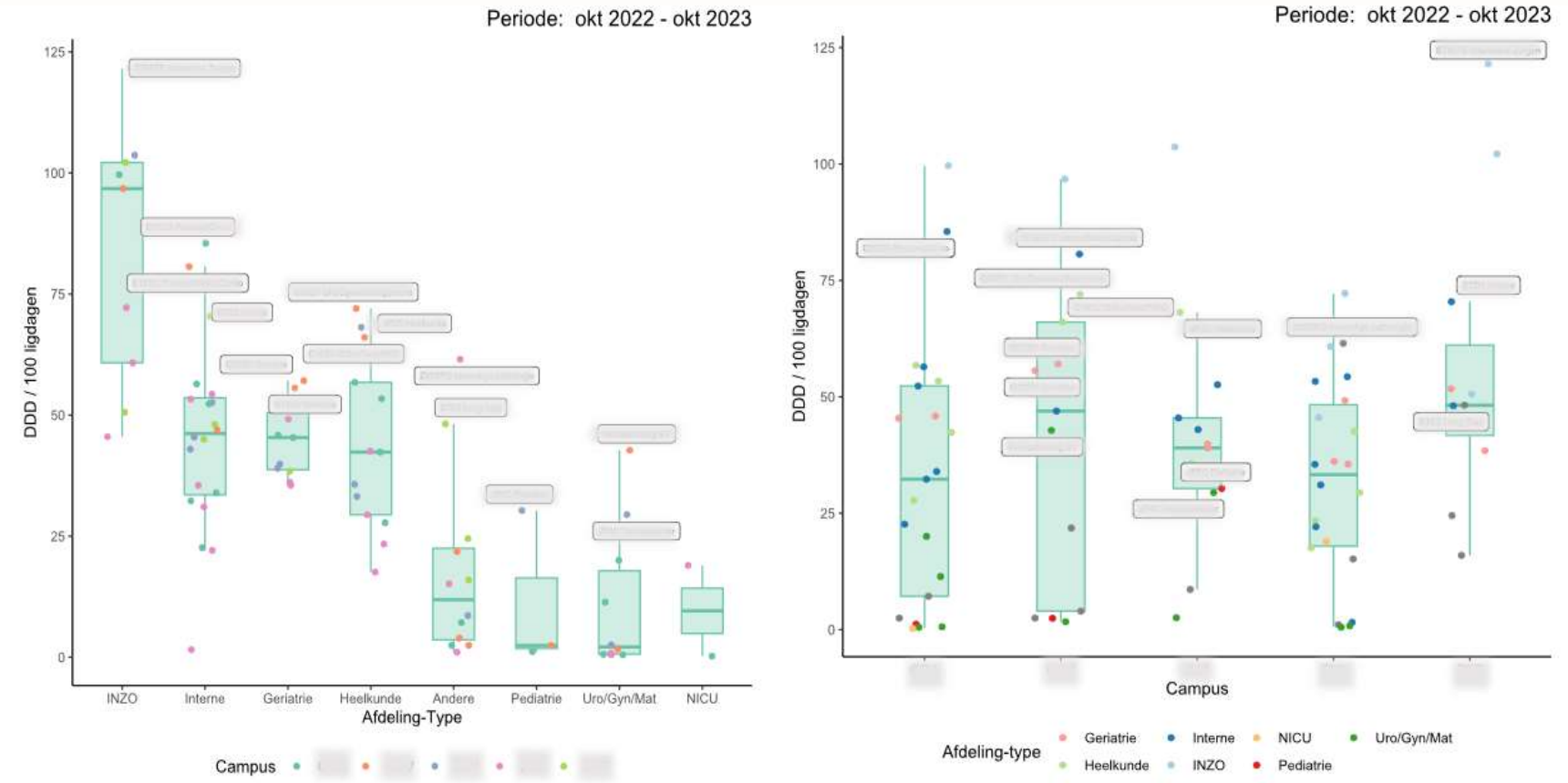
ABTBG

Validatie



Results

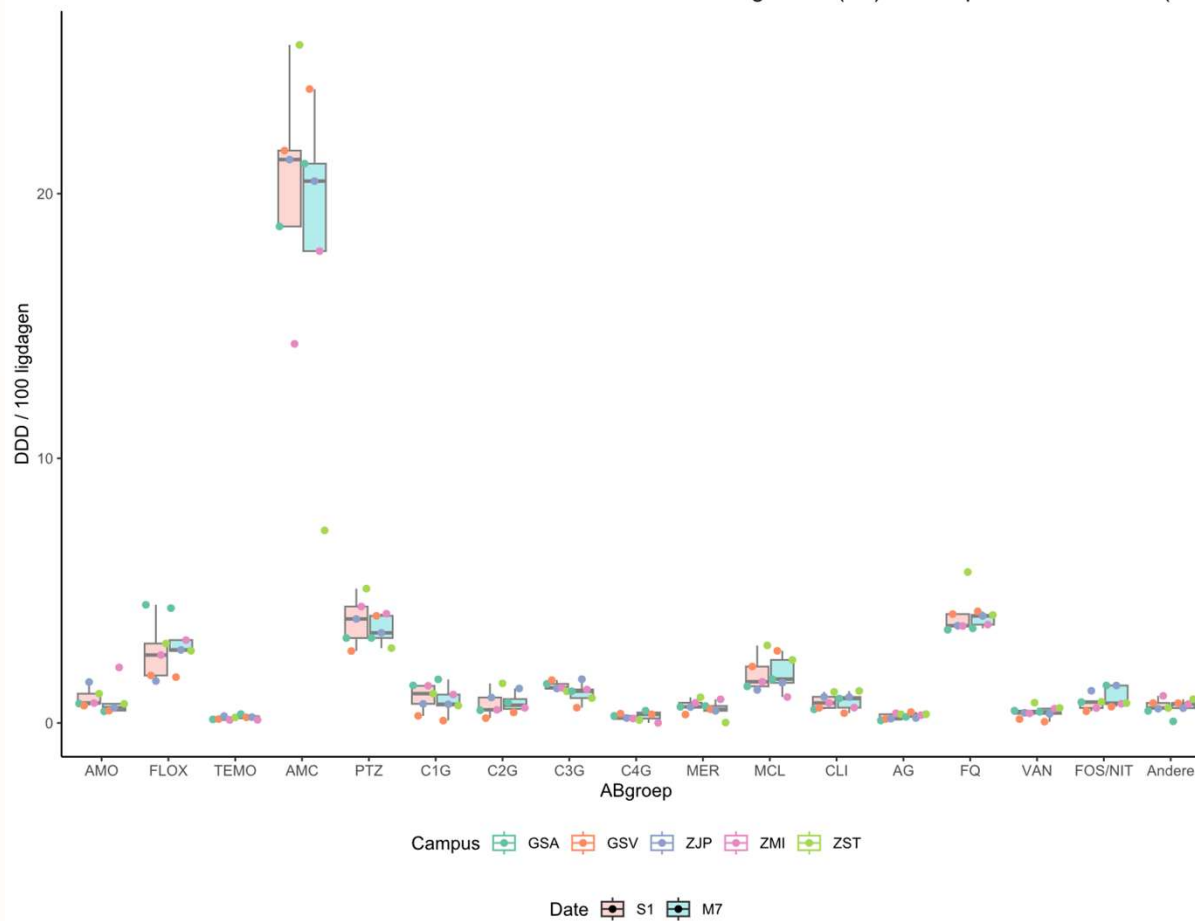
Total consumption comparison (campus – ward - ...)



Results

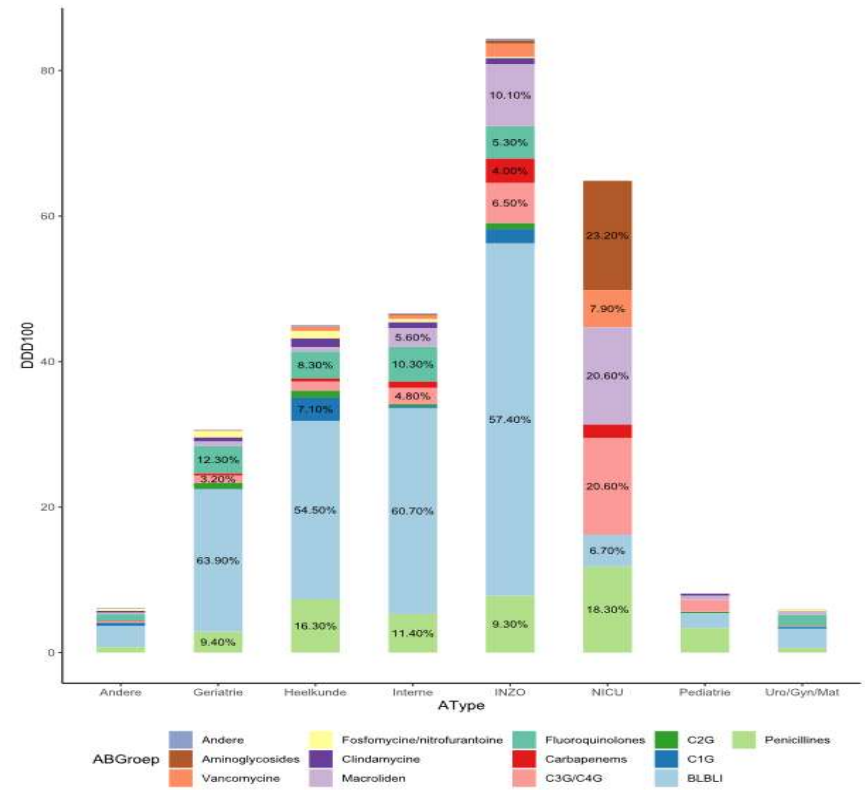
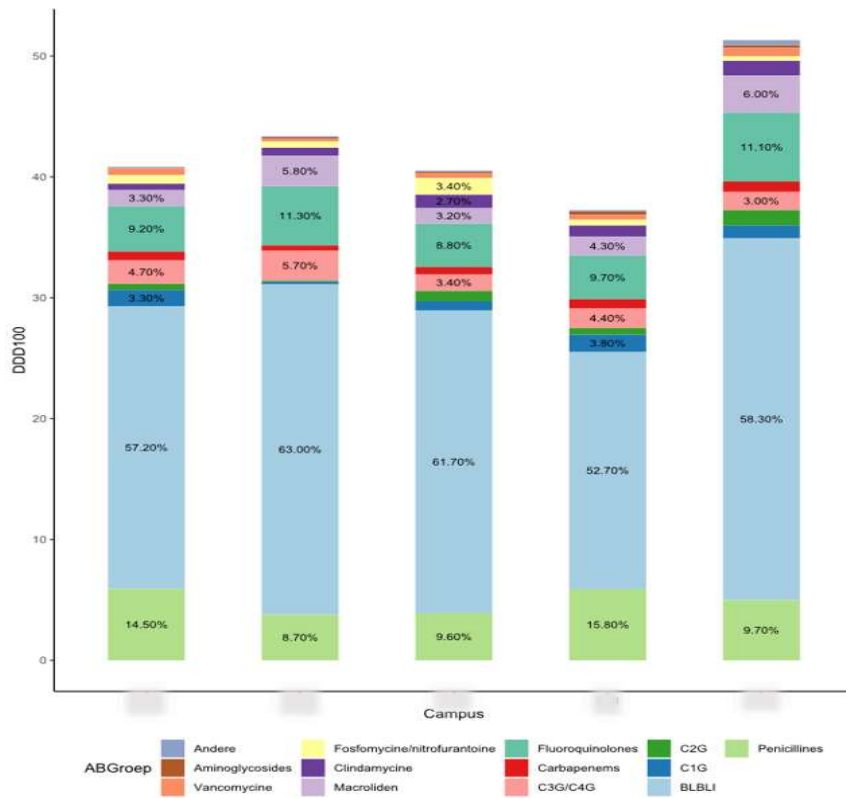
Difference: last year vs last 2 months

Periode: okt 2022 - aug 2023 (S1) EN sep 2023 - okt 2023 (M7)



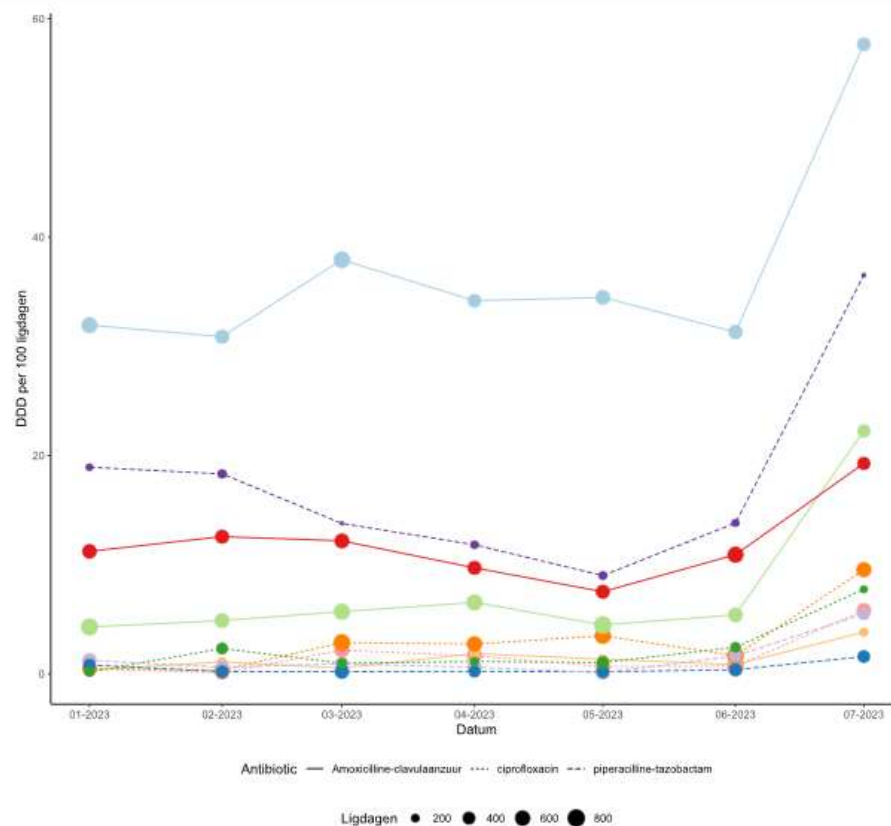
Results

Consumption – distribution (campus – ward - ...)



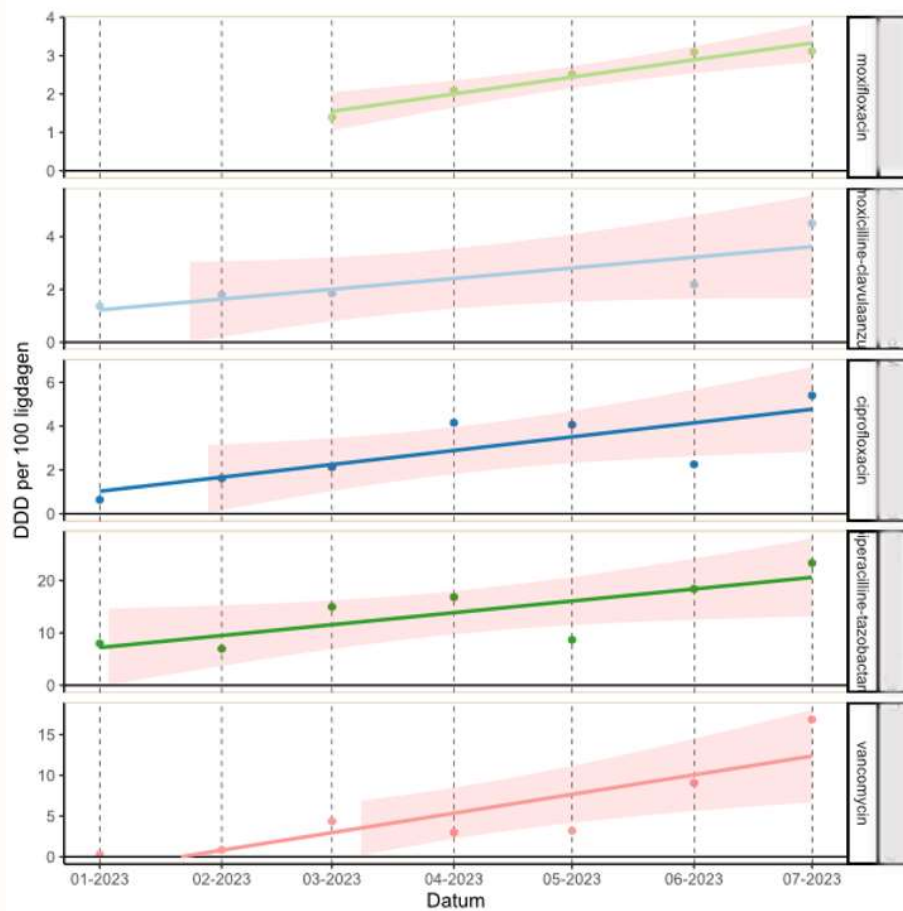
Results

Panic Values



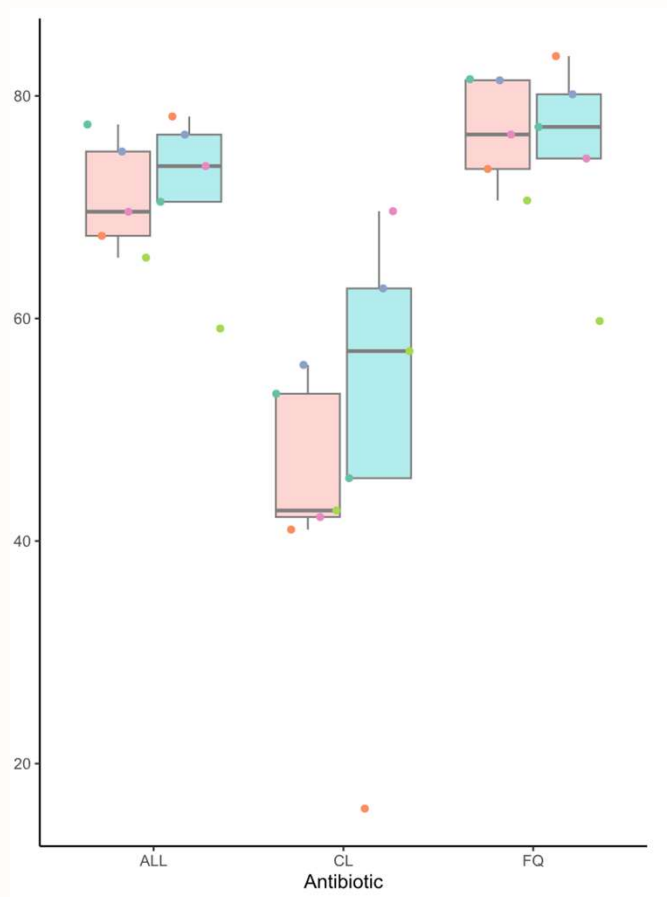
Results

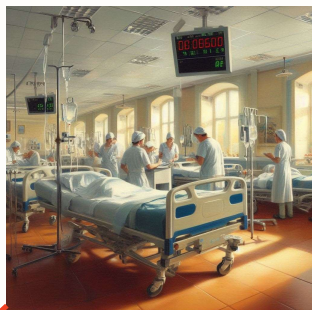
Upward trends in AB consumption (campus / ward / total)



Results

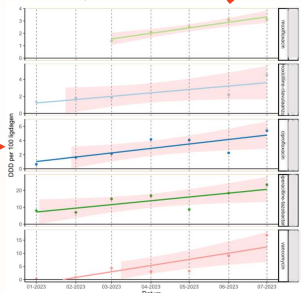
IV-PO switch (campus – ward – physician)





ABTBG

HOST ZNA-GZA

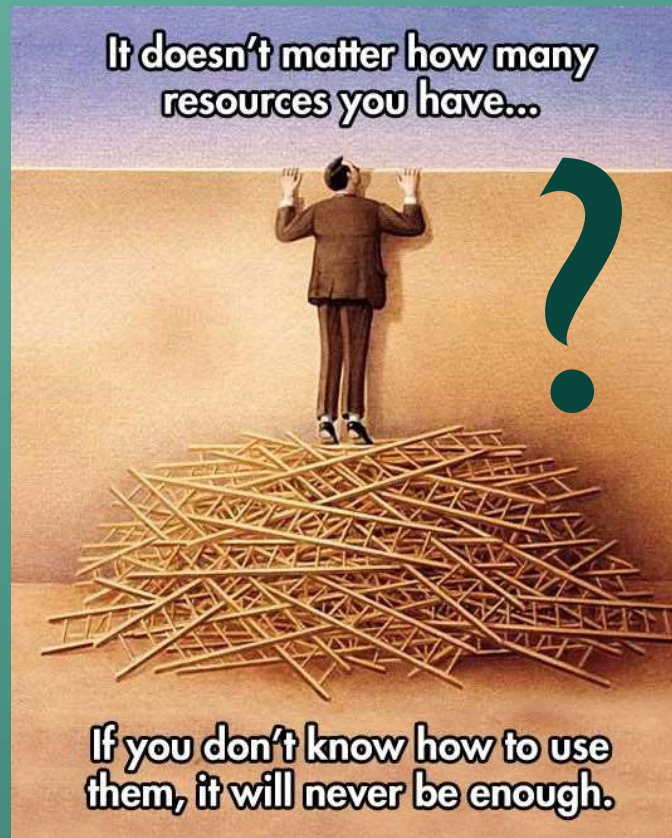


Validatie

Beleidsinformatica



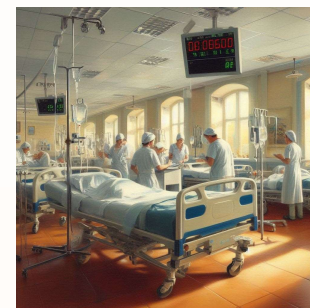
Implementation for 2024



Implementation

IV-PO switch

voorschrijver	DDDT	DDDO	IPR	Antibiotic
A	219.33333	188.50	85.94225	ALL
B	175.00000	170.50	97.42857	ALL
C	110.41667	88.25	79.92453	ALL
A	189.75000	160.25	84.45323	FQ
B	155.25000	153.75	99.03382	FQ
C	84.00000	75.00	89.28571	FQ
A	29.58333	28.25	95.49296	CL
B	19.75000	16.75	84.81013	CL
C	26.41667	13.25	50.15773	CL



Periodical Consumption report

Week – month – quarter – semi-annual – yearly → ?





Questions/suggestions popping up later?
✉ HOST@GZA-ZNA.be





Ziekenhuis aan de Stroom
[ZAS] is het netwerk van
ZNA en GZA Ziekenhuizen

