

DADA app: AUTOMATED ANTIBIOTIC DE-ESCALATION. USEFULNESS AND RESULTS.

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BACKGROUND AND IMPORTANCE

Multiresistant microorganism are a huge global problem of Public Health. The main strategy to face this threat is improve the use of antibiotics. **DADA app** born with this purpose. This app let Pharmacy Department manage a sizable number of inpatients using the time in analyze the results obtained by DADA. In other words, we have **improved the efficiency** in our time.

THE APP AND METHODS

-In **July 2022**, Pharmacy Department designed an **app easy-to-use** and comfortable in order to detect active antibiotic treatments that might be de-escalated.

-Fedded with **data of antibiotic treatments and microbiological cultures**. DADA reads and understands every gap of information, and finally search results between the active treatments comparing it with theoretical de-escalation sequencies, designed by Infectious Diseases Comission in our hospital and based in local epideomilogical guidelines.

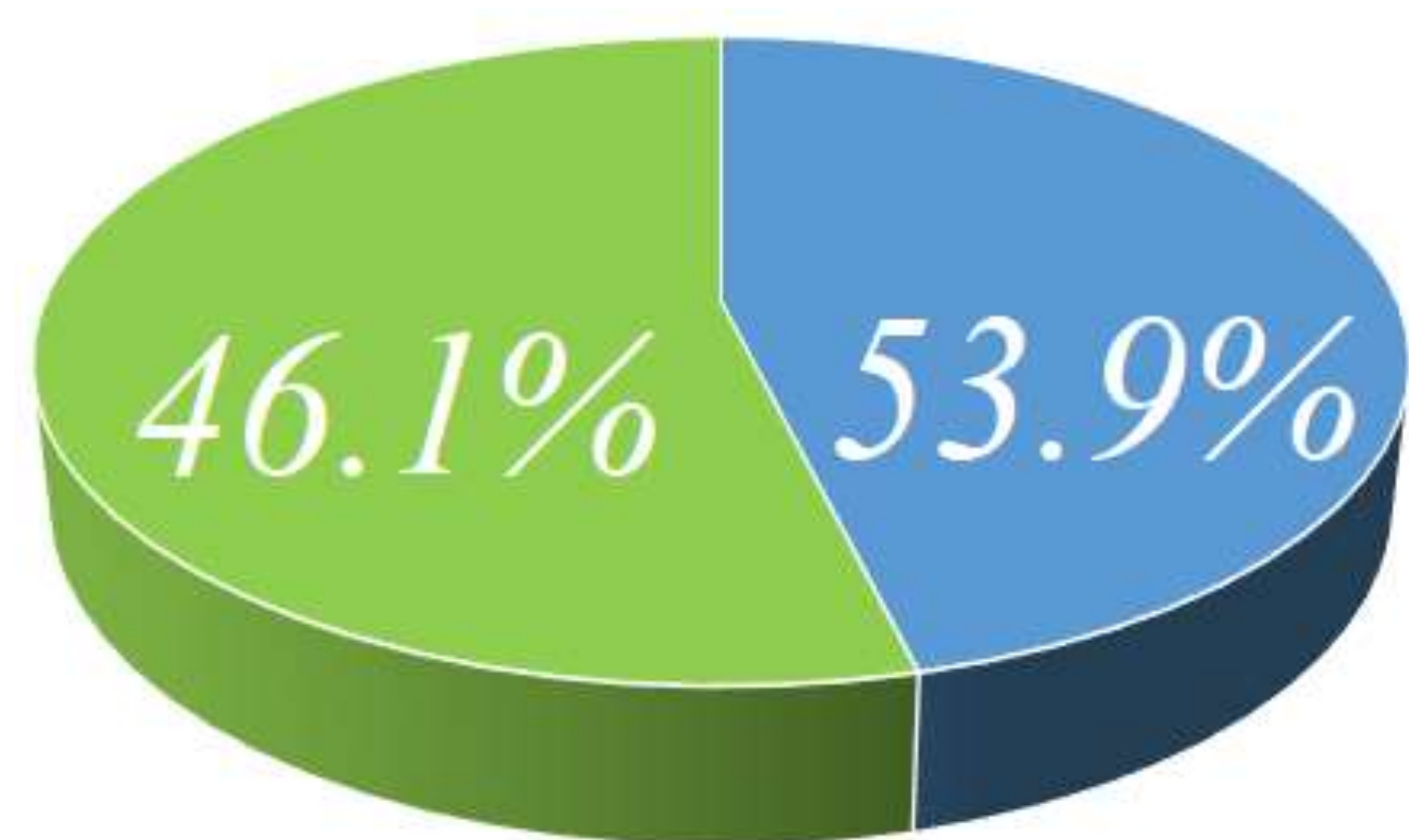
-DADA works with **automatic decission algorithms**. In addition, DADA also alerts of active treatments for resistent microorganism to that antibiotic.

-**Every Monday and Thursday**, the app is started up. The **results are analyzed** carefully by a pharmacist and afterwards the conclusions are transmited to an Infectious Diseases Medician, who decides if modify the treatment.

RESULTS

Between August 2022 and August 2023 USING DADA APP

39 PROPOSALS OF DE-ESCALATION



ACCEPTED BY MEDICIANS 18/39

NOT ACCEPTED BY
MEDICIANS 21/39

2 PROPOSALS OF CHANGE FOR RESISTANCES TO
ANTIBIOTICS. **BOTH ACCEPTED BY MEDICIANS.**

**THIS APP HAS GOT A
BIGGER EFFICIENCY OF
TIME OF CLINICAL
TEAM**

CONCLUSION AND RELEVANCE

The main outcome is **improve the confidence of Medicians** in this tool, in order to increase the percentage of acceptance in the proposals. Furthermore, the app can be more complete and interpretate data such as **analytics parameters**. In the future, other hospitals might use this tool to analyze their patients or in **outpatients treatments**.

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