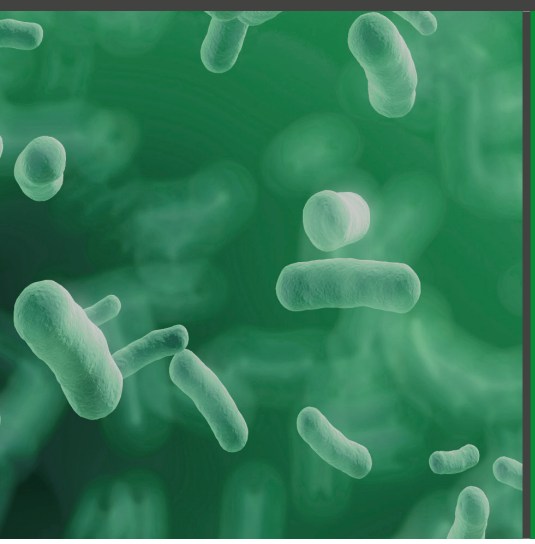
MEDEXTER Healthcare



MOMO

Microbiology Analytics and Clinical Tool for Reporting Pathogens and Antimicrobial Resistances

MOMO (Monitoring of Microorganisms) is a microbiology analytics tool with strong clinical features. MOMO's QuickScan functionality gives immediate overviews including all or only positive, approved results for one patient or department. It serves as a fast clinical tool for the physician and shows up-to-date results.

As microbiology analytics software, MOMO provides all the information on pathogen occurrence, frequency distribution, resistance situation, and resistance change in one place. 58 different parameters allow maximum flexibility for clinical, QM, epidemiology, and research queries. User-defined templates facilitate reporting and benchmarking.

MOMO can work with all lab results available in modern microbiological laboratories: bacteria and fungi including AMR profiles, PCR results, serology results, toxins, microscopy results, miscellaneous remarks, and many more.

FAST CLINICAL TOOL *Be aware of all pathogens and resistances present in your ward. Have immediate overview of all or only positive, approved results for one patient or department. Access this information at the bedside or from your computer via any browser. Create and share weekly reports.*

AMR SITUATION & HISTORY *Graphically display a pathogen's AMR pattern, view the change of resistance over time, compare the effectiveness of several antimicrobial agents (also over time), and answer your specific questions by customizing your AMR reports with 58 query parameters.*

INFECTION CONTROL *Up-to-date information on all pathogens and resistances. Access a patient's or the whole department's recent resistance history. Monitor trends and developments and avoid epidemics in your hospital.*

REPORTS & BENCHMARKING *Use MOMO for your mandatory AMR reports, internal and QM reports to your hospital's administration, or in medical research projects. Images and .csv files can be exported to Excel or similar programs, allowing you to create diagrams and statistics for your specific purposes.*

EMR & LABORATORY INTEGRATION *Doctors can access single patient or department overviews from within the EMR with just one click. Laboratories can include MOMO's graphics and analyses in their outgoing reports. Our technical staff will help connect MOMO to those systems.*

MOMO

ALL THE INFORMATION IN ONE PLACE

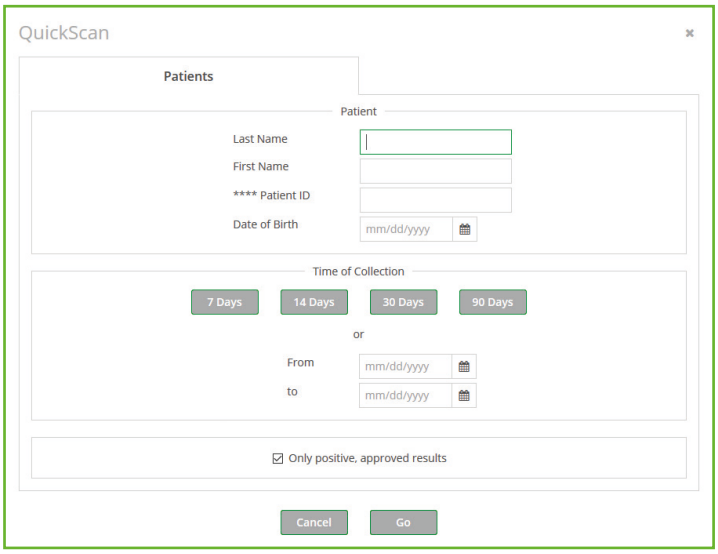
QuickScan
ONE-CLICK OVERVIEW

FlexScan
58 QUERY PARAMETERS

Spectrum
FREQUENCY DISTRIBUTION

AMR
RESISTANCE SITUATION

AMR History
RESISTANCE OVER TIME



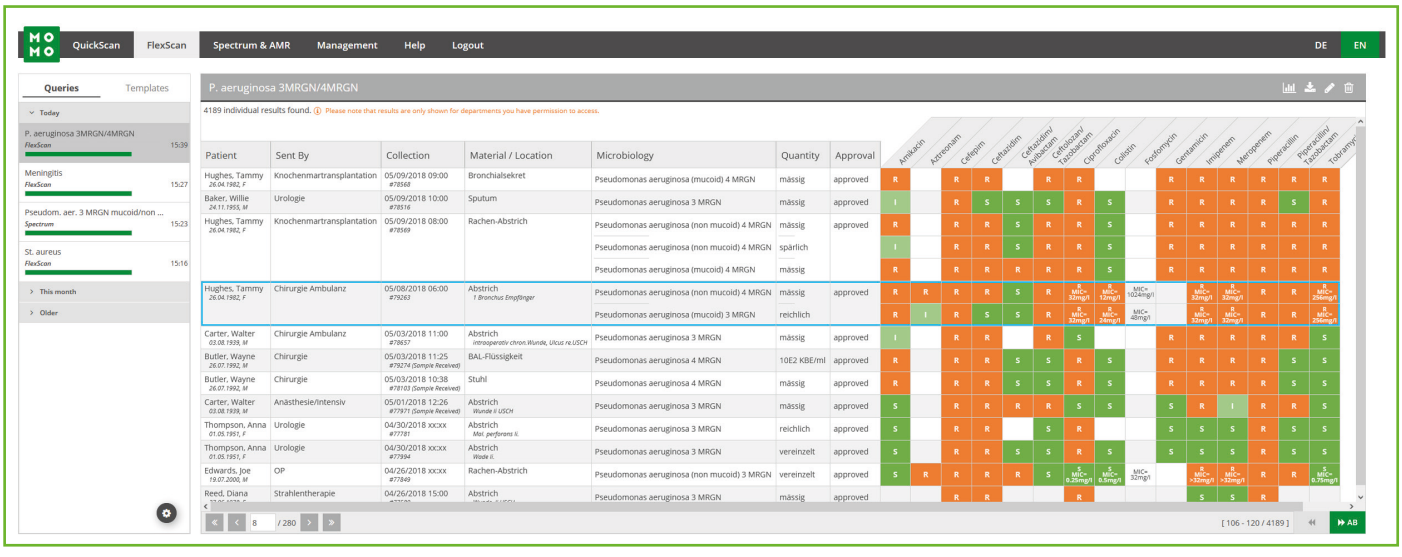
QUICKSCAN *One-Click Overview*

Get single patient or department overviews with just one click using this fast clinical tool. Choose only positive, approved or all results.

FLEXSCAN *58 Query Parameters*

Use these highly customizable queries with the full microbiological data available. Answer clinical, epidemiological, research, and QM questions with our 58 query parameters.

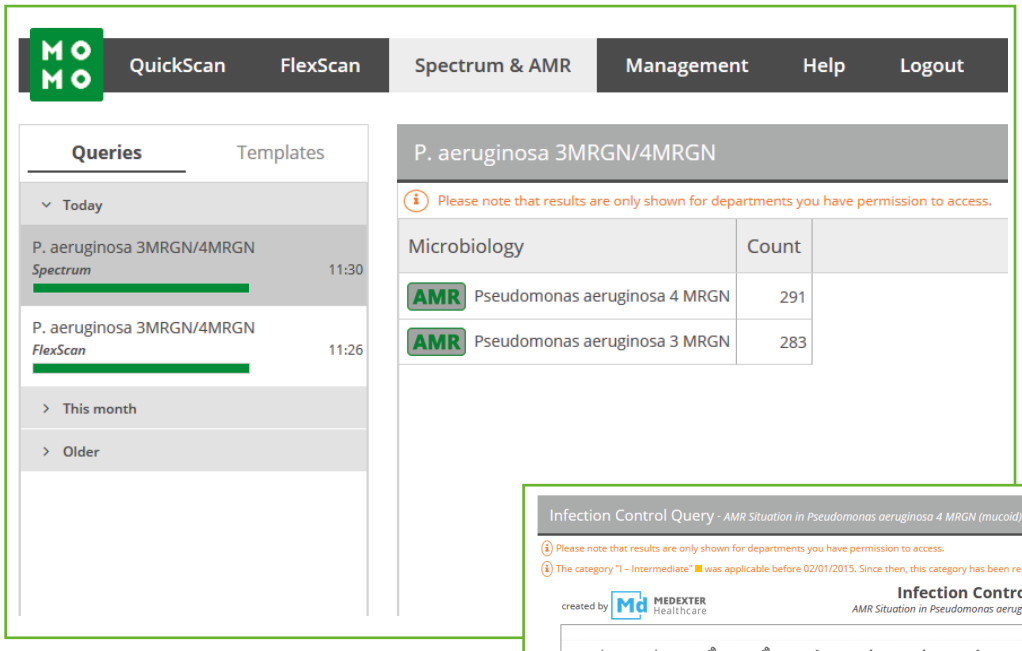
MOMO's optimized filtering module provides various options to remove duplicate as well as consecutive isolates. Adjust these methods as you wish (optional).



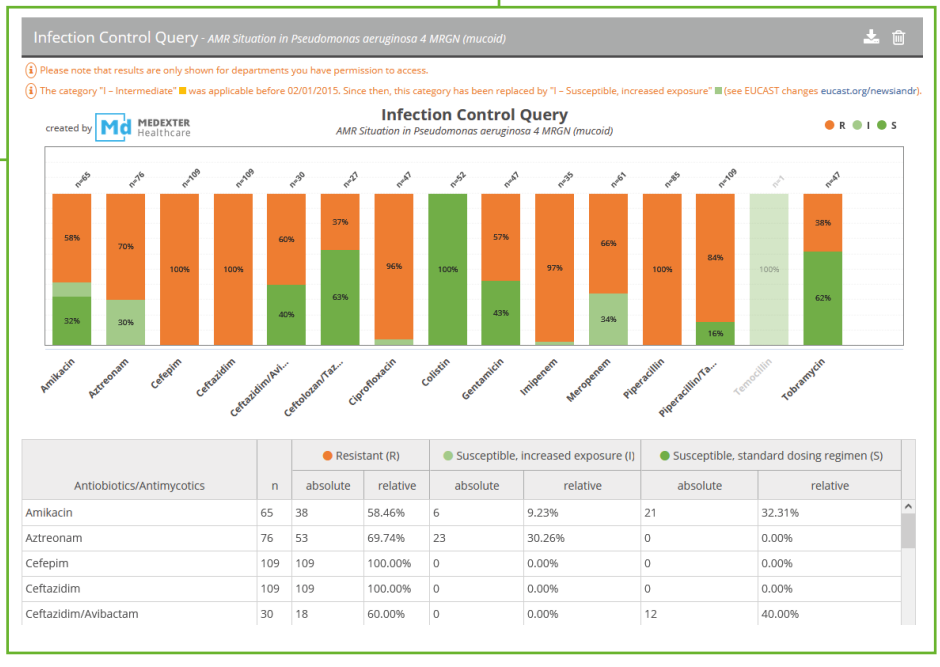
FlexScan Report including AMR Profiles (with anonymized test data)

SPECTRUM *Frequency Distribution*

Based on a FlexScan or QuickScan result, Spectrum analyzes these data and provides frequency distributions for each or a combination of the selected parameters.



Get the complete AMR situation for each pathogen by clicking **AMR** *in your Spectrum result*



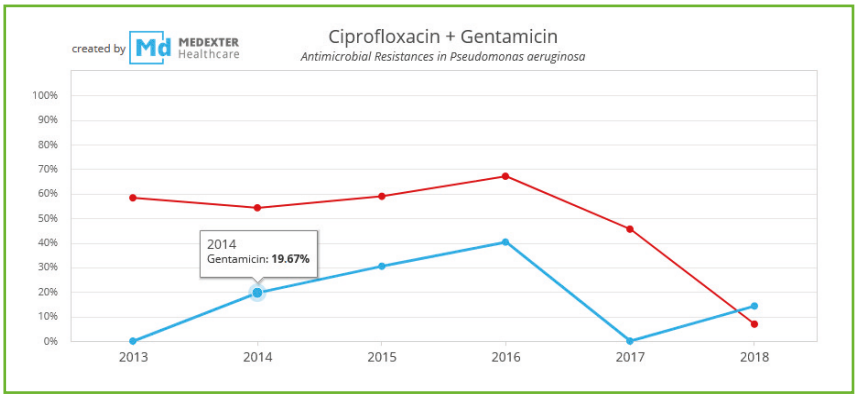
Graphically displayed antimicrobial resistance pattern for each pathogen

AMR *Resistance Situation*

By clicking "AMR" in your Spectrum results, you can access and graphically display the complete antimicrobial resistance situation for every found pathogen. The antimicrobial resistance information is based on the S-I-R model and coded in three colors. Differences in the number of tests for individual antimicrobial agents are explicitly indicated. Click on any antibiotic or antimycotic to view its resistance over time.

AMR HISTORY *Resistance Over Time*

Find out how the resistance of a pathogen to an antibiotic/antimycotic has changed over time. Graphically display several agents to compare their effectiveness:



KEY BENEFITS

- Customizable Queries
- Frequencies and Trends
- User-defined Templates
- Image and .csv exports
- High Query Performance
- Saves Time and Costs
- Available in English + German

THESAURUS MANAGEMENT

MOMO allows data import from one or more microbiological data sources (current and/or historical data). Thesauri can be either provided by the hospital or by Medexter. MOMO requires thesauri for ***MICROBIOLOGY***, ***SAMPLE MATERIAL***, ***ANTIBIOTICS/ANTIMYCOTICS***, and ***DEPARTMENTS***.

Our thesaurus management is part of MOMO's management module and serves as an excellent tool (a) to build new thesauri or (b) for thesaurus maintenance on a regular basis. Both can be done by the customer or provided as a service by Medexter (please specify and request).

BENCHMARKING SUPPORT

You want to participate in national (e.g., the yearly official Austrian Resistance Report *AURES*) or international (e.g., The European Surveillance System *EARS-Net*) benchmarking networks? Discuss with us the regular, time- and cost-saving electronic data export to the requesting national reference centers and to ECDC, Stockholm.

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SELECTED REFERENCES

Grob, M., Watzinger, C., Willinger, B., Thalhammer, F., Koller, W., Rappelsberger, A. & Adlassnig, K.-P. (2024) *A Microbiology Analytics Tool to Evaluate the Burden of Antibiotic-Resistant Infections.* In Mantas, J., Hasman, A., Demiris, G., Saranto, K., Marschollek, M., Arvanitis, T.N., Ognjanović, I., Benis, A., Gallos, P., Zoulias, E., Andrikopoulou, E. (Eds.) Digital Health and Informatics Innovations for Sustainable Health Care Systems. Proceedings of MIE 2024, Studies in Health Technology and Informatics 316, IOS Press, Amsterdam, 1911–1915..

Koller, W., Kleinoscheg, G., Willinger, B., Rappelsberger, A. & Adlassnig, K.-P. (2019) *Augmenting Analytics Software for Clinical Microbiology by Man-Machine Interaction.* In Ohno-Machado, L. & Séroussi, B. (Eds.) MEDINFO 2019: Health and Wellbeing e-Networks for ALL – Proceedings of the 17th World Congress on Medical and Health Informatics, Studies in Health Technology and Informatics 264, IOS Press, Amsterdam, 1243–1247.