

# 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.*



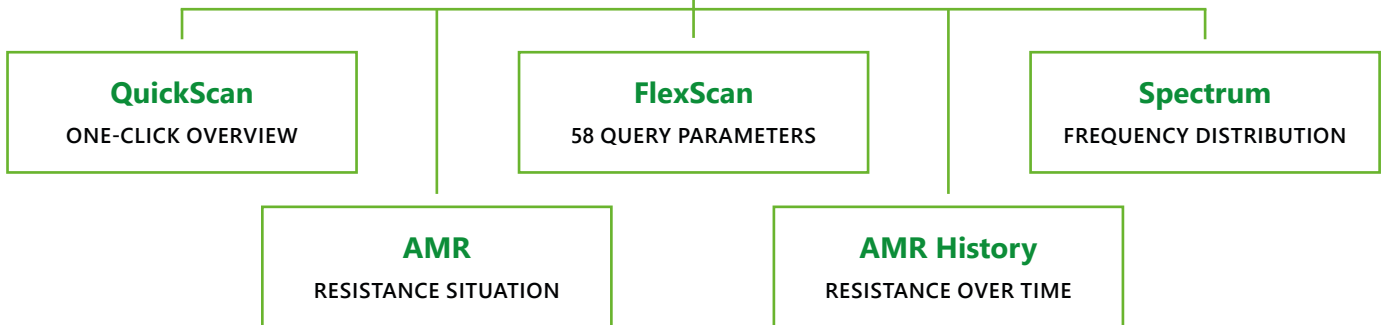
**REPORTS & BENCHMARKING** *Use MOMO for your mandatory AMR reports, internal and QM reports to your hospital's administration, or in medical research projects. Images and .csv files can be exported to Excel or similar programs, allowing you to create diagrams and statistics for your specific purposes.*



**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

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).

Patient	Sent By	Collection	Material / Location	Microbiology	Quantity	Approval	Amikacin	Aztreonam	Cefepim	Ceftazidim	Ceftazidim/avibactam	Ceftazidim/avibactam/meropenem	Ciprofloxacin	Colistin	Escapitronin	Genamivir	Imipenem	Meropenem	Piperacilin	Piperacilin/tazobactam	Tobramycin
Hughes, Tammy	Knochenmarkstransplantation	05/09/2018 09:00	Bronchialsekret	Pseudomonas aeruginosa (mucoid) 4 MRGN	mässig	approved	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Baker, Willie	Urologie	05/09/2018 10:00	Sputum	Pseudomonas aeruginosa 3 MRGN	mässig	approved	R	R	R	S	S	S	S	S	S	R	R	R	R	R	R
Hughes, Tammy	Knochenmarkstransplantation	05/09/2018 08:00	Rachen-Abstrich	Pseudomonas aeruginosa (non mucoid) 4 MRGN	mässig	approved	R	R	R	S	S	S	S	S	R	R	R	R	R	R	R
Hughes, Tammy	Chirurgie Ambulanz	05/08/2018 06:00	Abstrich 1 Bronchus Empfänger	Pseudomonas aeruginosa (non mucoid) 4 MRGN	mässig	approved	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Hughes, Tammy	Chirurgie Ambulanz	05/08/2018 06:00	Abstrich 1 Bronchus Empfänger	Pseudomonas aeruginosa (mucoid) 3 MRGN	reichlich	approved	R	R	R	S	S	S	S	S	R	R	R	R	R	R	R
Carter, Walter	Chirurgie Ambulanz	05/03/2018 11:00	Abstrich retroperitoneal chrous Mund, Ulcus re USDC	Pseudomonas aeruginosa 3 MRGN	mässig	approved	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Butler, Wayne	Chirurgie	05/03/2018 11:25	BAL-Flüssigkeit	Pseudomonas aeruginosa 4 MRGN	10E2 KBE/ml	approved	R	R	R	S	S	S	S	S	R	R	R	R	R	R	R
Butler, Wayne	Chirurgie	05/03/2018 10:38	Stuhl	Pseudomonas aeruginosa 4 MRGN	mässig	approved	R	R	R	S	S	S	S	S	R	R	R	R	R	R	R
Carter, Walter	Anästhesie/Intensiv	05/01/2018 12:26	Abstrich Wunde 4 USDC	Pseudomonas aeruginosa 3 MRGN	mässig	approved	S	R	R	R	R	R	S	S	S	R	R	R	R	R	R
Thompson, Anna	Urologie	04/30/2018 xxxxx	Abstrich Met. peripneum. E.	Pseudomonas aeruginosa 3 MRGN	reichlich	approved	S	R	R	R	S	R	S	S	S	S	S	S	R	R	R
Thompson, Anna	Urologie	04/30/2018 xxxxx	Abstrich Wund II.	Pseudomonas aeruginosa 3 MRGN	vereinzelt	approved	R	R	R	S	S	S	R	S	S	S	S	R	R	R	R
Edwards, Joe	OP	04/26/2018 xxxxx	Rachen-Abstrich	Pseudomonas aeruginosa (non mucoid) 3 MRGN	vereinzelt	approved	S	R	R	R	S	S	S	S	S	S	S	S	R	R	R
Reed, Diana	Strahlentherapie	04/26/2018 15:00	Abstrich	Pseudomonas aeruginosa 3 MRGN	mässig	approved	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R

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.

**MO** QuickScan FlexScan Spectrum & AMR Management Help Logout

**Queries** Templates

▼ Today

- P. aeruginosa 3MRGN/4MRGN Spectrum 11:30
- P. aeruginosa 3MRGN/4MRGN FlexScan 11:26

> This month

> Older

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**P. aeruginosa 3MRGN/4MRGN**

Please note that results are only shown for departments you have permission to access.

Microbiology	Count
<b>AMR</b> Pseudomonas aeruginosa 4 MRGN	291
<b>AMR</b> Pseudomonas aeruginosa 3 MRGN	283

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

Graphically displayed antimicrobial resistance pattern for each pathogen

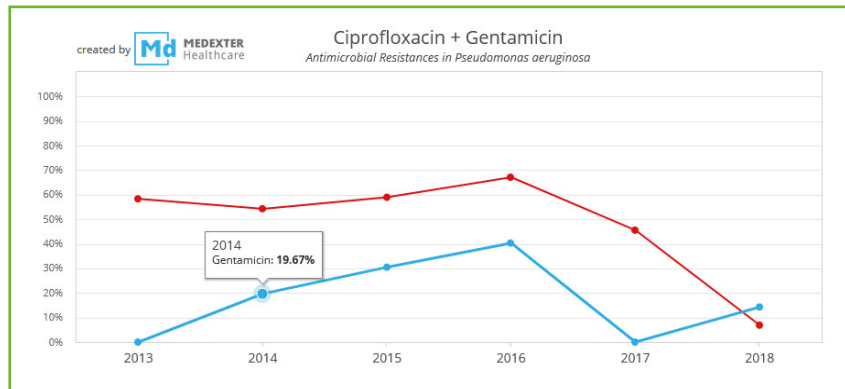


## AMR Resistance Situation

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

### 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.

### 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.

### 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).

### CONTACT US

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