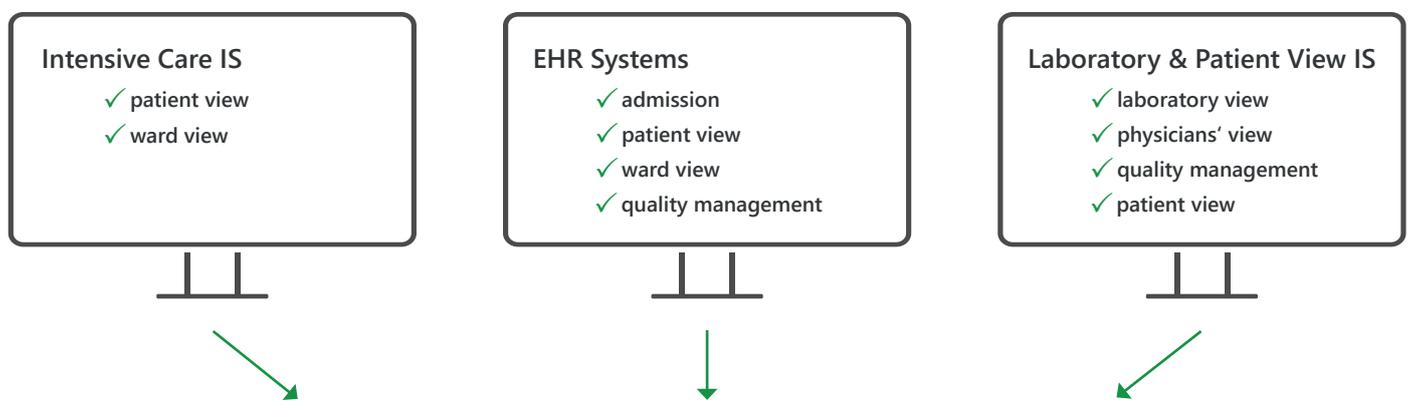


MOMO OneClick – immediate view of all microbiological results

Momo (Monitoring of Microorganisms) is a microbiology analytics and reporting tool with strong clinical and epidemiological features. It receives data from microbiological laboratories, including virological test results, stores them in a database, and makes them available to outside users.

An extremely efficient and clinically well-accepted application of Momo is its OneClick function. Given a particular patient or ward, Momo OneClick immediately retrieves all microbiological data from this patient or ward and presents it in a dense, yet clear and attractive graphical form.

Momo OneClick can easily be accessed from inside medical information systems such as electronic health record (EHR) systems, intensive care and laboratory information systems (IS), medical practice software systems, and others.



Powell, Terry							Antibiotik															
Patient	AKIM Pat. ID	Sent By	Collection	Material / Location	Microbiology	Quantity	Approval	Amikacin	Acetamin	Colistin	Clindamycin	Ciprofloxacin	Clotrim	Doxycyclin	Erythromycin	Ciprofloxacin	Carbapenem	Fosfomycin	Imipenem	Mercor		
Powell, Terry 31.07.2001, M	25545	Knochenmartransplantation Intensiv	01/12/2017 xxxxx #134410	Sputum	Staphylococcus aureus	10E5 KBE/ml	approved				S	S		S	S							
Powell, Terry 31.07.2001, M	25545	OP	12/02/2016 12:10 #83805 (Sample Received)	Abstrich Haut/Abstrich	Staphylococcus aureus	nach Anreicherung	approved			R	R		S	R								
Powell, Terry 31.07.2001, M	25545	OP	12/01/2016 15:06 #133889 (Sample Received)	Sputum	Pseudomonas aeruginosa (mucoid)	mässig	approved	I	I	S			S		I	MIC=0.72mg/l	MIC=1024mg/l	R	MIC=16mg/l	S	MIC=1.5mg/l	
Powell, Terry 31.07.2001, M	25545	OP	12/01/2016 14:13 #134305 (Sample Received)	Sputum	Pseudomonas aeruginosa (mucoid)3 MRGN	mässig	approved		I	R			R		S	MIC=0.72mg/l	MIC=1024mg/l	S	MIC=1.5mg/l			
Powell, Terry 31.07.2001, M	25545	OP	12/01/2016 15:06 #133889 (Sample Received)	Sputum	Pseudomonas aeruginosa (non mucoid)	spärlich	approved		I	S			S		S	MIC=0.32mg/l	MIC=1024mg/l	R	MIC=4mg/l	S	MIC=1.5mg/l	
Powell, Terry 31.07.2001, M	25545	OP	11/26/2016 xxxxx #134736	Rachen-Abstrich	Pseudomonas aeruginosa (mucoid)3 MRGN	spärlich	approved		I	R			R		S	MIC=1mg/l	MIC=12mg/l		MIC=1.5mg/l			
Powell, Terry 31.07.2001, M	25545	OP	11/25/2016 10:47 #134844 (Sample Received)	Sputum	Pseudomonas aeruginosa (mucoid)3 MRGN	mässig	approved	R	I	R			R		S	MIC=0.72mg/l	MIC=1024mg/l	S	MIC=2mg/l			
Powell, Terry 31.07.2001, M	25545	OP	11/17/2016 13:58 #134880 (Sample Received)	Sputum	Pseudomonas aeruginosa (mucoid)	vereinzelt	approved	R	I	S			R		S	MIC=1mg/l	MIC=0.5mg/l	MIC=1024mg/l	R	MIC=32mg/l	R	MIC=32mg/l
Powell, Terry 31.07.2001, M	25545	OP	11/17/2016 13:58 #134880 (Sample Received)	Sputum	Pseudomonas aeruginosa (mucoid)	vereinzelt		R	R	R			R		S	MIC=0.32mg/l	MIC=4mg/l	S	MIC=3mg/l	R	MIC=16mg/l	
Powell, Terry 31.07.2001, M	25545	OP	11/17/2016 13:58 #134880 (Sample Received)	Sputum	Pseudomonas aeruginosa (mucoid)	vereinzelt		R	I	S			R		S	MIC=0.52mg/l	MIC=2mg/l		MIC=8mg/l			
Powell, Terry 31.07.2001, M	25545	OP	11/17/2016 13:58 #134880 (Sample Received)	Sputum	Pseudomonas aeruginosa (non mucoid)3 MRGN	vereinzelt		R	R	R			R		S	MIC=0.32mg/l	MIC=12mg/l	R	MIC=32mg/l	R	MIC=32mg/l	
Powell, Terry 31.07.2001, M	25545	OP	11/14/2016 15:50 #134665 (Sample Received)	BAL-Flüssigkeit	Staphylococcus aureus	nach Anreicherung					S	S		S	S							
Powell, Terry 31.07.2001, M	25545	OP	11/14/2016 15:50 #134665 (Sample Received)	BAL-Flüssigkeit	Pseudomonas aeruginosa (mucoid)	10E4 KBE/ml	approved	R	I	R			R		S	MIC=0.52mg/l	MIC=192mg/l	I	MIC=8mg/l	S	MIC=2mg/l	
Powell, Terry 31.07.2001, M	25545	OP	11/14/2016 15:50 #134665 (Sample Received)	BAL-Flüssigkeit	Pseudomonas aeruginosa (mucoid)			R	I	S			R		S	MIC=0.52mg/l	MIC=6mg/l	R	MIC=32mg/l	R	MIC=4mg/l	
Powell, Terry 31.07.2001, M	25545	OP	11/14/2016 15:50 #134665 (Sample Received)	BAL-Flüssigkeit	Pseudomonas aeruginosa (non mucoid)			R	I	S			S		S	MIC=1mg/l	MIC=1024mg/l	R	MIC=4mg/l	S	MIC=1.5mg/l	

OneClick report including AMR profiles (with anonymized test data)

Extensions (work in progress)

- interpretations for microbiological test results
- calculation of time to positivity
- alerts for selected microbiological test results (e.g., MRSA)
- extension to virology
- alerts for selected virological test results (e.g., influenza A and B, RSV, SARS-CoV-2)
- pharmacogenetic dosing recommendations
- molecular-based clinical decision support

Selected References

Kainz, J., Gawrylkowicz, J., Strassl, R., Willinger, B., Thalhammer, F., Rappelsberger, A. & Adlansnig, K.-P. (2023) *Microbiological and Virological Knowledge-Based Alert Service*. In Mantas, J., Gallos, P., Zoulias, E., Hasman, A., Househ, M.S., Charalampidou, M. & Magdalinou, A. (Eds.) *Healthcare Transformation with Informatics and Artificial Intelligence, Studies in Health Technology and Informatics 305*, IOS Press, Amsterdam, 153–154.