

## MICROBIOLOGICAL INFORMATION BULLETIN (BIMIC)

### DESCRIPTION OF THE TECHNOLOGY

Resistance against microorganisms, in particular bacteria, is a global public health problem, both in terms of health impact, as it can lead to death, and economic impact. The rapid emergence of multi-resistant bacteria is calling antibiotic efficacy into question. This problem is of particular concern in clinical practice for the control of infectious diseases.

Currently, hospitals produce annual cumulative resistance reports, following the guidelines set by different scientific organisations in order to understand trends in bacterial resistance and intervene with guidelines based on local epidemiology. However, these reports do not perform continuous real-time monitoring, nor do they include relevant parameters, preventing the collection of information on antibiotic resistance in different scenarios, depending on the focus of infection, age, sex, the presence of resistance mechanisms, the service of origin or other relevant factors.

Researchers at INCLIVA have developed a computer application called the Microbiological Information Bulletin (BIMIC). This invention is employed to consult in real time the resistance of the main microorganisms causing infection and parameters of interest such as origin, sex, age, type of sample, mechanism of resistance, etc. This allows individualised consultations and helps in the choice of the best empirical treatment.

### ADVANTAGES

- ✓ Continuous monitoring.
- ✓ Incorporation of numerous parameters.
- ✓ Personalised, fast and accurate reports.

- ✓ Possibility of drawing up local antimicrobial treatment guidelines with updated local epidemiology.
- ✓ Optimal use of antibiotics

### STATE OF DEVELOPMENT

Software developed and in use by the Clínico-Malvarrosa Health Department.

### APPLICATION

Companies specialized in products related to microbiology and epidemiology.

### INTELLECTUAL PROPERTY RIGHTS

Registered software on 27 June 2024 with reference number SW-2024-01.

### COLABORATION SOUGHT

Companies interested in signing a licensing agreement or co-developing this technology.

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