

Eric Bonnet, Jean-Louis Galinier, Benoit Fontenel, Philippe Léger.
Clinique Pasteur, SantéCité, Toulouse. France.

Introduction. There are few recent publications, including a large number of strains associated with chronic wound infection. The aim of our study was to identify the most frequent bacteria associated with **chronic** wounds infections of lower limbs and to determine their rate of antimicrobial resistance.

Patients and methods. We conducted a retrospective study over a 5-year period [2011- 2015 (10 first months)] among patients managed in a . reference center for chronic wounds of lower limbs. According to internal protocols of good practice (avoiding swabs), bacteriological samples were performed in all patients with clinical signs of infection. Samples, consisting mainly of tissue biopsies and aspiration of purulent collections, were introduced into sterile vials (with adding physiological serum for tissue fragments) and sent to the microbiology laboratory within 60 minutes.

Results

The average age of the study population was 77 years.

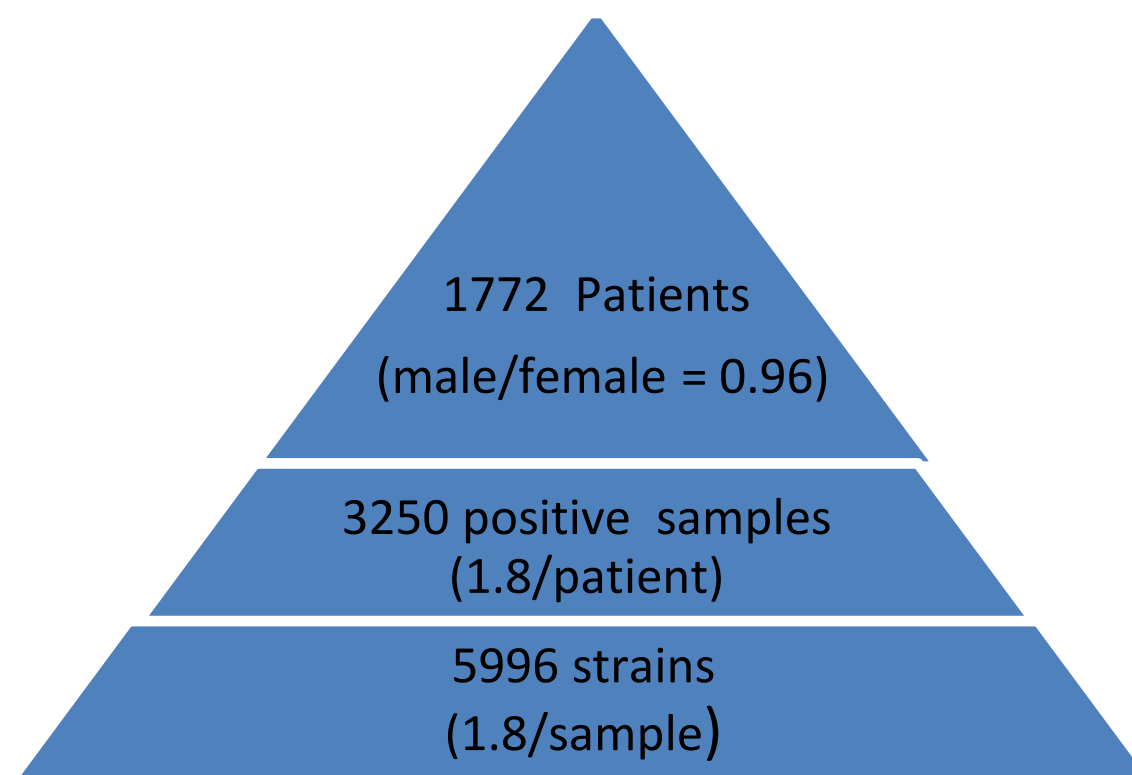


Table 1. Type of chronic wounds

Arterial ulcers	Venous ulcers	Mixed ulcers	Micro-circulatory trophic disorders	Diabetic foot	Traumatic wounds
21%	33.8%	10.5%	3.5%	18.7%	12.5%

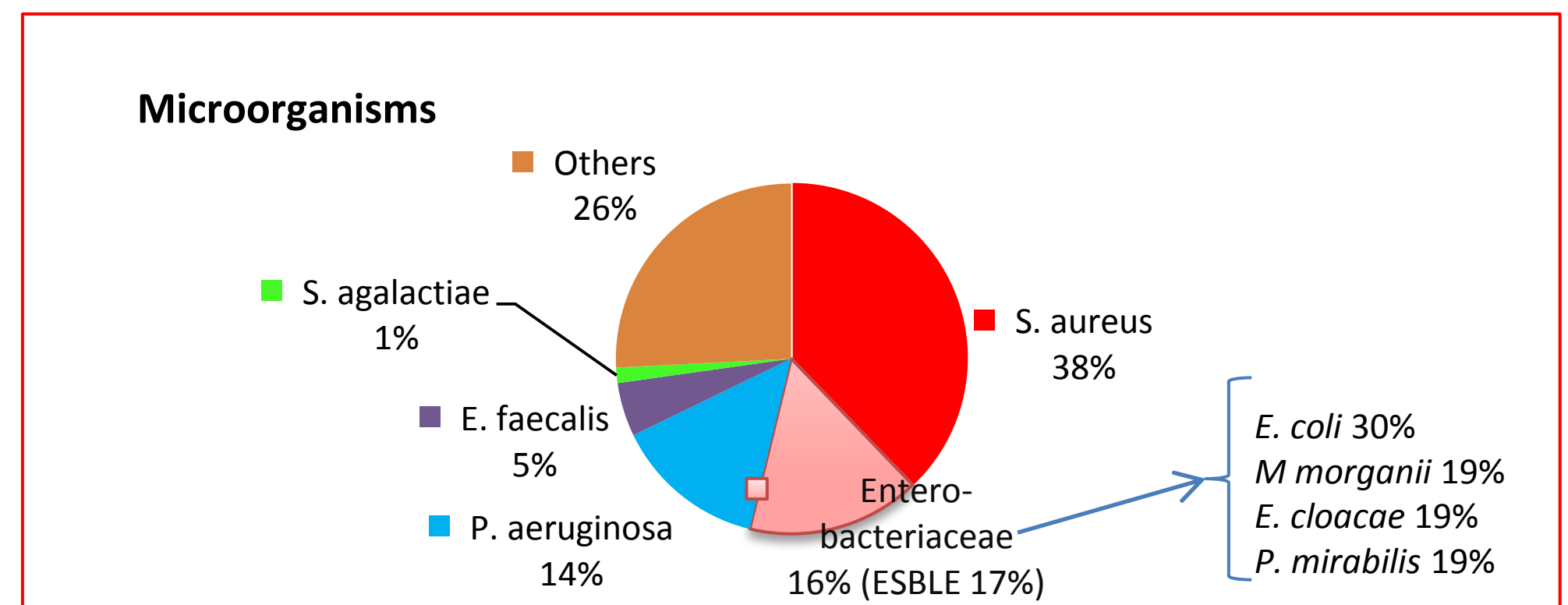


Table 2. *S. aureus* resistance rate

Oxacillin (2011/14)	Levofloxacin	Gentamicin	Cotrimoxazole	Vancomycin
43.9% (37/49%)	42%	13%	2.9%	0%

Table 3. *P. aeruginosa* resistance rate

Ceftazidime (2011/14)	Imipenem (2011/14)	Ciprofloxacin
15% (20/11%)	15% (28/10%)	44%

Conclusion In our population, mainly including patients having a long history of trophic disorders of the lower limbs, the rate of resistance to methicillin among *S. aureus* strains associated with infection was more than 2 times that of the general population. Therefore, in these patients, if an empirical antibiotic treatment is initiated because of a serious infection, it must cover MRSA. The need for continuous monitoring of local microbiological data in this particular population is essential.