

Chapter I

ONERBA's networks

ONERBA was established in 1997 with 11 networks of microbiologists involved in activities of surveillance of bacterial resistance to antimicrobials. In 2004, ONERBA federated 16 networks listed and briefly described below. (For more details on each network, please see the French part of the Chapter.)

1

Networks of private laboratories

■ AFORCOPI-BIO

Founded in 1986 – ONERBA's Scientific Board in 1997. 19 private laboratories in 8 French regions, performing microbiological analysis for ambulatory patients and private hospitals or health institutions (total of 1 420 beds). Main topic: urinary tract infections and bacterial resistance in the outpatients setting.

Method: prospective studies, susceptibility testing in each centre with external quality control organised by the co-ordinating centre; MICs performed in one centre.

■ AQUITAINE Network

Founded in 1998 – ONERBA's Scientific Board in 2000. 20 private laboratories grouped in 10 organisations in the Aquitaine region, performing microbiological analysis for ambulatory patients, 20 private hospitals, 2 general hospitals, 40 nursing homes and 7 rehabilitation centers.

Topic varies each year but is focused on bacterial resistance in outpatients and on the molecular aspect of bacterial resistance.

■ EPIVILLE

Founded in 1990 – ONERBA's Scientific Board in 1997. 15 private laboratories in 11 french regions, performing microbiological analysis for a total of 50 laboratories, including 1/3 under contract with private hospitals. Main topic: community-acquired infections.

2

Networks of hospital laboratories

■ AZAY-resistance network

Founded in 2001 – ONERBA's Scientific Board in 2003. 15 laboratories in teaching hospitals.

10 066 acute-care beds, 3 816 rehabilitation or long-term care beds.

Surveillance of bacteraemia all year long.

Data sent to EARSS after aggregation with other participating networks (Île-de-France microbiologists and REUSSIR).

Quality control performed by NEQUAS-EARSS.

■ Network of the Bacteriology-Virology-Hygiene College of Assistance Publique-Hôpitaux de Paris (University Hospitals)

Founded in 1993 – ONERBA's Scientific Board in 1997.

39 laboratories in teaching hospitals in Paris area.

20 496 beds, including 14 161 acute-care beds, 2 929 rehabilitation beds and 3 406 long-term care beds.

Surveillance of multidrug-resistance bacteria: record of all MRSA and ESBL-producing bacteria isolated from clinical samples during a 2-month period every year. Susceptibility tests are performed in each centre.

■ COL-BVH: Bacteriology-Virology-Hygiene College of general hospitals

Founded in 1989 – ONERBA's Scientific Board in 1997.

108 health institutions.

19 334 acute-care beds and 9 088 rehabilitation or long-term care beds.

Surveillance of bacteraemia one month a year since 2001 (15 days a year prior to 2001). Susceptibility tests are performed in each centre and external quality control is performed during the survey.

■ Network of the military hospitals

Founded in 1995 – ONERBA's Scientific Board in 1997.
9 laboratories of military hospitals.
2 585 acute-care beds (including 119 intensive-care beds).
Main topic: bacterial resistance in nosocomial infections.
Method: prospective multicenter surveys with susceptibility tests performed in each centre and an external quality control.

■ Network of the Île-de-France microbiologists

Founded in 1986 – ONERBA's Scientific Board in 1997.
8 health institutions, including 7 general hospitals and one private hospital.
3 709 acute-care beds, 970 psychiatry beds, 489 rehabilitation beds and 1 269 long-term care beds accounting for a total of 27% of hospital-beds in the Île-de-France region.
Surveillance of bacteraemia all year long since 2001.
Data sent to EARSS after aggregation with other participating networks (AZAY-resistance and REUSSIR).
Quality control performed by NEQUAS-EARSS.

■ REUSSIR network

Founded in 1995 – ONERBA's Scientific Board in 1997.
Network of the SIR system users (I2A society).
44 laboratories in 1999
13 laboratories in the 2000-2002 period.
27 laboratories in 2003, including 2 university hospitals, 19 general hospitals, 3 military hospitals, 2 private hospitals and one private laboratory performing analysis for a private hospital.
14 616 acute-care beds and 1 865 rehabilitation or long-term care beds.
Use of the SIR system for epidemiology (I2A society).
All clinical strains from all origins (except those from active surveillance cultures and environmental strains), all year long.
Duplicates are eliminated by the co-ordinating centre.
Surveillance of bacteraemia all year long.
Data sent to EARSS after aggregation with other participating networks (AZAY-resistance and Île-de-France microbiologists).
Quality control performed by NEQUAS-EARSS.

3

Networks of the Coordination Centres for Prevention of Nosocomial Infection (C-CLIN)

■ Champagne-Ardenne network (East)

Founded in 1996 – ONERBA's Scientific Board in 2000.
21 health institutions.
4 574 acute-care beds, 2 145 rehabilitation or long-term care beds.

■ Franche-Comté network (RF-CLIN, East)

Founded in 1993 – ONERBA's Scientific Board in 1997.
26 health institutions.
3 581 acute-care beds, 3 512 rehabilitation or long-term care beds.

■ Microbiological network of the C-CLIN Paris-Nord (Paris and North)

Founded in 1994 – ONERBA's Scientific Board in 1997.
93 health institutions.
5 teaching hospitals, 59 general hospitals, 19 private hospitals with public activities, 2 military hospitals, 2 cancer hospitals, 11 private hospitals.
30 769 acute-care beds (including 1 509 intensive-care beds), 5 966 rehabilitation beds, 8 907 long-term care beds.

■ Microbiological network of the C-CLIN Sud-Ouest (South-West)

Founded in 1993 – ONERBA's Scientific Board in 1997.
81 laboratories for 84 health institutions.
All 4 networks run 2 types of surveillance:
– surveillance of multidrug resistant bacteria each year during a 3-month period (2-month period for some networks prior to 2003);
– surveillance of bacteraemia during a 3-month period every year or every other year, depending on the network.

■ Hygiene network of the Centre of France

Founded in 1997 – ONERBA's Scientific Board in 2002.
32 health institutions, including one teaching hospital, one regional hospital, one general hospital, 14 private hospitals for a total of 6 546 acute-care beds and 4 009 long-term care beds.
Main topic: bacterial resistance in hospital- and community-acquired infections, and more specifically bacteraemia.
Method: a 3-month survey every year since 2000, with all MRSA strains and all ESBL-producing strains sent to a reference laboratory for susceptibility testing and molecular analysis. External quality controls are organised by the coordinating centre.

4

Networks of veterinary laboratories

■ RESAPATH

Founded in 2002, formerly RESABO in 1982 (for cattle surveillance) and RESAPATH in 1999 (for poultry and swine surveillance). ONERBA's Scientific Board in 1997 for RESABO, and 2002 for RESAPATH.
30 private or public laboratories performing analysis of samples from food-producing animals (cattle, poultry and swine).
Surveillance of a representative sample (2 000 to 2 500 strains per year per type of animal) of bacteria from cattle, poultry, and swine.

5

National Reference Centers

- Pneumococci.
- *Haemophilus influenzae*.
- Resistance of mycobacteria to antimicrobials.
- Mechanisms of resistance to antimicrobials.