

Nantes University Hospital Centre (CHU)

Activity and
key figures

2012



Hôtel-Dieu – Hôpital Nord Laennec – Hôpital Saint-Jacques
Hôpital mère-enfant – Maison Beauséjour – La Seilleraye – Hôpital Bellier

Activity and key figures 2012

Nantes University Hospital Centre (CHU) – 5 allée de l'Île Gloriette – 44093 Nantes Cedex 01 – France
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Nantes University Hospital Centre (CHU)



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Mission statement

The Nantes University Hospital Centre is committed to the three main roles assigned to university hospitals: care provision, research, education.



The professionals at the Nantes University Hospital Centre work in line with the fundamental principles of public hospital services, i.e. ensuring continuity in care provision during the day and night throughout the year, treating all users in the same way, guaranteeing optimal, quality service for all.

Care provision

The University Hospital Centre offers a range of standard and highly specialised medical and surgical services, alternatives to in-patient care (out-patient services, telemedicine, network services) and receives patients in the emergency department 24 hours a day.

Education

As part of their role, the doctors at the Nantes University Hospital Centre train future doctors, pharmacists and dentists. The training institute department also receives a large number of students training to work in the healthcare and social work sectors.

Research

The Nantes University Hospital Centre has been committed to research for over twenty years. The work at the Centre has helped establish its reputation as one of the "top ten" University Hospital Centres in terms of research.



Organisation

How is the Nantes University Hospital Centre managed and by whom?

The Chief Executive Officer of the Nantes University Hospital Centre, assisted by a board of management, is responsible for the management and general operation of the establishment. The Chief Executive Officer relies on the opinion of various bodies.

The role of the monitoring committee is to guide and monitor the management of the University Hospital Centre. The monitoring committee also includes representatives from local authorities, representatives of medical and non-medical professions, qualified individuals and user representatives.

The Nantes University Hospital Centre is organised into divisions and institutes covering complementary activities. These divisions are placed under the responsibility of doctors appointed by the Chief Executive Officer. They are assisted by a senior healthcare manager and a management assistant.

Monitoring committee

- Chair: Patrick Rimbart, mayor of Nantes.

General Management

- Chief Executive Officer: Christiane Coudrier

Board of Management

- Chair: Christiane Coudrier, Chief Executive Officer
- 1st vice-chairperson: Prof. Gilles Potel, chair of medical committee
- Vice-chairperson/Dean: Prof. Jean-Michel Rogez
- Vice-chairperson/Research: Prof. Philippe Moreau

Medical Committee

- Chair: Prof. Gilles Potel
- Vice-chairperson: Dr Éric Bord

See other bodies at www.chu-nantes.fr

Overview of University Hospital Centre

Nine establishments in Nantes and its conglomeration

(see access map p.22 and 23)



Hôtel-Dieu

Located in the city centre, Hôtel-Dieu contains 818 medical and surgical short-stay beds, Centre 15, the emergency department and Emergency medical services.



Mother and Child Hospital

Located in the same geographic sector as Hôtel-Dieu, the Mother and Child Hospital includes 307 beds and contains the gynaecology-obstetrics departments and those for treating children and adolescents.



Le Tourville

Located near Hôtel-Dieu, between Quai de Tourville and Rue Bias, the Le Tourville building contains departments specialised in hygiene and prevention in relation to public health.



Hôpital Saint-Jacques

Based on the South side of the city of Nantes, Hôpital Saint-Jacques is a hospital unit with 788 beds, containing the functional rehabilitation, psychiatric and geriatric departments. The site also contains the logistic platform for the University Hospital Centre.



Hôpital Nord Laennec

Based on the South side of the city of Nantes, Hôpital Saint-Jacques is a hospital unit with 788 beds, containing the functional rehabilitation, psychiatric and geriatric departments. The site also contains the logistic platform for the University Hospital Centre.



Maison Pirmil

Located inside Hôpital Saint-Jacques, Maison Pirmil contains 184 beds for long-term care and follow-up care.



Hôpital Bellier

Hôpital Bellier includes 135 beds.



Maison Beauséjour

Located to the North-West of Nantes, Maison Beauséjour contains 120 beds for long-term care.



La Seilleraye

Located in the municipality of Carquefou to the East of Nantes, La Seilleraye hospital contains 192 beds for long-term care.

Refurbishment

In 2012, the University Hospital Centre conducted over 150 construction operations, representing a total of over €56 million.

Hôtel-Dieu :

- PTMC Medical-Surgical Technical Platform
- Energy Division
- Paediatric refurbishment – Mother and Child Hospital
- Emergency department reception
- Upgrade of information system security (ISS)
- Grouping of consultations in osteoarticular division

Hôpital Saint-Jacques

- Central sterilisation
- Restructuring of energy division

Research and innovation

Among the Top Ten University Hospital Centres in terms of research

- Ranking 8th for scientific publications (Sigaps national classification);
- Ranking 5th for clinical trials;
- 4 national PHRCs and 6 inter-regional PHRCs awarded. A new Stic (aid for innovative and costly technologies) programme is coordinated by a team from the Nantes University Hospital Centre.

Results of activity

- Over 800 publications a year, 44% A and B publications (national average 38% in 2012).
- Further results: 10 patents, 3 marks and 1 software application.
- 10 new registered biological collections.
- 20 new industrial partnerships.



Suitable structures

- regional delegation for clinical research and innovation;
- research support federation (Far);
- clinical investigation centre (CIC) with a multidisciplinary module since 2001 and a biotherapy module since 2005;
- biological resource centre (CRB) intended to include the 120 existing collections and enable the creation of new ones;
- over 10,000 m² of building space devoted to research;
- the number of laboratories accredited by Inserm and Inra rose from 1 to 13 from 1990 to 2012 (9 UMR, 2 CIC, 2 Avenir, 1 UMS).

Activity in figures

1 146 active protocols,
including **899** interventional

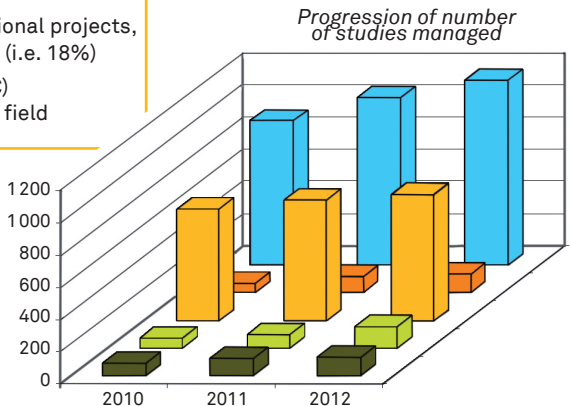
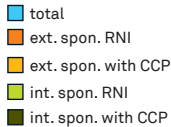
248 with internal sponsorship
including **114** interventional

98 new open projects
including **28** interventional

898 protocols with external sponsorship
481 sponsored by institutional partners
417 sponsored by industry

Involvement in **307** international projects,
including **56** in coordination (i.e. 18%)

25 innovation projects (STIC)
31.59% of studies in cancer field



Resources allocated to research

€37 million (20 million managed directly) and 317 full-time equivalents (382 employees).

€480 K allocated for calls for internal proposals, structural proposals (genomic platform), national interface contract support engineer contracts.

Bedside research

Over 3000 patients enrolled in 900 clinical trials, enabling them to access cutting-edge treatments.

Professional training

Colleges

The training institute department (Dif) at the Nantes University Hospital Centre is made of various institutes and colleges providing training for qualifications ranging from level V to level II in the healthcare and social work sectors. Over 1000 new students are registered each year.



Eleven training courses provided by DIF

Training for assistant and auxiliary professions: healthcare, assistants, childcare assistants, home care, ambulance personnel.

Initial third level training: nurses, radiological technicians, midwives.

Training for specialist nurses: operating theatre nurses, anaesthetic nurses, paediatric nurses.

Healthcare manager training.

Training

The healthcare, administrative and technical staff at the University Hospital Centre are offered a wide range of training. This provides the option of continuous training throughout a person's career.

The net expenditure allocated to professional training amounted to over €2 million in 2012.

Continuous medical training is provided for all doctors at the Nantes University Hospital Centre.

The budget allocated to the implementation of this plan represents €241,276, i.e. 0.5% of the payroll for medical doctors. The management of 54% of these sums is delegated to the university hospital divisions.

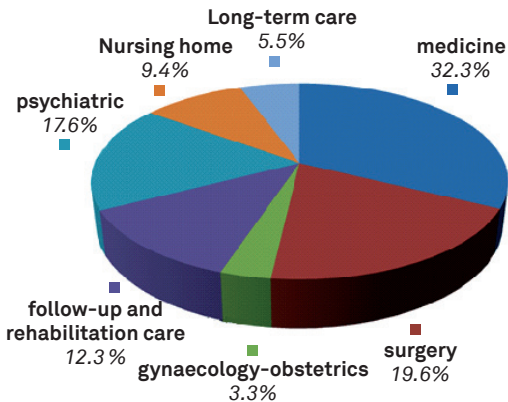
Patient admissions

Comprehensive care provision

Admission capacity: 2633 in-patient cases and 436 out-patient

The University Hospital Centre provides care including short-term care, follow-up care and rehabilitation, long-term care, psychiatric care and residential care for the elderly.

	in-patient	out-patient	total
Medicine	874	117	991
Surgery	562	37	599
Gynaecology-obstetrics	92	10	102
Short-stay	1 528	164	1 692
<hr/>			
Follow-up and rehabilitation care	344	33	377
Psychiatric	301	239	540
Nursing home	290		290
Long-term care	170		170
<hr/>			
Total	2 633	436	3 069



Development of out-patient care

Patients admitted in the morning are discharged on the same day. A constant rise in this type of care has been seen in recent years. This represents 25.4% of surgical cases and 57.3% of medical cases (40.4% if sessions are excluded).

Within the scope of the project aimed at grouping all short-stay activities on Île de Nantes by 2020/2025, the target is in excess of 60% of out-patient surgery care.

Care provision activity

Average length of stay (ALS)

Medicine-surgery-obstetrics
6 days



	<i>in-patient</i>		<i>out-patient*</i>
	admissions	days	day cases, sessions, appointments
Medicine	51 495	287 341	55 586
Surgery	27 628	156 074	6 739
Gynaecology-obstetrics	6 507	30 433	5 008
MSO	79 228	473 848	67 333
Follow-up and rehabilitation care	3 092	111 661	8 884
Psychiatric	4 573	89 883	64 960
Nursing home	148	102 443	
Long-term care	101	61 102	
Total University Hospital Centre	87 142	838 937	141 177

* out-patient cases: beds receiving patients for less than 24 hrs or sessions for some treatments

Transplantation and harvesting

	Transplants	Harvesting
Kidney	174	118
Heart	23	16
Heart-lungs	1	-
Lung	20	10
Liver	-	36
Pancreas	20	4
Cornea	121	216
Bone marrow (allografts)	80	
Bone marrow (autografts)	124	



Where do our patients come from?

The patients hospitalised at the University Hospital Centre mostly come from the Loire-Atlantique region (75.96%), of whom over half are from the Nantes conglomeration.

In other cases, the patients are from neighbouring departments: Vendée (10.32%), Maine-et-Loire (3.88%), Sarthe (0.47%) and Mayenne (0.39%).

Some highly specialised reference departments are very popular outside the Loire region, such as the burns department (43.5%), the thoracic transplantation unit (41.8%), ophthalmology (33.3%) or neuro-traumatology (20.2%).

Activity in figures

Births	3 975
Appointments and out-patient procedures	851 697
Operating sessions (operating theatres)	50 743
Number of extracorporeal circulation (ECC) procedures	1 575
MRI fixed-fee services	12 967
Scanner fixed-fee services	44 912
Emergency department admissions	105 835
→ of which paediatric emergencies	31 001
Calls to Centre 15	462 578
Ambulance and emergency unit interventions	6 658
Helicopter ambulance and emergency unit call-outs	644



Each day, this means...

139 surgical procedures
2327 consultations
10 births
290 emergency department admissions

7587 meals served
10.5 tonnes of laundry processed
11.3 tonnes of waste processed

Main equipment

Extracorporeal blood circulation
6 machines

Haemodialysis
32 stations

Radiodiagnosis using
ionising radiation
6 gamma-cameras

Radiodiagnosis using ionising radiation
4 scanners including 1 machine belonging
to an economic interest grouping

High-speed serial radiography and digital angiography machines
4 angiography machines

Nuclear magnetic resonance imaging for clinical use
3 x 1.5 Tesla machines including 1 machine belonging to an
economic interest grouping

Transperietal stone destruction
1 lithotripter

PET camera-scanner jointly operated with the
René Gauducheau cancer treatment centre
1 PET-scan



Quality process

A certified establishment

The University Hospital Centre was awarded certification by the French National Authority for Health (HAS) in 2010 for all the progress achieved. The Nantes University Hospital Centre was awarded the highest rating for seven practices identified as priorities by the HAS out of a total of 13.

Three recommendations are the subject of an action plan to be reviewed at the next certification inspection in September 2014: short-stay patient file management, the short-stay medication management quality process and and improving multidisciplinary consultation meeting traceability.

Hospital-acquired infection control



Class A or B
From the best...



Class C
...to the...



Class D or E
...worst

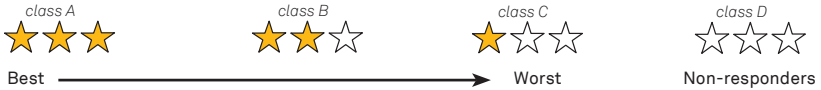


Class F
Non-responders

Overall reflection of hospital-acquired infection control	Combined activity score for 2011	87/100	
Hospital-acquired infection control organisation, resources, actions	Composite hospital-acquired infection control activity indicator (Icalin 2)	90/100	
Hand hygiene	Hydro-alcoholic product consumption indicator (ICSHA 2)	113/100	
Perioperative infection risk	Composite surgical site infection control indicator (ICA-LISO)	78/100	
Proper antibiotic usage	Composite indicator for proper antibiotic usage (ICATB)	76/100	
Multi-resistant bacteria transmission	Composite multi-resistant bacteria dissemination control indicator (ICA-BMR)	84/100	
Staphylococcus aureus	Three-year Methicillin-resistant Staphylococcus aureus (MRSA) indicator <ul style="list-style-type: none"> • 2009-2011 three-year rate for 1000 days • risk level • establishment campaign: annual trend from 2006 to 2011 	0.19	

Patient file indicators

Our establishment strives on an ongoing basis to improve its performances to increase the quality of the care provided and its traceability in the patient file.



Medicine, surgery, obstetrics (MSO)

				establishment result	progression 2010-2011	performance class
Information sharing during hospitalisation	Patient file updating	70%	★ ☆ ☆	→	C	
Communication with attending physician	Hospital discharge letter issue interval	39%	★ ☆ ☆	→	C	
Pain measurement	Pain assessment traceability	45%	★ ☆ ☆	→	C	
Weight measurement	Screening for nutrition disorders	74%	★★ ☆	→	B	
Information sharing for anaesthetic purposes	Anaesthetic file updating	83%	★★ ☆	→	B	
Medication and infarction	Medication prescriptions after myocardial infarction (MI)	88%	★★ ☆	→	B	
Lifestyle and infarction	Awareness of lifestyle-nutritional rules after myocardial infarction	85%	★★ ☆	→	B	
Team medical decision in cases of cancer	Multidisciplinary cancer care consultation meeting	55%	★ ☆ ☆	→	C	

User satisfaction

The Nantes University Hospital Centre provides users with a questionnaire to obtain their opinion on their stay. In 2012, 74% of users rated the overall care provided as excellent and very good.

Economic activity

To carry out its role in full, the University Hospital Centre is faced with overheads of 785 million Euro each year.

Income

Income
Payments from health insurance fund
€629.7 million

Other hospital activity income
€47.7 million

Other income
€108.5 million

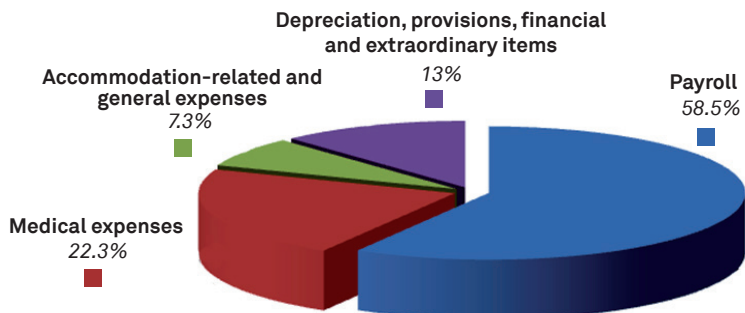
Expenditure

Payroll
€459 million

Medical expenses
€175 million

Accommodation-related and general expenses
€57 million

Depreciation, provisions, financial and extraordinary items
€93 million



Investments

Investment expenditure: construction, IT, biomedical, economic and logistic services
€78.7 million

→ Expenditure: €784,436,557

→ Income: €785,901,913

→ Excess: €1,465,356

Human resources

No. 1 employer in region with staff of 11,770

2570 medical staff

■ 224 practitioners

university professors and hospital practitioners (PU-PH) – university lecturers – hospital practitioners (MCU-PH) – university hospital practitioners (PHU) – university hospital chief resident – hospital assistants (CCA-AHU)

■ 542 practitioners

hospital practitioners (PH) – part-time, contract, assistant hospital practitioners

■ 48 practitioners

odontologists

■ 29 practitioners

pharmacists

■ 294 practitioners

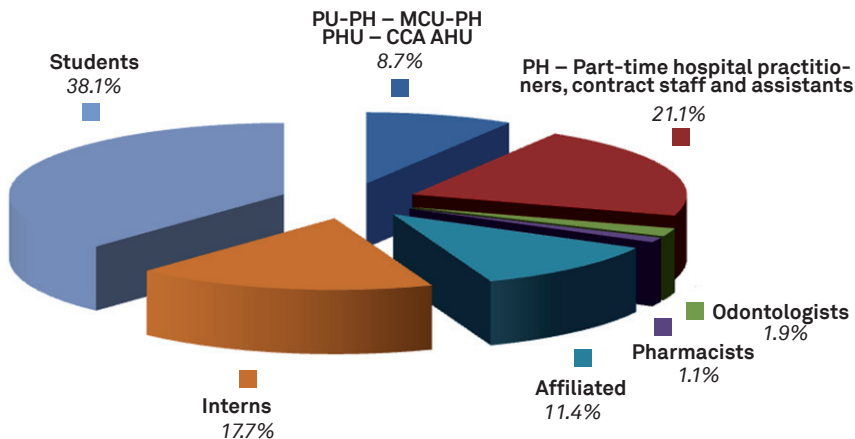
affiliated practitioners

■ 455 interns

interns

■ 978 students

students



9200 non-medical staff (8,510 FTE*)

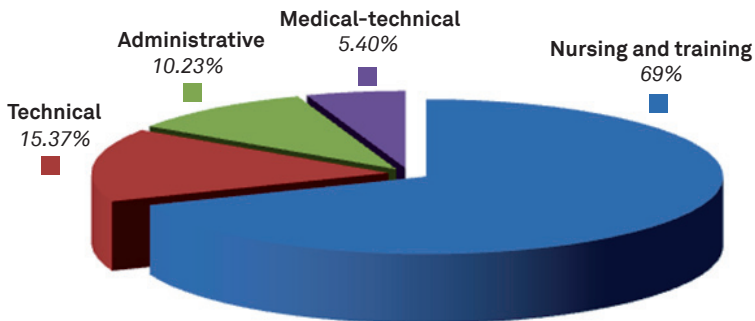
*full-time equivalents

- nursing and training
6,377 employees (5,872 FTE)
 - of which nurses and specialised nurses
2,949 employees (2,724 FTE)
 - of which healthcare assistants and child care assistants
2,268 employees (2,084 FTE)
 - of which hospital service employees
421 employees (405 FTE)

- technical
1,397 employees (1,308 FTE)

- administrative
934 employees (870 FTE)
 - of which medical secretaries
418 employees (401 FTE)

- medical-technical
492 employees (459 FTE)



The University Hospital Centre is also involved in...

Prevention actions

The medical and nursing teams regularly attend information and awareness days on public health topics (immunisation, sleep, melanoma, hand hygiene, AIDS control, nutrition, etc.), intended for healthcare professionals and the general public.



International relations

For many years, the Nantes University Hospital Centre provides medical, paramedical, technical and administrative expertise within the scope of international cooperation, through training and mentoring actions. It also provides material support for some NGOs and charity organisations, particularly through donations of scrapped medical equipment and access to specially negotiated rates with its suppliers.



● partnerships

Patient information

To keep them informed as much as possible, the University Hospital Centre provides patients with an array of information materials: patient admission booklet, department-specific admission booklets, prevention brochures, poster campaigns, website, facebook page and twitter account, etc.



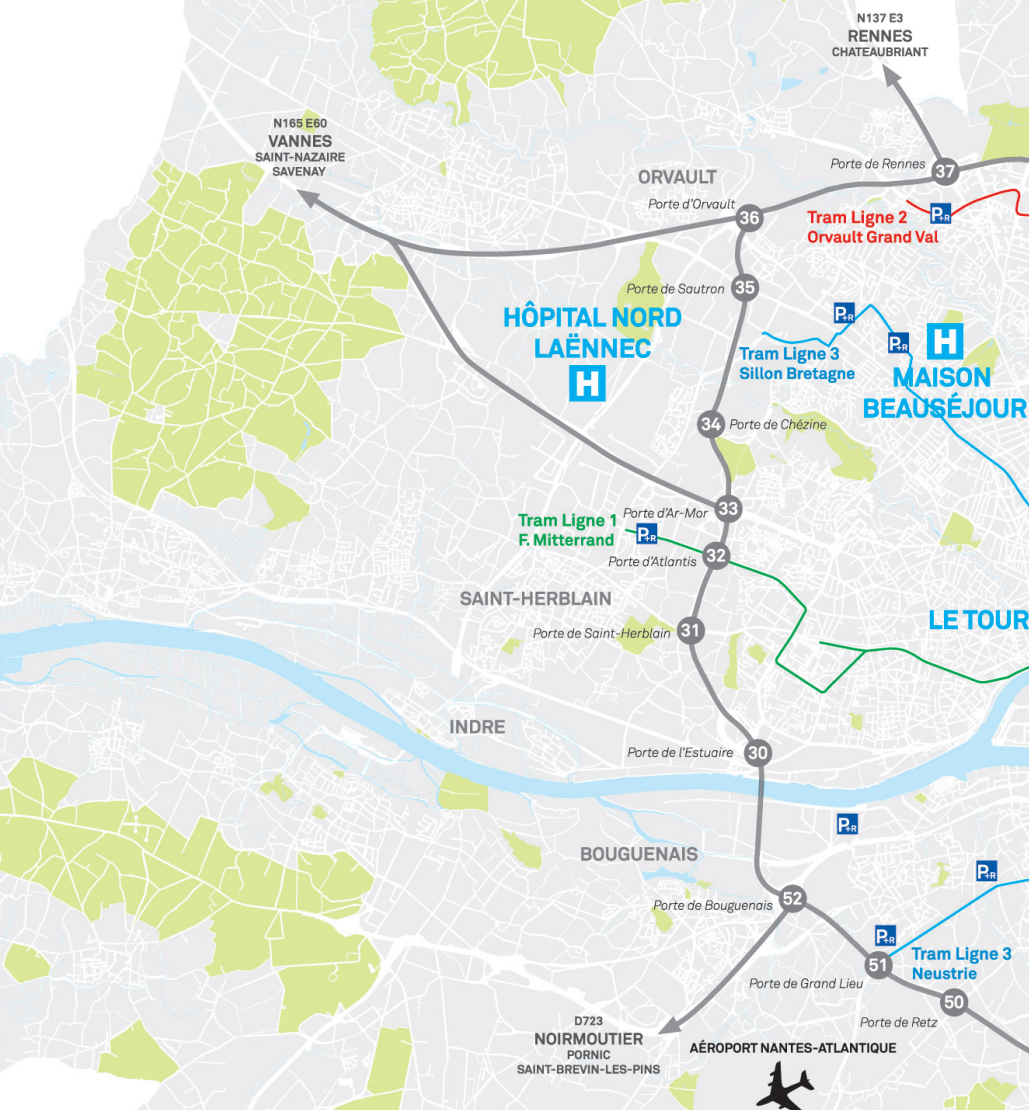
Cultural activities

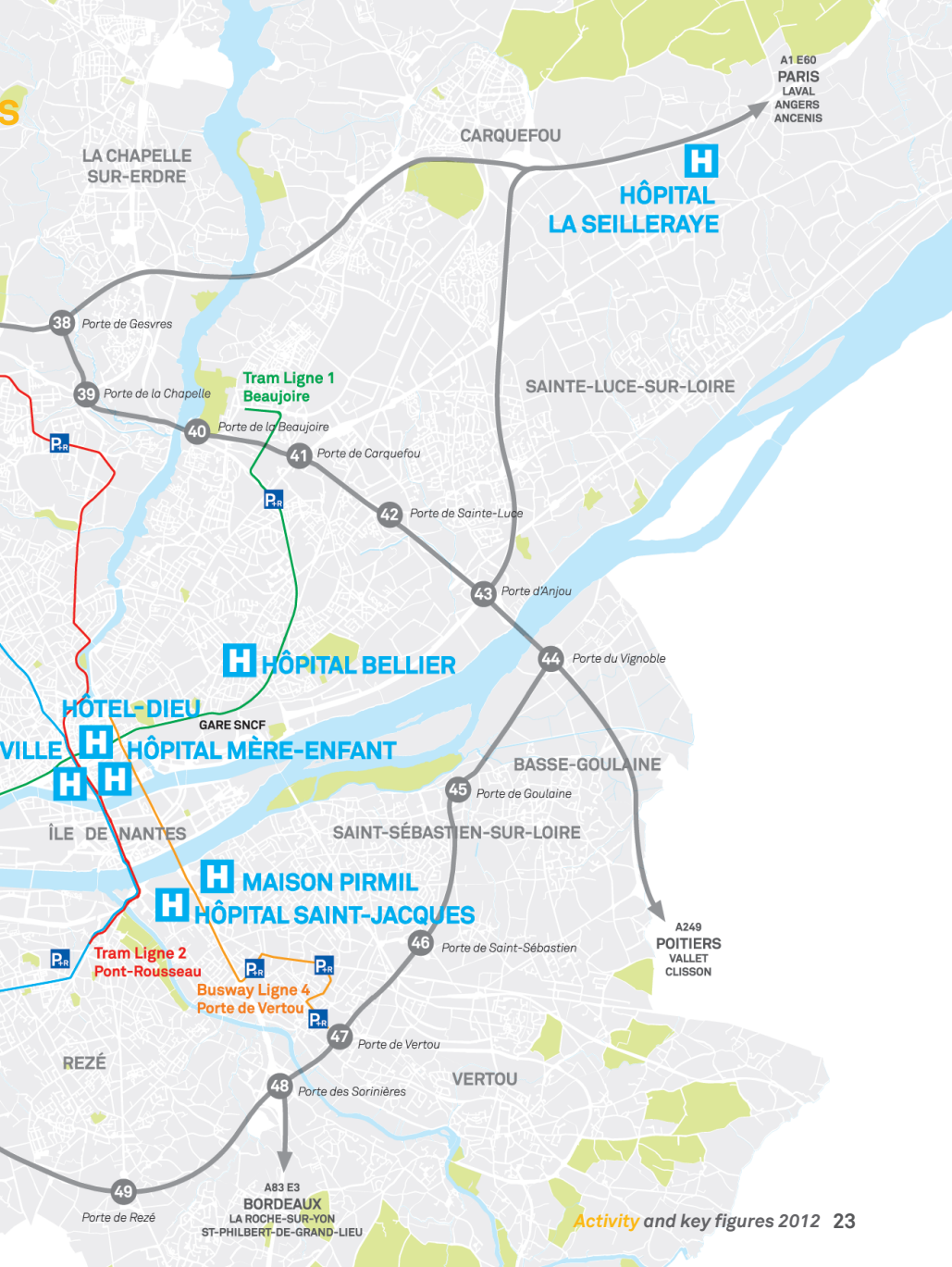
Cultural activities offer an opportunity for freedom of expression in a hospital sector which is subject to constraints in many other areas. Even in the case of very brief hospital stays, the hospital becomes the patient's residence and artistic events help make the place more pleasant.

- 2 hospital orchestras (jazz and classical);
- 3 cinema festivals;
- 3 music festivals;
- 7 partnerships with cultural bodies based in Nantes;
- 4 concerts by the National Loire region orchestra;
- 5 exhibitions on multiple sites;
- €39,500 joint financing from Drac-ARS;
- 1 artist's residence;
- 1 partnership with Nantes National choreographic centre.



Nantes University Hospital establishment distributed around Nantes and its conglomeration





A1 E60
PARIS
LAVAL
ANGERS
ANCENIS

CARQUEFOU

LA CHAPELLE
SUR-ERDRE

H
HÔPITAL
LA SEILLERAYE

38 Porte de Gesvres

39 Porte de la Chapelle

Tram Ligne 1
Beaujoire

40 Porte de la Beaujoire

41 Porte de Carquefou

SAINTE-LUCE-SUR-LOIRE

42 Porte de Sainte-Luce

43 Porte d'Anjou

H HÔPITAL BELLIER

44 Porte du Vignoble

HÔTEL-DIEU
GARE SNCF
H HÔPITAL MÈRE-ENFANT

BASSE-GOULAINÉ

45 Porte de Goulainé

ÎLE DE NANTES

SAINT-SÉBASTIEN-SUR-LOIRE

H MAISON PIRMIL
H HÔPITAL SAINT-JACQUES

46 Porte de Saint-Sébastien

A249
POITIERS
VALLET
CLISSON

Tram Ligne 2
Pont-Rousseau

Busway Ligne 4
Porte de Vertou

47 Porte de Vertou

REZÉ

VERTOU

48 Porte des Sorinières

49 Porte de Rezé

A83 E3
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Activity and key figures 2012

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