

GRENOBLE ALPES UNIVERSITY HOSPITAL



Grenoble Alpes University Hospital *CHUGA (CHU Grenoble Alpes)*



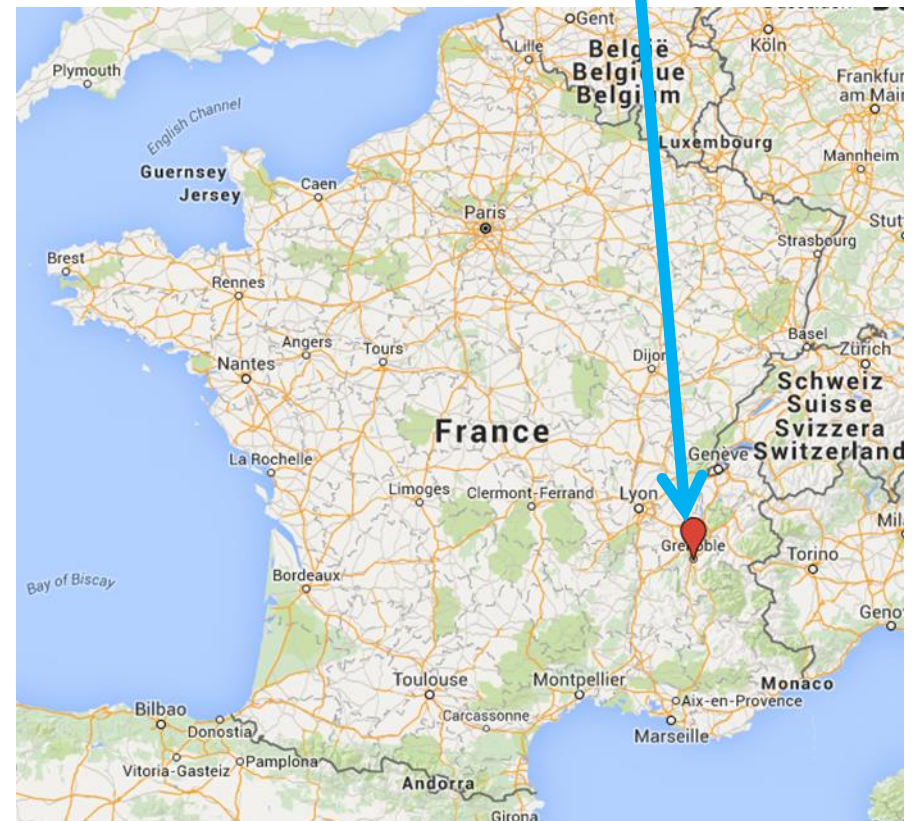
Grenoble Alpes University Hospital is the reference hospital in the **alpine region**.

Population of the region : 2 million people



Grenoble is located:

- 1h from Lyon
- 1h30 from Geneva
- 3h from Paris
- 4h from Milano





At the heart of a unique health ecosystem in France

Grenoble: a unique health ecosystem in the heart of the Alps

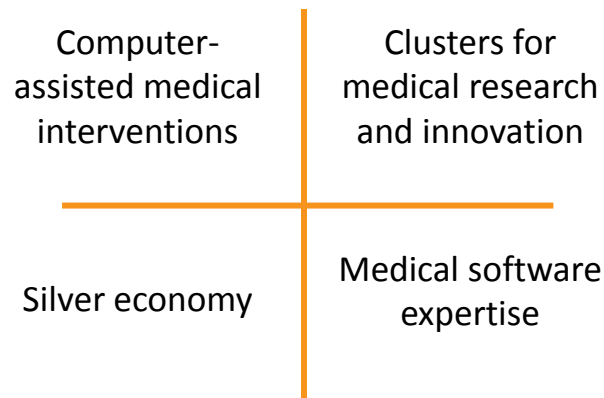


Grenoble: a unique health ecosystem in the heart of the Alps

5th **most inventive city** in the World (Forbes, July 2013)

Strongest focus on **research** in France

A UNIQUE ENVIRONMENT IN MEDICAL TECHNOLOGIES



World firsts « made in Grenoble » :

- ✦ *First neurosurgery robot*
- ✦ *First navigation of total knee surgery*



2019 Shanghai ranking : French top 7 / World top 200

2019 Reuters' ranking - Europe most innovative universities : # 33

✦ In 2016, Grenoble Alpes University was granted the **IDEX Label - Excellence Initiatives** – by an international jury.

✦ This label, granted to only 10 French Universities, aims to create **world-class teaching and research centers of excellence**.



2019: Grenoble in French top 5 of « Best city to study »

• **Medical and pharmacy schools : at the edge of innovation in education**

- ✦ A culture of **innovation in education** :
Problem-based education, tutoring, flipped education, digital platforms
- ✦ Pilot for the implementation of **tablet-based examinations for the National Residency Test**
- ✦ **Simulation-training**
- ✦ **New shared campus with nursing schools** – *Opened in June 2019*

**2016 : Grenoble Med and Pharma schools in French top 3
at National Residency Test**



At the heart of Grenoble Alpes University Hospital

Main locations of the University Hospital

- **Northern Site – *La Tronche***

- ✦ Michallon Hospital
- ✦ Parents and Children's Hospital
- ✦ Biology and Pathology Institute
- ✦ Medical and Pharmacy schools
- ✦ Nursing schools
- ✦ Research Institutes

- **Southern Site – *Échirolles***

- ✦ South Hospital
- ✦ Rehabilitation Institute
- ✦ Southern Center for Gerontology
- ✦ Nursing schools



- **Teams striving for excellence**

9 500 professionals caring for patients

1 800 physicians

- **Capacity**

More than **2 100** beds and outpatient places

- **Medical activity**

3 000 births

35 000 surgical procedures

210 transplants

571 000 days of hospitalization

840 000 outpatient visits

110 000 emergency visits

- **Budget**

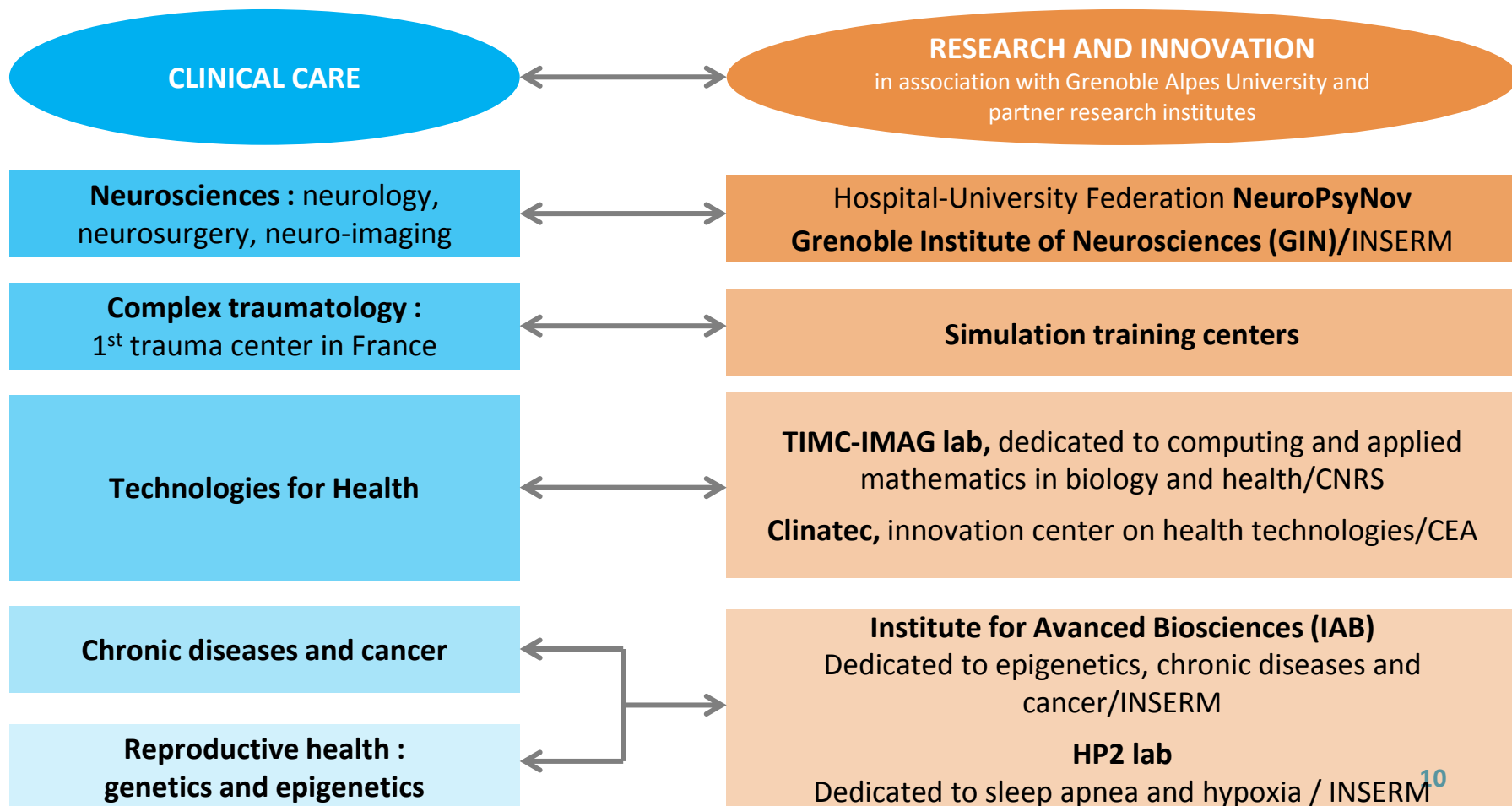
Operating budget : **708 M€**

Investment budget : **60 M€**

Grenoble Alpes University Hospital's strengths

Grenoble Alpes University Hospital is a teaching hospital, offering **all medical specialties**.

On the international stage, Grenoble's **main areas of excellence** are :



Maintaining momentum in research

National research rankings :

- Scientific articles : **12th**
- Department of Clinical Research and Innovation (DRCI) : **12th**

1 450 research projects underway

5 000 CHUGA patients included in clinical trials in 2018

50 million € budget dedicated to research

2014:
Lasker Prize awarded to Prof Benabid from Grenoble University Hospital for his research on Parkinson disease.





• Emergencies

Emergencies : **110 000** visits

Emergency medical regulation (SAMU) :
230 000 cases handled

Emergency medical regulation (SMUR) :
5 460 land callouts
1 560 helicopter callouts

Emergency operating rooms : **4 600** procedures

• Anesthesia and Intensive care

1 100 patients requiring trauma intensive care each year

36 surgical intensive care beds
18 medical intensive care beds
16 surgical continuous care beds
10 medical continuous care beds



An advanced medical-technical platform



Biology and Pathology Institute

- ✦ A new building opened in 2011
- ✦ One of only two **automated platforms** in microbiology in France

Surgery

- ✦ 1 DA VINCI Robot

Imaging

- ✦ 4 MRIs
- ✦ 5 CT-scans

Radiotherapy and nuclear medicine

- ✦ 3 particle accelerators : 2 TomoTherapy / 1 Clinac
- ✦ 4 gamma cameras

Clinical pharmacy

- ✦ Practicing pharmacy at « patients' beds »
- ✦ In France, a discipline invented in Grenoble to :
 - ✦ Improve patient safety
 - ✦ Optimize drug prescriptions



Moving towards the future

New Technical Platform – 2021

- Renovating the emergency department to optimize care pathways
- Bringing together intensive care and continuous care units
- Building a roof heliport



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New innovative Interventional Platform – 2021

- State-of-the-art operating rooms dedicated to each discipline
- 3 zones : High turnover – Complex cases – Emergencies
- A platform including radiology and interventional medicine

**A 50-place unit for
outpatient surgery**



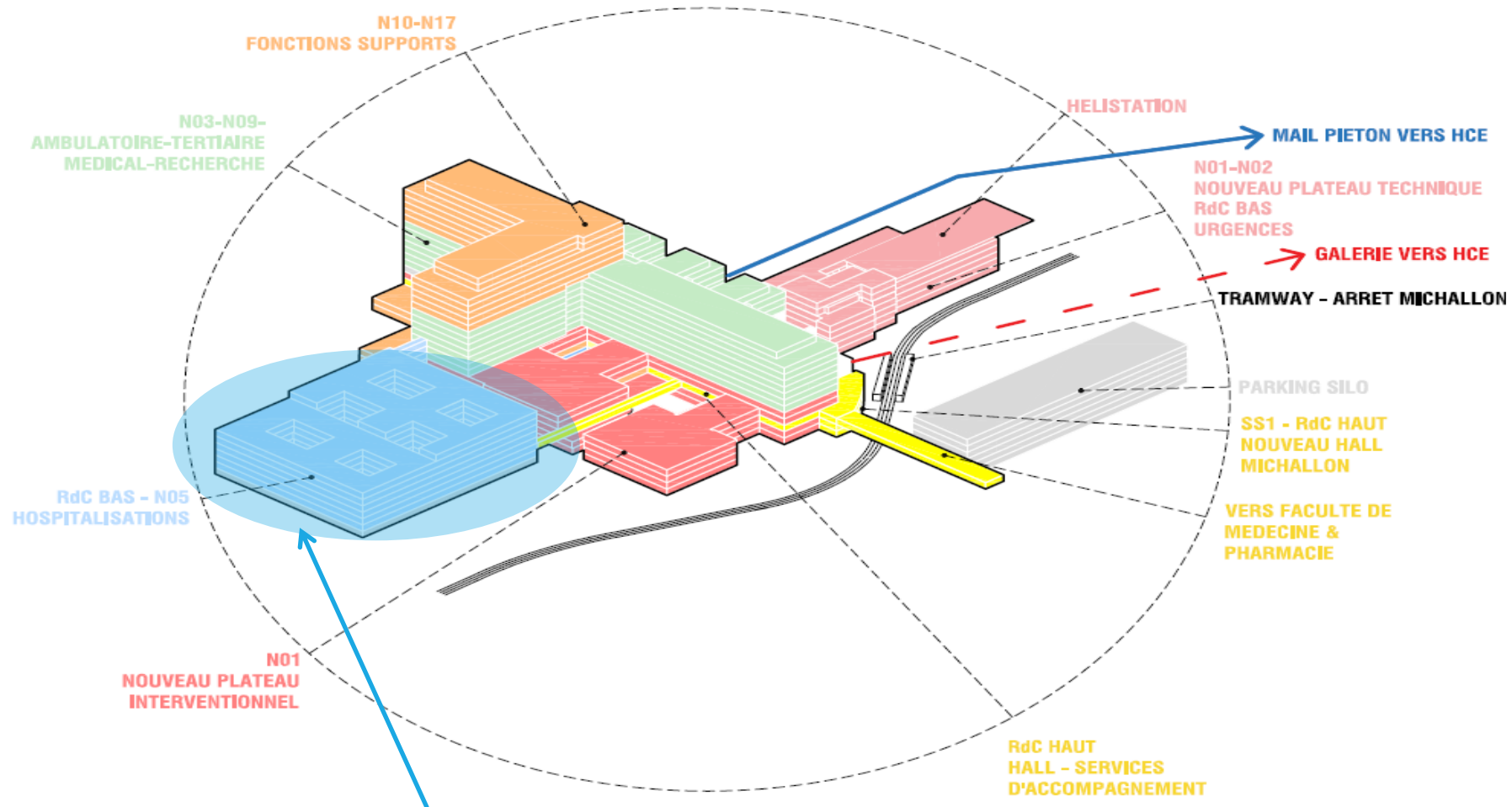
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**State-of-the-art
equipment**



©Siemens Healthcare

New building dedicated to hospitalization – 2025



New building dedicated to hospitalization: to be opened in 2025

International partnerships

- Our international vision

Inventing hospital's future through international outreach

- Main objectives

Building strategic partnerships, especially in research

(fundamental – translational – clinical)

Promoting CHUGA's expertise and centers of excellence

Supporting openness to the world and international mobility

Strengthening « pro bono » and humanitarian actions

Strengthening international partnerships

CHUGA belongs to a **strong international network** through Université Grenoble Alpes (UGA) :

- **653 partner universities** - 81 countries
- **180 nationalities on Grenoble campus** - 20 languages taught
- **5 Erasmus Mundus Masters** - 53 double degrees



IDEX label - Excellence Initiative label is a strong incentive for CHUGA and UGA to strengthen international strategic partnerships

In addition to academic partnerships, CHUGA develops its **own international collaborations** - see next slides

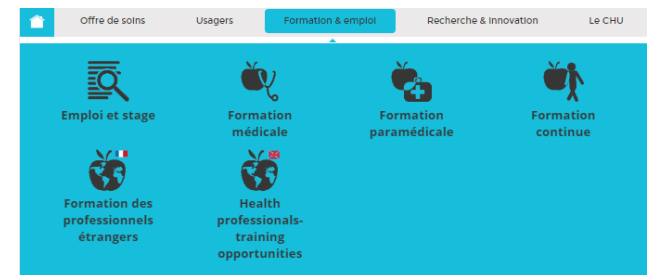
Main actions to implement CHUGA's international strategy :

1. Foreign professionals' welcome policy

- Toolbox available on the Intranet
- Dedicated pages on Website

2. Strategy to support international mobility

3. International patients' welcome policy



CHUGA's international strategy is supported by










and by






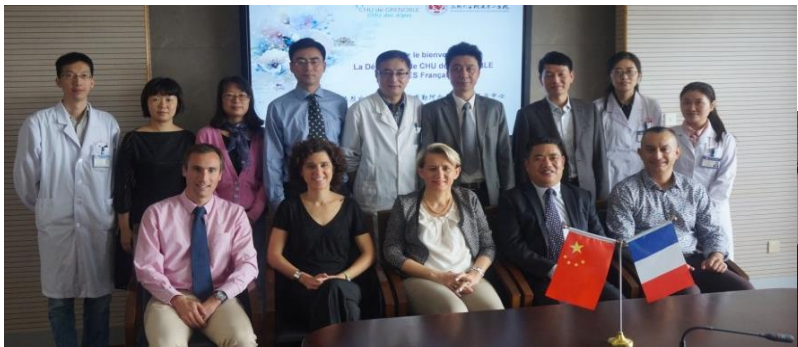
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Main international partnerships

Country	Partner	Main actions or topics	Good to know
Global partnership	"Doctors without borders" 	Continuous training, best practice exchanges	CHUGA : only French University Hospital with a strategic partnership with the NGO
Spain	Hospital Clinic - Barcelona 	Joint European projects Professional exchanges between management teams	This partnership is funded and supported by La Région Auvergne-Rhône-Alpes
Switzerland	Lausanne University Hospital 	Emergency medicine	This partnership is funded and supported by La Région Auvergne-Rhône-Alpes
Russia	Irkustsk State Medical University 	- Exchange of French-speaking medical students and residents Joint symposiums	Partnership initiated in 1997
Morocco	Oujda University Hospital 	Management of operating rooms Rheumatology	Oujda is the latest University hospital opened in Morocco
Morocco	Cheikh Khalifa Ibn Zayed Foundation – Casablanca 	Simulation training Training of field health managers	This partnership is funded and supported by La Région Auvergne-Rhône-Alpes
Canada	Quebec University Hospital and Laval Medical School 	Pediatrics - exchange of residents	

Focus on CHUGA's partnerships with China

Province in China	Partner	Main actions	Good to know
Zhejiang	Provincial Health and Family Planning Commission 	<u>Current actions</u> <ul style="list-style-type: none"> - Exchange of high-level delegations - Short-term trainings of visiting doctors - Areas of stronger cooperation: critical care, clinical pharmacy, traditional Chinese medicine 	CHUGA is the only French partner of Zhejiang Health Commission. This partnership is funded and supported by La Région  Auvergne-Rhône-Alpes
Jiangsu	Suzhou's 2 nd affiliated hospital of Soochow University 	<u>Current actions</u> <ul style="list-style-type: none"> - Trauma center system organization - Neuro-imagery - Rehabilitation medicine - Pharmacy 	Suzhou's 2 nd affiliated hospital will be 1 of the 2 reference trauma centers of the municipality (13 million inhabitants)



Welcoming Zhejiang health professionals in Grenoble

- **2 month-training in clinical unit**
- Each trainee gets individual supervision by a senior health professional
- Special visits during training: research centers, operating rooms, trauma center...
- Grenoble health professionals deliver presentations on quality management, research organization, infection control management...

This program is funded and supported by **La Région**  and by

Auvergne-Rhône-Alpes



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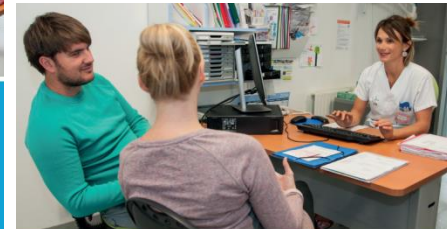
A recent but successful programme:

- 2016-2017: 12 visiting doctors and 2 head nurses from Zhejiang
- 2018-2019: 17 visiting doctors and 1 director of nursing
- **TV coverage** about this partnership



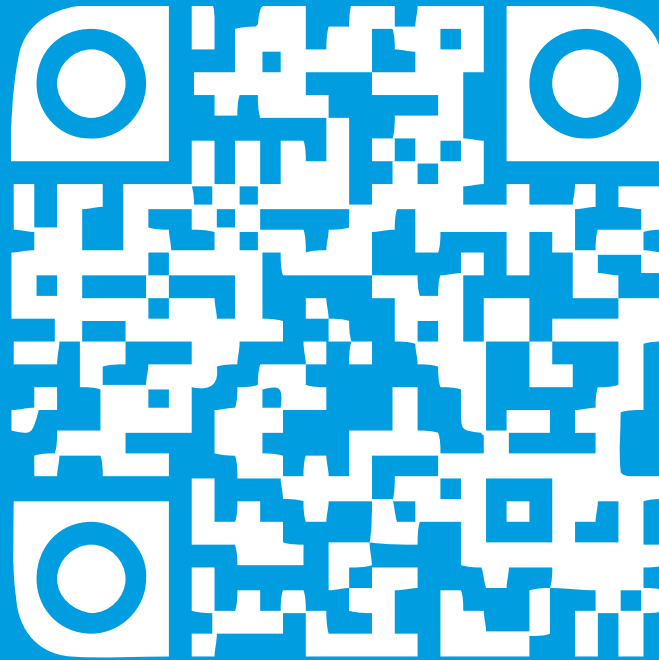
Welcoming international patients

- Due to its location, at the heart of the Alps and close to Switzerland and Italy, CHUGA has a **culture of welcoming international patients**.
- International patients's welcome policy includes :
 - Dedicated administrative staff
 - Strengthened translation capabilities
 - Communication tools : welcome guides, dedicated pages on website
 - Agreements with local hotels, with special prices for patients
 - Specific and more flexible billing procedures for patients referred through institutional partnerships
- Results of this strengthened welcome policy:



Since mid-2016: more than **130 Koweiti patients** hospitalized at CHUGA, mostly in orthopedics. These patients are all referred by the Koweit Embassy.

Since 2016: more than 30 patients hospitalized at CHUGA for **live donors' kidney transplant**. These patients mostly come from Eastern Europe, Northern and Western Africa



www.chu-grenoble.fr



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