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

- Computer-assisted medical interventions
- Clusters for medical research and innovation
- Silver economy
- Medical software expertise

World firsts « made in Grenoble »:

- First neurosurgery robot
- First navigation of total knee surgery
A Hospital in partnership with a world-class University

**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 is a teaching hospital, offering **all medical specialties**.

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

**CLINICAL CARE**

- **Neurosciences**: neurology, neurosurgery, neuro-imaging
- **Complex traumatology**: 1st trauma center in France
- **Technologies for Health**
- **Chronic diseases and cancer**
- **Reproductive health**: genetics and epigenetics

**RESEARCH AND INNOVATION**

- Hospital-University Federation **NeuroPsyNov**
- **Grenoble Institute of Neurosciences (GIN)**/INSERM
- **Simulation training centers**
- **TIMC-IMAG lab**, dedicated to computing and applied mathematics in biology and health/CNRS
- **Clnatec**, innovation center on health technologies/CEA
- **Institute for Advanced Biosciences (IAB)**
  Dedicated to epigenetics, chronic diseases and cancer/INSERM
- **HP2 lab**
  Dedicated to sleep apnea and hypoxia / INSERM
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.
France’s top trauma center

• **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

©Umlaut/Christophe Valtin
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

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
CHUGA International 2016-2020

• 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 La Région Auvergne-Rhône-Alpes and by

MINISTÈRE DES SOLIDARITÉS ET DE LA SANTÉ
# Main international partnerships

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

<table>
<thead>
<tr>
<th>Province in China</th>
<th>Partner</th>
<th>Main actions</th>
<th>Good to know</th>
</tr>
</thead>
</table>
| Zhejiang         | Provincial Health and Family Planning Commission | **Current actions**  
- 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<sup>nd</sup> affiliated hospital of Soochow University | **Current actions**  
- Trauma center system organization  
- Neuro-imagery  
- Rehabilitation medicine  
- Pharmacy | Suzhou’s 2<sup>nd</sup> 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

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.