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1

# The Quirónsalud Group

## 1. THE QUIRÓNSALUD GROUP

# ABOUT US

We are Quirónsalud, Spain's largest hospital group and, following the merger with the German firm Fresenius (Helios), now the biggest in all of Europe.

Our network is composed of 44 hospitals spread across 13 regions of Spain and one facility in Lima, Peru.

The Helios Group features 113 hospitals throughout Germany.

The total staff of Quirónsalud is over 37,000.

We offer comprehensive healthcare to each patient across all medical specialties.

At present, we have seven university hospitals.





# FRESENIUS

Two leading European hospital companies – the German company Helios, which belongs to Fresenius, and the Spanish company Quirónsalud – have now joined to form Europe's number-one health operator, and one of the world's leading hospital groups. Together, the newly formed group will encompass more than 100,000 employees who shall manage working in a total of 155 health centers.

Founded in 1912, Fresenius is the largest European healthcare group, with more than 220,000 employees in 100 countries.



# OUR VALUES AND BRAND

## WHAT MAKES US UNIQUE

All Quirónsalud health centers share the company's values of clinical excellence, cutting-edge technology, commitment to innovation and research and personalized treatment for patients and their families.

Our values make us unique, and they build and reinforce our identity.

The work of our professionals reflects our claim to excellence: health person by person.

Our philosophy, Care & Caring, is a CPD-based program in which all staff learn our way of treating patients, providing them care that is more humane, patient-centered and approachable.



# THE VALUE OF A STRONG BRAND WITH SOMETHING NEW AND BIG TO SAY

In 2014, the company took on the great challenge of creating a new corporate identity, bringing together the prestige and quality guarantee of all the individual brands that previously coexisted within the group. The Quirónsalud brand was born.

Aside from a new name, a new symbol, and a new identity, Quirónsalud was founded with a unique promise of closeness and concern for patients' well-being. That is what we mean by health person by person. A promise that is intricately linked to our group-wide values, and one that goes beyond the concept of individualized medicine.



A stethoscope with a dark blue tube and a silver chest piece is positioned on the left side of the image. To its right is a white tablet. The tablet screen displays a green background with a white DNA double helix running vertically. To the left of the helix are several icons: an envelope, a heart rate monitor, a bicycle, an apple, a heart with a pulse line, a heart with a pulse line inside a circle, and a person running. To the right of the helix are the chemical structures and names of three nitrogenous bases: Cytosine, Guanine, and Adenine.

## 1. THE QUIRÓNSALUD GROUP

Guided by this new philosophy, we have worked hard on our group's rebranding effort, on creating new materials to support communications, advertising, and merchandising in all our health centers, launching new initiatives that transmit this new positioning of proximity to patients and closeness to individuals.

We launched our blog, called *Your health channel*, with which we offer patients information of interest and tips for healthy living.

We established our group's presence on Twitter, Facebook, YouTube and LinkedIn, leveraging these outlets to keep patients better informed and to better engage stakeholders.

We carried out strategic marketing campaigns to shine a spotlight on our health centers, services and medical specialties, executing special initiatives to be more in touch with patients and their friends and families.

# BROAD NETWORK OF HEALTH CENTERS AND MEDICAL SPECIALTIES

44 HOSPITALS THROUGHOUT 13 REGIONS IN SPAIN, AND INTERNATIONAL PRESENCE



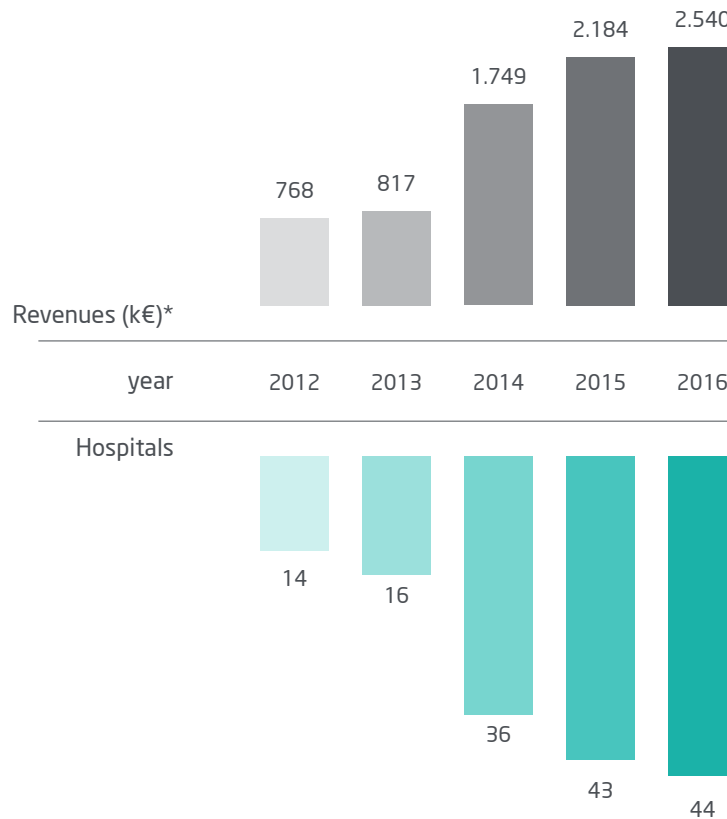
# OUR HEALTHCARE NETWORK ACTIVITY DATA (2017)

Year after year Quirónsalud has experienced an increase in activity and has expanded its catalogue of services to provide comprehensive healthcare.

	SPAIN	PERÚ	TOTAL
Discharges	343.060	10.247	353.307
ALOS	4,23	5,03	4,25
Outpatient consultations	8.135.435	492.219	8.627.654
ER cases	2.506.953	104.843	2.611.796
% of ER cases subsequently admitted	6,12%	5,16%	6,10%
Surgeries	386.915	18.403	405.318
Deliveries/C-sections	32.674	820	33.494

# COMING TOGETHER

## PERFORMANCE



The merger has had a remarkable impact on the group's positioning within the private health-care market.

2016 consolidated revenues increased by 2.54 million euros.

Substantial investments in our care network were made throughout 2016, both adding new facilities and making improvements to existing ones.

These investments (80 M€) were made both to build and acquire new health centers as well as update high-tech equipment and improve hospital facilities.

# PARTNERING WITH THE PUBLIC HEALTH SYSTEM

THE FINEST WE HAVE TO OFFER, AT THE SERVICE OF EVERYONE

Outstanding results in the public hospitals managed by the group in the Madrid region:

- In 2016, the Fundación Jiménez Díaz was the top-rated hospital within its complexity group, with an overall satisfaction index of 94%.
- For its part, Hospital Universitario Rey Juan Carlos in Móstoles was top in its group.
- Hospital General de Villalba and Hospital Universitario Infanta Elena in Valdemoro earned the first and second positions, respectively.



*\* 2016 satisfaction survey of users of the Madrid region public health services.*







②

# Research, innovation and quality



# MAKING THE MOST OF STATE-OF-THE-ART TECHNOLOGY

**Quirónsalud** currently features:

- 5 Da-Vinci robotic surgery systems
- 1 Gamma Knife radiosurgery system
- 1 CyberKnife radiosurgery system
- 21 linear accelerator systems for radiotherapy
- 11 PET-CT scanners
- 81 MRIs

# PATIENT PORTAL: YOUR HEALTH ONLINE

The Patient Portal is the easiest, most convenient way for patients to manage their health. The Patient Portal gives quick and simple access to all health-related information, at any time and from any device.

Using the Patient Portal gives you can:

- Gain access quickly, securely, and confidentially.
- Schedule or view upcoming appointments.
- Track your main health-related information and indicators.
- Access clinical reports and view test results.
- Communicate with nurses and physicians in a new day.

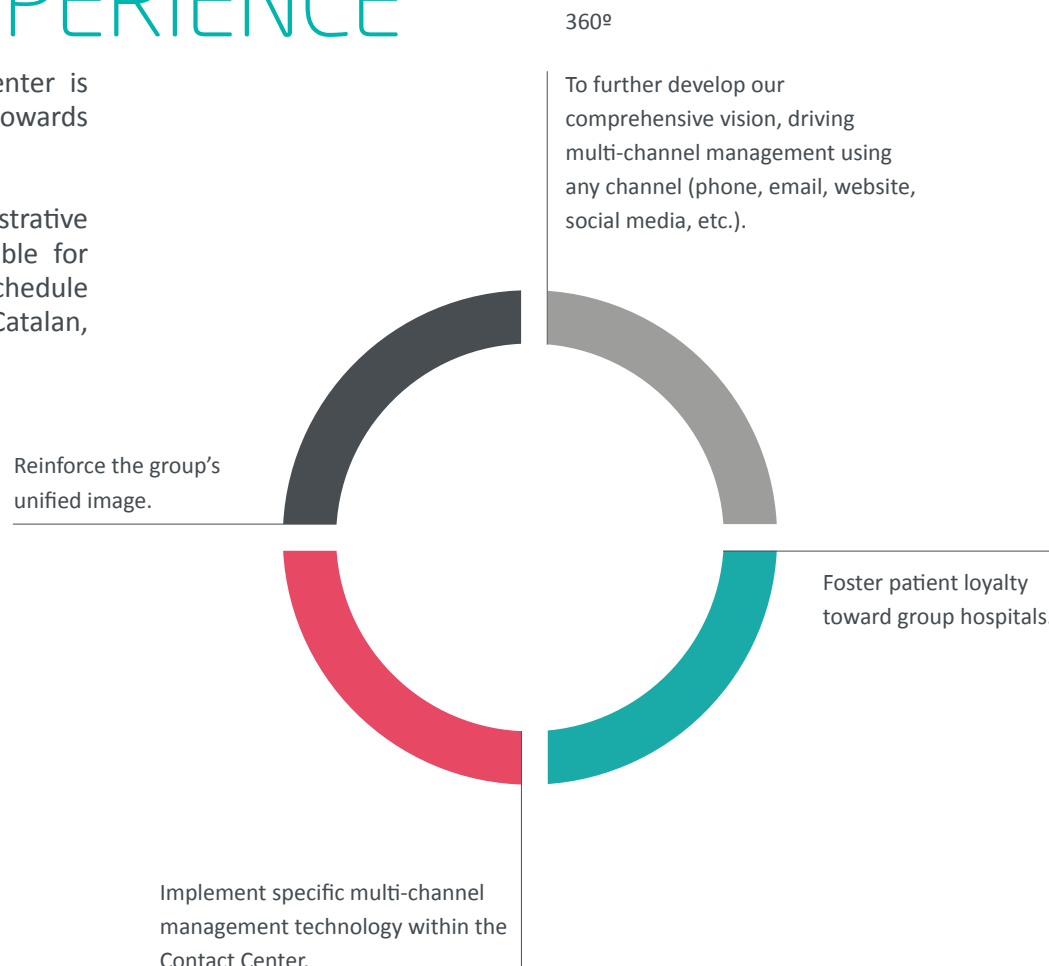


# CONTACT CENTER. CUSTOMER EXPERIENCE

The launch of our new corporate contact center is a priority within our strategy and a means towards increased excellence in customer satisfaction.

Multi-channel care: Our multilingual administrative staff in Barcelona and Madrid make it possible for patients located in any part of the country to schedule appointments in their own language (Spanish, Catalan, English and German).

Our short-term mission:





# OUR CONSTANT SEARCH FOR ANSWERS

**By pursuing scientific research,** our group has been behind some of the most significant advances in medical science in the country:

- First-ever placement of coils in Spain for treatment of severe pulmonary emphysema.
- Identification of seven biomarkers for early detection of chronic kidney disease.
- First non-invasive test for early detection of endometrial cancer.
- First operation to treat pancreatic cancer using Google Glass.
- Incorporation of the first 3-D robotic laparoscopy in Europe.
- Organ and tissue extraction for transplants.

# OUR GREAT RESEARCH POTENTIAL

Giving patients access to the latest in innovative treatment.

Clinical trials: 1001 research studies, of which 649 are clinical trials and 352 are epidemiological observational studies, with a total amount 1.224 research projects and 967 scientific publications.

R&D initiatives taking place in virtually all regions where the company is present.

Hospital Universitario Fundación Jiménez Díaz and its Health Research Institute, the only ministry-certified institute of its kind in a privately managed health center in Spain.

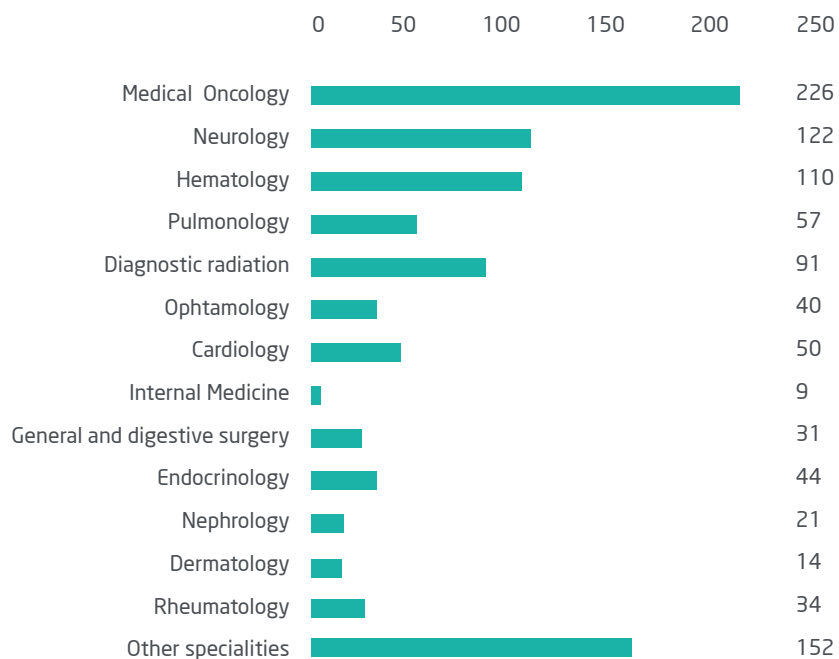
The group currently has seven university hospitals.

This makes Quirónsalud a point of reference within the private health sector.



# RESEARCH PROJECTS BY AREA

Number of research projects, clinical trials, post-authorization studies ongoing in 2016 and 2017, with a total increase of 1.2 in research projects and 1.64 in respect to publications.



# FIRM COMMITMENT TO CONTINUOUS IMPROVEMENT

We at the Quirónsalud Group believe that quality patient care means services that are:

- Accessible
- Safe
- Guided by effectiveness and convenience
- Efficient in their use of resources
- Satisfactory for patients and all other stakeholders

Annual targets and indicators are set for all of these parameters. Using perception surveys, Net Promoter Score, and “mystery” patients, we seek to understand patient expectations and satisfaction levels.

We strive for excellent management of health centers and excellent patient care.

Quality care makes for satisfied patients.









3

Talent development  
and corporate social  
responsibility

# MANAGING AND DEVELOPING TALENT

The human resources department upholds the values and beliefs established in the group's mission, vision, and values to build the greatest team of employees in all of the Spanish health-care system.

The department consists of geographic subdivisions that receive support from three different corporate-level departments:



The department has created a system for performance review as part of the Corporate Talent Plan.

A talent pool is maintained as a source of in-house talent in case key positions in the company need replacement.

The group not only looks to attract the finest professionals, but also fosters staff know-how and competencies once these employees are part of the company. This is the reason why the training procedure was unified.

## TALENT POOL

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MANAGEMENT REVIEW

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MANAGEMENT REVIEW CALENDAR  
ANNOUNCED

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HR ANNOUNCES REVIEWERS

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YEAR-END PERFORMANCE REVIEW  
RESULTS

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EVALUATORS REVIEW THEIR STAFF

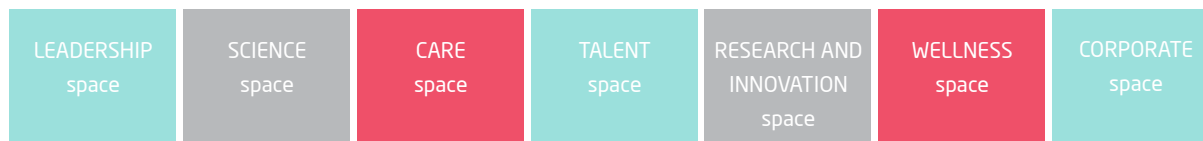
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# DEVELOPING HUMAN CAPITAL. QUIRÓNSALUD CAMPUS

The mission of the Quirónsalud Campus is to provide a strategic tool that is geared toward attaining company-wide goals. This happens thanks to activities that foment individual and organizational learning.

## STRUCTURE

The campus is divided into seven different spaces:



Each space is sponsored by a member of the corporate management committee and has a designated advisory committee made up of field experts. Specific training programs are implemented within each.

In addition, Quirónsalud's collaboration agreements with some of the most prestigious business schools and universities have set up interdisciplinary higher-learning programs.

# PROMOTING COLLABORATIVE GROWTH

We at Quirónsalud wish to play an active role in bringing about the kind of change our society demands in terms of social, ethical, and sustainability-related issues, as doing so will add value.

Our CSR model is rooted in the collaborative growth approach.

2016–2018 Next CSR Plan: Promote and inhabit this cross-cutting and transformational business mentality, committing to building a more fair, sustainable, and solidary society.

The Quirónsalud Foundation was created to become a point of reference for health and healthy living. The foundation works along three lines of action: promoting research and innovation, social action, and education and training that is aimed at patients and society at large.



# COMMITMENT TO EXTERNAL INITIATIVES PARTNERSHIP

Some of the most noteworthy collaboration agreements with international organizations include:

- An agreement with the WHO: Studies on public-private partnership in the health-care industry.
- Commitment to the UN Global Compact.
- We are members of the Spanish Association of Foundations (AEF).
- Members of the Board of Governors of the Spanish Responsible Society and Business (SERES) Foundation.
- Members of the FORÉTICA ethical business forum.
- Continuous and fluid dialog with stakeholders (Fundación Prevent, Ilunion, Apunts, Fundación Natura Bissé, among others).
- Solid relationship with the Spanish Association against Cancer.







4

An international  
hospital group

## 4. AN INTERNATIONAL HOSPITAL GROUP

# OPEN TO THE WORLD

We are Spain's largest hospital group and the third biggest in Europe. Internationally renowned health centers staffed by world-class medical professionals.

Catering to foreign patients:

- Cutting-edge medical technology used to provide personalized diagnoses and treatments that adapt to patients' every need.
- A portfolio of services spanning all of the most widely demanded medical and surgical specialties by patients coming to us from other countries.
- Super-specialized health services that form a multi-center network.

International patients' care is channeled through the International Patient Service. This service is staffed by a team of multilingual advisors (case managers) from other countries who personally and exclusively handle each individual international patient.





# INTERNATIONAL AWARDS



*Hospital Quirónsalud Torrevieja, Best International Hospital Award*

Hospital Quirónsalud Torrevieja was awarded with the Best International Hospital prize, earning “highly recommended”, status by the 2017 Medical Travel Awards, an initiative of the International Medical Travel Journal.

Agreements with more than 500 international insurance companies

Hospitals with specific departments for international patients:

- Centro Médico Teknon · Grupo Quirónsalud
- Hospital Ruber Juan Bravo · Grupo Quirónsalud
- Hospital Ruber Internacional · Grupo Quirónsalud
- Hospital Universitario Quirónsalud Madrid
- Hospital Quirónsalud Barcelona



## CALL SERVICE 24 HOURS A DAY, 365 DAYS A YEAR

Quirónsalud now offers G24 on-call service, providing language support to help international patients with administrative procedures and speed up service.

As of our first contact with you, we watch over your needs and offer you personalized solutions.

## BRAND NEW 24/7 ON-CALL SERVICE

We offer comprehensive service within Spain 24/hours a day, 7 days a week through our telephone helpline.

## NUMBER-ONE HOSPITAL GROUP

We are Spain's leading hospital group and the third largest in Europe. Our group has more than 90 hospitals and other health facilities, covering all medical specialties, emergency services and the like.



## SIMPLIFIED ADMINISTRATION PROCESS

Having a centralized information point enables us to provide a coordinated response and a speedy service with simplified procedures. As a result, we make administrative procedures related to appointment scheduling and admission easier for you.

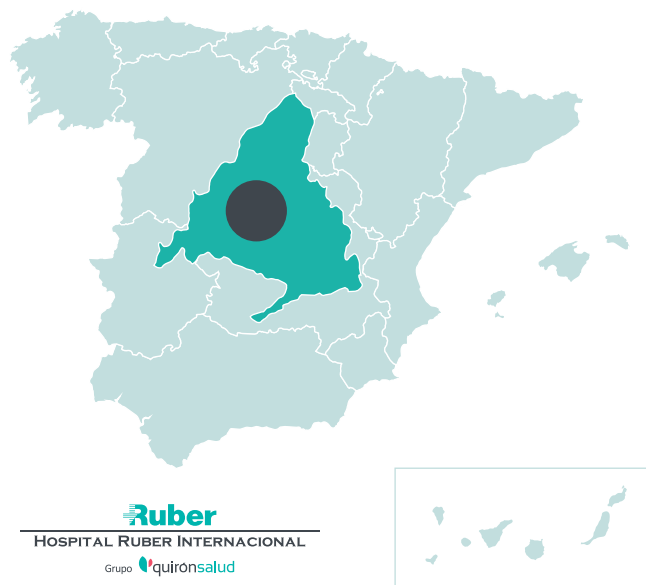




5

# Reference hospitals

## 5. REFERENCE HOSPITALS



C/ La Masó, 38 - 28034 Madrid

### HOSPITAL RUBER INTERNACIONAL · GRUPO QUIRÓNSALUD



Ruber International is a full-service hospital, featuring central services, speciality-specific medical-surgical units and associate doctors.

- 144 consultation rooms
- 165 rooms (4 royal suites and 39 suites)
- 13 ICU stations for adults
- 10 NICU stations
- 13 emergency cubicles
- 23 ORs, 3 of which are integrated
- da-Vinci robotic surgery
- 3 endoscopy suites
- 3 delivery rooms
- Day hospital for cancer patients with 10 stations
- Day hospital for cancer patients with 16 stations
- Nuclear medicine
- Diagnostic imaging
- Ozone therapy
- Excimer laser (refractive eye surgery)

## HOSPITAL UNIVERSITARIO QUIRÓNSALUD MADRID

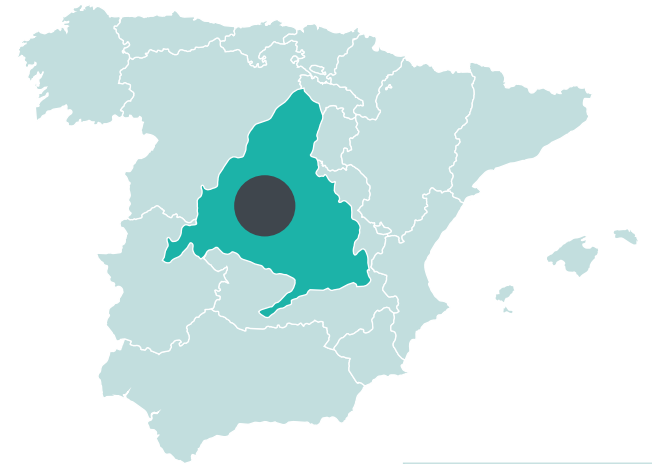


Quirónsalud Madrid has become a point of reference for medical oncology, radiation oncology, hematology and for treating tumors corresponding to any medical specialty (orthopedics, neurology, gynecology, dermatology).

The center also stands out for excellence in heart surgery, neurosurgery, pediatrics, gynecology, neurology, ENT and pulmonology.

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83 outpatient consultation rooms  
190 individual rooms (24 isolation rooms)  
57 suites  
14 ICU stations for adults  
19 ICU stations for children  
15 ORs  
da-Vinci robotic surgery  
2 delivery rooms

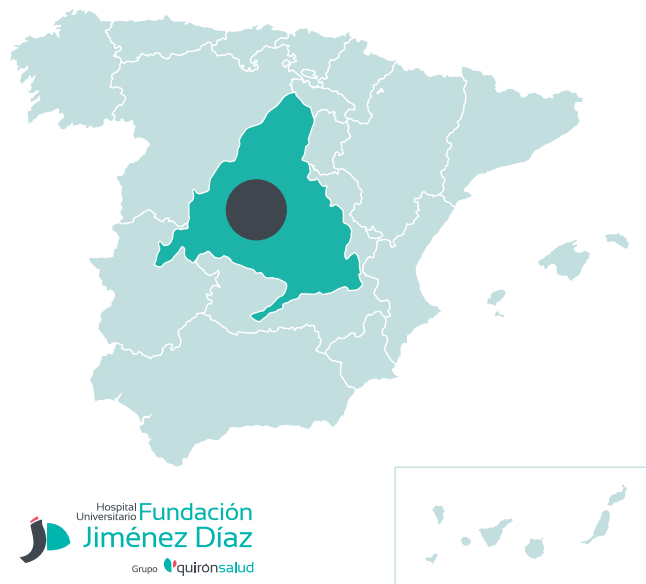


Hospital Universitario  
**quirónsalud**  
Madrid



C/ Diego de Velázquez, 1 - 28223 Pozuelo de Alarcón (Madrid)

## 5. REFERENCE HOSPITALS



Avda. Reyes Católicos, 2 28040 Madrid

### HOSPITAL UNIVERSITARIO FUNDACIÓN JIMÉNEZ DÍAZ · GRUPO QUIRÓNSALUD



One of the main hospitals in Spain due to its high-level complexity and excellency of its professionals.

Outpatient department.  
Major outpatient surgery  
11 central operating rooms  
3 operating rooms for MOS  
6 delivery rooms  
686 beds  
ER  
Pediatric ER  
Outpatient examination rooms

## CENTRO MÉDICO TEKNON · GRUPO QUIRÓNSALUD



Centro Médico Teknon provides cutting-edge care in several medical fields and handles high complexity cases with utmost quality.

230 individual rooms with views

ICU with 14 stations

NICU with 14 stations

21 ORs, 2 of which feature an excimer laser, 3 for OBGYN, and 7 for major outpatient surgery

Day hospital for cancer patients with 31 stations

ER

Nuclear medicine (PET-CT, radiotherapy (2 linear accelerators), gamma camera)

ART labs, clinical testing, and pathology

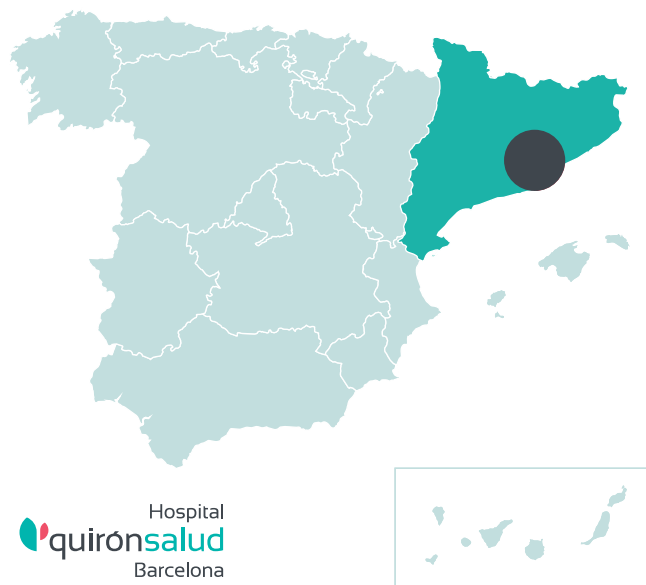


  
CENTRO MÉDICO TEKNON  
Grupo  quirónsalud



C/ Vilana, 12 - 08022 Barcelona

## 5. REFERENCE HOSPITALS



Plaza Alfonso Comín, 5 - 08023 Barcelona

### HOSPITAL QUIRÓNSALUD BARCELONA



This hospital has advanced technological equipment for diagnosis and treatment, and practices top-notch remote medicine: smart ORs, state-of-the-art scanner.

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- 144 consultation rooms
- 165 rooms (4 royal suites and 39 suites)
- 13 ICU stations for adults
- 10 NICU stations
- 13 emergency cubicles
- 23 ORs, 3 of which are integrated
- Da Vinci robotic surgery
- 3 endoscopy suites
- 3 delivery rooms
- Day hospital for cancer patients with 16 stations
- Nuclear medicine
- Diagnostic imaging
- Ozone therapy
- Excimer laser (refractive eye surgery)

## HOSPITAL UNIVERSITARI DEXEUS · GRUPO QUIRÓNSALUD



Also known as the 'Hospital of Knowledge', it is an industry leader in many of its specialties, and one of the first private university centers in Spain.

50,000 m2 of building space

153 rooms

4 Plus suites

10 ORs

Obstetrics area

Endoscopy area

Adult ICU

Neonatal ICU

Emergency area

Outpatient surgery

Outpatient oncology

Assisted reproduction unit

Clinical testing laboratory

Pathology laboratory

130 examination rooms

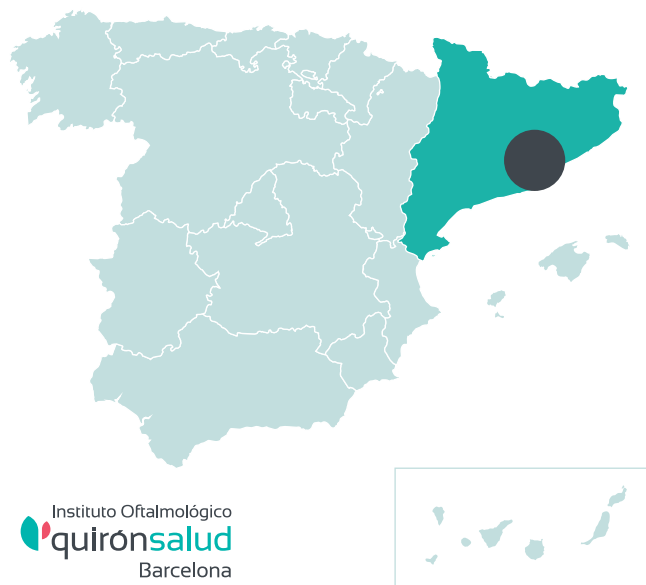


Hospital  
Universitari  
**Dexeus**  
Grupo **quirónsalud**



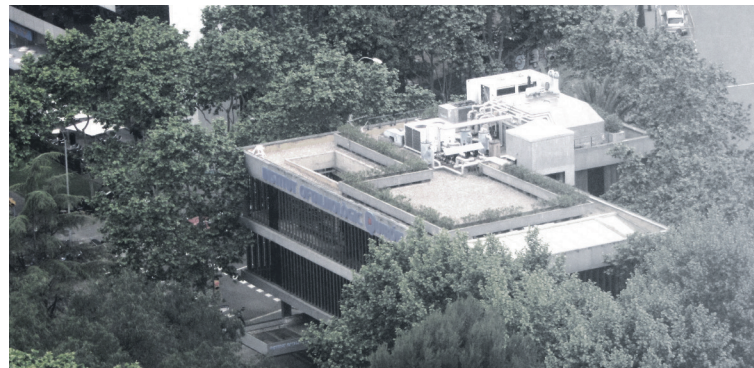
Calle Sabino Arana, 5-19, 08028 Barcelona

## 5. REFERENCE HOSPITALS



Avenida Diagonal, 632 08017 Barcelona

### INSTITUTO OFTALMOLÓGICO QUIRÓNSALUD BARCELONA



A state-of-the-art facility focused on providing solutions to eye problems.

2 ORS	Capsulotomy
8 optometry rooms	Trabeculectomy
8 outpatient examination rooms	Retinal photocoagulation
ER	Photodynamic therapy
Sterilization room	Intravitreal injections
4 lasers	Eye surgery:
Fluorescein angiography	- Cataracts
Low vision	- Refractive surgery
Ocular ultrasound	- Corneal transplant
Computerized perimetry (visual field)	- Glaucoma
Corneal endothelium scanning	- Retina
Corneal topography and Orbscan	- Strabismus
GDx	- Oculoplastic and lacrimal ducts
HRT II	- Ocular trauma
Optical coherence tomography (OCT)	
Laser treatments	
Iridotomy	

## HOSPITAL QUIRÓNSALUD MARBELLA



Specializing in international patients.

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- 66 individual rooms
- ICU with 6 stations
- 5 ORs
- 1 delivery room
- Surgical neuronavigation system
- ER
- Labs, clinical testing, and pathology



Hospital  
**quirónsalud**  
Marbella

Avenida Severo Ochoa, 22 - 28603 Marbella

## 5. REFERENCE HOSPITALS



Partida de la Loma, s/n - 03184 Torrevieja

### HOSPITAL QUIRÓNSALUD TORREVIEJA



An internationally renowned private hospital in the field of oncology, delivering care for a great many foreign patients.

31 outpatient examination rooms

57 rooms (8 suites and Grand Suites)

12 ICU stations for adults

Endoscopy rooms

Day hospital for cancer patients with 30 stations

Day hospital for cancer patients with 10 stations

6 ORs

- 1 for excimer laser

Nuclear medicine

- PET-CT scanner

Diagnostic imaging

- Ultrasound scanner

- Mammography scanner

- Digital remote control x-ray system

- Bone densitometer

- Conventional radiology

- Interventional radiology

- MRI

- CT scanner

- Orthopantomography







6

International  
care excellence



# INTERNATIONAL CARE EXCELLENCE

We are proud to have the most prestigious specialists in the country within each field of specialty, thanks to our hospital network and programs of internal and external training, where staff share their knowledge and know-how with all our professionals, regardless of their location. The following offers some examples of our medical excellence.

Quirónsalud has a multidisciplinary team of oncologists made up of experts in cancer of the breast, lung, and prostate, as well as colorectal cancer, endometrial cancer, kidney cancer, neuroendocrine tumors, and solid tumors.

We also have a strong radiation-therapy area for treatment of brain tumors, prostate cancer, lung cancer, and brachytherapy for breast cancer.

The company also invests heavily in research aimed at finding a cure for hematologic diseases such as leukemia, lymphomas, and myeloma.

Thanks to the excellence of our medical teams and high levels of investment in technology (e.g., brachytherapy, simulation for radiation therapy, tomotherapy, GammaKnife radiation therapy) we have successfully positioned ourselves at the forefront of cancer care, offering a number of pioneering treatments.

More accurate detection of sentinel nodes through a combination of (fluorescent) indocyanine green together with technetium 99 (radiotracer).

Application of pressurized intraperitoneal aerosol chemotherapy (PIPAC), an experimental surgical technique for treatment of peritoneal carcinomatosis.



### DR. JAVIER CORTÉS

**Hospital Ruber International · Grupo Quirónsalud**

*Head of the Breast Unit, Instituto Oncológico Baselga*

Medical oncology. Special training: breast cancer

International scientific associations:

ESMO – European Society of Medical Oncology.

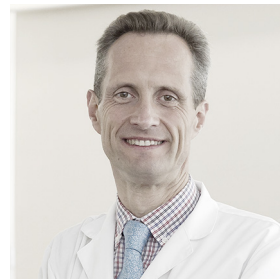
ASCO – American Society of Medical Oncology.

EORTC – European Organization for Research and Treatment of Cancer. Over 200 publications in journals, such as: the Lancet, the New England Journal of Medicine, the Annals of Oncology, the Journal of Clinical Oncology, and the Oncologist.

Title, journal, year of publication: Cortes J, Calvo E, Vivancos A, Perez-Garcia J, Recio JA, Seoane J. New Approach to Cancer Therapy Based on a Molecularly Defined Cancer Classification. CA Cancer J Clin. 2014 Jan;64(1):70-4 F.I.: 162,500. Swain SM, Baselga J, Kim SB, Ro J, Semiglazov V, Campone M, Ciruelos E, Ferrero JM, Scheneeweiss A, Heeson S, Clark E, Ross G, Benyunes MC, Cortes J. Pertuzumab, Trastuzumab, Docetaxel in HER2-Positive Metastatic Breast Cancer. New Eng J Med 2015 Feb 19;372(8):724-34 F.I.: 59,558.

Dr. Cortés participated in the following clinical trials that led to the development of targeted therapies in breast cancer: pertuzumab, everolimus, eribuline, bevacizumab, abemaciclib, buparlisib, lapatinib, nintedanib.

Languages: Spanish and English.



### DR. JESÚS GARCÍA-FONCILLAS LÓPEZ

**Hospital Universitario Fundación Jiménez Díaz · Grupo Quirónsalud**

*Director of the “OncoHealth” oncological institute of the department of oncology at Hospital Universitario Fundación Jiménez Díaz, and the Translational Oncology Division at Instituto de Investigación Sanitaria FJD-UAM. Degree in medicine from Zaragoza University*

Dr. García-Foncillas is a certified specialist in medical oncology and holds a PhD from the University of Navarra. Training at MD Anderson Cancer Center in Houston, Texas. Director of the oncology department and the Clinical Genetics Unit at the University of Navarra Clinic and the CIMA Pharmacogenetics Laboratory at the University of Navarra.

Areas of specialization: application of basic research in the clinical field in cancer treatment and diagnosis and the search for prognostic and predictive biomarkers.

Positions: Secretary of the ASEICA, Co-Coordinator of Genomics and Proteomics of the Cancer Center Network at the Carlos III Healthcare Institute, voting member of the board to the Hereditary Cancer Section of the SEOM, and the board of the Spanish Federation of Oncological Societies, member of the Royal Academic of Medicine of Zaragoza and an honorary member of the Mexican Oncology Society. President of the Mediterranean Oncology Society. Member of the board of trustees of the Health 2000 Foundations, founding trustee and secretary of the Permanent Commission of the ECO Foundation, member of the Biosequence International Advisory Committee. Vice-President of the National Medical Oncology Commission of the Specializations Board at the Ministry for Health and Consumer Affairs from 2007 to 2014. Publications: over 170 articles (Pubmed-indexed) and many books on his fields of specialization.



**DR. JAVIER HORNEDO**

**Hospital Universitario Quirónsalud Madrid**

*Head of the medical oncology service*

Dr. Hornedo obtained a degree in medicine from Complutense University in Madrid, did his residency at Hospital Puerta de Hierro in Madrid, and completed his studies with a fellowship at Maryland University in Baltimore (United States).

In the past few years, he has worked as staff physician for the medical oncology service at Hospital 12 de Octubre, acted as head of medical oncology at the Hospital General de Cataluña in San Cugat del Vallés and as head of the Breast Unit at Hospital MD Anderson in Madrid.

He is currently the associate head of the Integral Oncology Unit at Hospital Universitario Quirónsalud Madrid.

Languages: Spanish and English.



**DR. RAFAEL ROSELL**

**Hospital Universitari Dexeus · Grupo Quirónsalud**

*Medical director and president of the Instituto Oncológico*

Dr. Rosell is a specialist in medical oncology, with advanced training in lung cancer (non-small cell lung cancer). In 1982, he completed his residency at Memorial Sloan-Kettering Cancer Center, in New York, under Dr R. Gralla, Dept. of medicine (developmental chemotherapy). Memberships in International scientific associations: European Society for Medical Oncology (ESMO).

American Society of Clinical Oncology (ASCO).

International Association for the Study of Lung Cancer (IASLC).

European Organization for Research and Treatment of Cancer

(EORTC). Spanish Lung Cancer Group (President, 1991-2014).

No. of publications in first-quartile International journals , 3,200 total publications in the 1st quartile (over 40 years of practice). The 2 most important, for which Dr Rosell was the main author, are: "Erlotinib versus chemotherapy as first-line treatment for European patients with advanced EGFR mutation-positive non-small-cell lung cancer (EORTAC): a multicentre, open-label, randomised phase 3 trial" Lancet Oncology 2012 Mar;13(3):239-246. Screening for epidermal growth factor receptor mutations in lung cancer. N Engl J Med. 2009 Sep 3;361(10):958-67. doi: 10.1056/NEJMoa0904554

No. of patents (participated in securing): 18.



DR. JOSEP TABERNEO

**Hospital Quirónsalud Barcelona**

*Head of the Gastrointestinal and Endocrine Cancers Unit, Instituto Oncológico Basalga*

Medical specialisation: medical oncology.

Area of special training: GI and endocrine tumors. Membership in International scientific associations.

ESMO – European Society for Medical Oncology. President elect, 2018-2019. ASCO – American Society of Medical Oncology. AACR – American Association for Cancer Research. ECCO – European Cancer Organization. EORTC – European Organization for Research and Treatment of Cancer. No. of publications in International journals. Over 250 publications in journals, including: the Lancet, the New England Journal of Medicine, the Annals of Oncology, the Journal Clinical Oncology, the Oncologist, Cancer Chemotherapy Pharmacology, Nature, etc. Dynamic Molecular Analysis and Clinical Correlates of Tumor Evolution Within a Phase 2 Trial of Panitumumab-Based Therapy in Metastatic Colorectal Cancer. Siena S, Sartore-Bianchi A, Garcia-Carbonero R, Karthaus M, Smith D, Tabernero J, Van Cutsem E, Guan X, Boedigheimer M, Ang A, Twomey B, Bach BA, Jung AS, Bardelli A. Ann Oncol. 2017 Sep 4. doi: 10.1093/annonc/mdx504 Cancer: A precision approach to tumour treatment. Dienstmann R, Tabernero J. Nature. 2017 Aug 3;548(7665):40-41. doi: 10.1038/nature23101.

He has participated in the clinical trials that led to the development medications, including: panitumumab, cetuximab, aflibercept, regorafenib and ramucirumab. Tas102

Languages: Spanish, Catalan and English.



DR. JOSÉ MARÍA FERNÁNDEZ RAÑADA

**Hospital Universitario Quirónsalud Madrid**

*Head of the hematology and hemotherapy service*

With a doctorate in medicine and surgery from the Autonomous University of Madrid, and a specialization in hematology and hemotherapy from the Fundación Jiménez Díaz (Madrid), he has been staff physician and medical director of hematology and hemotherapy at the following hospitals in Madrid: Hospital 12 de Octubre, Hospital Universitario de la Princesa and Hospital Ruber Internacional. He has been head of the hematology and hemotherapy service at Hospital Universitario Quirónsalud Madrid since 2006.

Dr. Fernández is a pioneer and national leader in bone marrow transplant, and is the president of the National Transplant Commission an advisory body in hematopoietic transplantation for the Spanish Health Ministry.

His awards include, the Commendation of the Civil Order for Health and he is the president of the National Medical Specialties Commission, specifically for hematology and hemotherapy.

Languages: Spanish and English.



DR. CARMEN MARTÍNEZ CHAMORRO

**Hospital Universitario Quirónsalud Madrid**

*Assistant head of the hematology and hemotherapy service*

Dr. Martínez holds a degree in medicine and surgery from the Medical Faculty of the University of Valladolid after having earned the award for outstanding performance during her bachelor's degree and the Third National Award for Academic Excellence in Medicine and Surgery. She trained as a specialist in hematology and hemotherapy under Dr. Fernández Rañada at Hospital Universitario de La Princesa de Madrid. She holds a doctorate in medicine and surgery from the Autonomous University of Madrid, and is a professor at the Faculty of Medicine of the Universidad Europea de Madrid.

She headed the Clinical Hematology and Haematopoietic Transplant Unit at Hospital Ruber in Madrid from February 1997 to 2007, after which she became chief of the clinical hematology and hematopoietic transplantation department at Hospital Universitario Quirónsalud Madrid. She is the author of over 20 articles published in international and national journals, has given over 60 presentations at international and national conferences, and has authored 10 book chapters. She has spoken at numerous specialist congresses and other academic events. She has participated in over 15 clinical trials as a researcher, acting as principal investigator in 9. She is a member of the Clinical Trials Committee at Hospital Universitario de Quirónsalud Madrid. Languages: Spanish and English.



DR. ELIA DEL CERRO PEÑALVER

**Hospital Universitario Quirónsalud Madrid**

*Head of the radiotherapy oncology service*

Dr. del Cerro obtained her degree in medicine and surgery from the Autonomous University of Madrid in 1990. Specializing in radiotherapy oncology during her residency in internal medicine in 1994, later completing her residency training at Hospital Universitario de La Princesa in Madrid.

She continued her training at Hospital Princess Margaret in Toronto (Canada), and MD Anderson Cancer in Houston (University of Texas, United States).

Dr. del Cerro was one of the first oncologists in Spain to use practices in radiation therapy that have now become routine techniques, such as high-dose-rate brachytherapy, intensity modulated radiotherapy, and in the use of stereotaxis systems, both for the brain and the body. She has a wealth of experience in the treatment of patients with prostate cancer, ENT cancers, and women with gynecologic cancers, for which she employs cutting-edge technologies, specifically with IMRT, having used both sliding windows and step and shoot for this intensity modulation technique.

Languages: Spanish and English.



DR. RAIMÓN MIRALBELL

**Centro Médico Teknon · Grupo Quirónsalud**

*Director of the radiation oncology service, Teknon Oncology Institute, at Centro Médico Teknon*

Medical specialization: radiotherapy oncology. Special training Area: uro-genital cancer (prostate), breast cancer, high technology and proton therapy.

Residencies at foreign institutions: Geneva University Hospital, Switzerland since 1991 (head of the radiation oncology department since April 2006; professor at the Faculty of Medicine of Geneva University since April 2007).

Massachusetts General Hospital and Harvard Cyclotron, Boston/Cambridge, MA. Clinical and research fellow (1987, 1988, 1989)

Royal Marsden Hospital, Sutton, Surrey, UK. Clinical Fellow 1983

Membership in International scientific associations and, when appropriate, positions held: American Society of Therapeutic Radiology and Oncology. European Society of Therapeutic Radiology and Oncology. Swiss Association of Scientific Radiation Oncology. Swiss Society of Radiation Oncology.

No. of publications: 150 articles in international journals.

Languages: Spanish, Catalan, English, French, German, and Italian.



DR. AURORA RODRÍGUEZ

**Hospital Ruber Internacional · Grupo Quirónsalud**

*Head of the Radiation Oncology Unit*

Medical specialty: radiation oncology

Special areas of training: breast, lung and prostate cancer. Special techniques: volumetric IMRT, stereotaxic brain and body radiosurgery and radiation therapy (SRS, SBRT, SART).

Stays at foreign centers: Institut Curie. Paris (France). June 2009.

Centre de Protonthérapie d'Orsay. Paris (France). May 2009. Hospital d'Instruction des Armées (HIA) Val de Grâce. Paris (France). April 2009.

Membership in international scientific societies:

SEOR (Spanish Society for Oncology and Radiotherapy). Position: Secretary General; since June 2017.

GICOR (Radiation Oncology Clinical Research Group).

Position: member of the governing council, from 2015 to present. IAEA (International Atomic Energy Agency): Member of the imPACT mission as an expert in cancer treatment; held in Togo in September 2017.

Publications in first quartile international journals as ranked by impact factor (2016 and the present): Five publications in scientific journals.

Accepted and pending publication:

Pedro Lara, Aurora Rodríguez, Carlos Ferrer et al. The Spanish Society for Oncology and Radiotherapy (SEOR) Awareness Campaign and Results. Int J Radiation Oncol Biol Phys. 2017. Epub ahead of print.

Aurora Rodríguez, Manel Algara, Diana Monge et al. Infrastructure and equipment for radiation oncology in the Spanish National Health System: analysis of external beam radiotherapy 2015-2020. Clin Transl Oncol 2017. Epub ahead of print.

Languages: English and French.

Quirónsalud excels in angiology and vascular surgery (venous insufficiency and interventional cardiology) as well as cardiology (major cardiovascular events, heart failure, hypertension, cardiovascular risk, stroke, and myocardial pathology). Milestones in this area include navigation for complex arrhythmia diagnosis and treatment, customized aorta replacement (from heart to legs, following an aneurysm of the aorta), pectus excavatum treatment using the novel taulinoplastia technique, and the first case of combined transcatheter aortic valve and prosthesis placement in the abdominal aorta. These advances place Quirónsalud at the head of medical innovation in the field.



DR. JOSEP BRUGADA

**Hospital El Pilar · Centre Cardiovascular Sant Jordi · Grupo Quirónsalud / Centro Médico Teknon · Grupo Quirónsalud**  
*Cardiologist, specialist in arrhythmias and sudden death*

Residencies at foreign institutions:

Bordeaux Hospital, France, 1999-2000. Limburg University Hospital, Maastricht, Netherlands, 1987-1991. Saint Eloi University Hospital; Montpellier, France, 1983-1987

Membership in international scientific associations:

President of the European Heart Rhythm Association (EHRA) from 2006 to 2008. Member of the Board, European Society of Cardiology, 2008-2009. Member of the International Advisory Board of the North American Society of Pacing and Electrophysiology (NASPE), 1998-2002

No. of publications in International journals:

486 publications in journals with an impact factor; total impact factor: 1,824; citations: 20,903; H-index: 68

Right Bundle Branch Block, persistent ST segment elevation in V1-V3 and sudden death. A new clinical syndrome. *J Am Coll Cardiol*, 1992, over 3,000 citations in field-related literature.

Genetic basis and molecular mechanisms for idiopathic ventricular fibrillation. *NATURE* 1998, over 1,500 citations in field-related literature.

No. of patents: 3.



**DR. JOSÉ ÁNGEL CABRERA RODRÍGUEZ**

**Hospital Universitario Quirónsalud de Madrid**

*Head of the cardiology service*

Doctor (*cum laude*) in medicine and surgery from the University of Granada, he holds a master's degree in medical administration and clinical management from the Spanish National Distance Education University. He has been the assistant head of the arrhythmia unit and director of the electrophysiology laboratory of the Fundación Jiménez Díaz and director of the arrhythmia unit of the cardiology service at Hospital Nuestra Señora del Pino.

He is currently the head of the cardiology service at Hospital Universitario Quirónsalud Madrid, as well as Complejo Hospitalario Ruber Juan Bravo.

He is one of the leading figures in the treatment and research of arrhythmias and hemodynamics. He is currently a professor at Universidad Europea de Madrid.

Languages: Spanish and English.



**DR. JULIO CARBALLO**

**Hospital El Pilar · Centre Cardiovascular Sant Jordi · Grupo Quirónsalud**

**Centro Médico Teknon · Grupo Quirónsalud**

*Head of cardiology and the hemodynamics Unit*

Medical specialty: cardiology. Cardiologist certified by the Spanish Society of Cardiology to practice hemodynamics and interventional cardiology.

Over the past 18 years, he has performed more than 1,200 procedures annually in the field of diagnostic and therapeutic interventional cardiology, in both coronary and structural heart pathologies. Member of the Spanish Society of Cardiology, member of the Hemodynamics and Interventional Cardiology Section of the Spanish Society of Cardiology. Member of the European Society for Cardiology. 43 presentations at national and international conferences within his field of specialization, as well as 16 publications in national and international journals. Clinical Infectious Diseases. Impact Factor: 8.88:

TITLE: Clinical Outcome and Long-Term Prognosis of Late Prosthetic Valve Endocarditis: A 20-Year Experience. REF. JOURNAL/BOOK: Clinical Infectious Diseases, 24: 381-6 (1997). Pilar Tornos, Benito Almirante, Montserrat Olona, Gaietà Permanyer, Teresa González, Julio Carballo, Albert Pahissa, Jordi Soler Soler. Revista Española de Cardiología. Impact Factor: 4.48.

Joan Durana, Pilar Sánchez-Olavarríaab, Marina Molaac, Víctor Götzensa, Julio Carballo, Eva Martín-Pelegri nad, Màrius Petít d, Bruno García del Blancoe, David García-Doradoe, Josep M. de Antaa. Rev Esp Cardiol. 2014;67:552-7. - Vol. 67 Núm.07 DOI: 10.1016/j.revesp.2013.11.022 Languages: Spanish, Catalan and English.



**DR. GONZALO ALDÁMIZ- ECHEVARRÍA**

**Hospital Universitario Fundación Jiménez Díaz · Grupo Quirónsalud**

*Head of the cardiovascular surgery service*

Speciality: cardiovascular surgery. The Fundación Jimenez Díaz is one of the leading hospitals in cardiovascular surgery in Spain. Spain's first heart surgery was performed there in 1958, and after this the department has gathered a wealth of experience in the treatment of all cardiac pathologies in adults. Dr. Aldámiz-Echeverría has personally performed over 4,000 interventions, with particular focus on aortic pathology, valve repair and heart re-interventions. Medical associations: International Member of the Society of Thoracic Surgeons. Spanish Society for Thoracic and Cardiovascular Surgery, European Society for Cardio-Thoracic Surgery, Spanish Society of Cardiology and European Society of Cardiology. Honorary Professor, Faculty of Medicine Autonomous University of Madrid, Department of Surgery, from 2010 to the present.

Publications: 27 indexed. "Severe Right Atrial Compression by a Rapidly Growing Cardiac Mass" Angélica María Romero, MD; M. A. Navas, MD; Teresa Reina Duran, MD; Gonzalo Aldamiz Echevarría, MD; Angeles et al; Jerónimo Farré, PhD. CIRCULATION. 2015;131:429-431. "Patient-Prosthesis Mismatch in Patients Undergoing Bioprosthetic Aortic Valve Implantation..." Urso S, Calderón P, Sadaba R, Mahillo I, Tuñón J, Aldamiz G, Fraile J. J Card Surg. 2014 Apr 29.

"Intramural Hemangioma of the Left Ventricle; Accurate Noninvasive Diagnosis and Surgical Treatment" Heredero A., Tomas M.; Hernandez-Estefania R.; Calderon P.; Fernandez-Aceñero, MJ; Aldamiz-Echevarria G. Texas Heart Journal 2015.

Languages: English and French.



**DR. JOSÉ ENRIQUE RODRÍGUEZ HERNÁNDEZ**

**Hospital Ruber Internacional · Grupo Quirónsalud**

*Head of the heart surgery unit. Head of the heart surgery service*

Head of the heart surgery service - Hospital de La Zarzuela. Head of the cardiovascular surgery service - Hospital Clínico San Carlos since 2003 (on leave since the end of 2013). Fellow, special situation – experimental surgery - 1983. Assistant head of the cardiovascular and thoracic surgery service - Puerta De Hierro - 1983. Collaborator experimental and clinical development for the following special programs: cardiac arrhythmia surgery, heart and cardiopulmonary transplantation, nuclear medicine and cardiovascular surgery. Experimental and clinical training course on the management of the jarvik 7 total artificial heart - Hôpital de la Pitié, Paris. Section head – Hospital 12 de Octubre, heart surgery service from 1989 to 2003. Coordinator for the development of the heart transplantation program at Hospital 12 de Octubre. Co-leader for the development of the Circulatory Assistance and Artificial Heart Programme. Association memberships: Spanish Society of Thoracic and Cardiovascular Surgery, Spanish Society of Cardiology, Spanish Society of Experimental Surgery, International College of Angiology, International Society of Heart and Lung Transplantation.



#### DR. XAVIER RUYRA

##### **Centro Médico Teknon · Grupo Quirónsalud**

*Director of the heart surgery program at Centro Médico Teknon · Grupo Quirónsalud and El Pilar Hospital/ Sant Jordi Cardio-vascular Center and is head of the heart surgery service of the Trias y Pujol University Hospital of Badalona*

Dr. Ruyra obtained his medical degree and specialist training in European and American universities. He is one of the leading experts in use of using the Ross procedure for valve repair, which eliminates the need to replace valves with artificial prosthetics, and he is also an authority in reconstructive surgery of the heart chambers. He is a specialist in minimally invasive heart surgery and in bloodless heart surgery and has developed multiple surgical techniques that are minimally damaging to the patient's heart and body (coronary surgery with the heart beating, extracorporeal minicirculation devices, atrial fibrillation surgery, and bloodless heart surgery). He combines his work as a surgeon with teaching at the University of Barcelona where he is an Associate Cardiac Surgery. He has published 51 articles in specialist journals and 3 book chapters; he has also participated in many international conferences and seminars and has developed several patents for devices used for valve repair and reconstruction.

## TRAUMATOLOGY

Some of the major achievements of Quirónsalud specialists include surgery for total wrist replacement and use of AI and virtual reality for surgical procedures to correct bowleggedness. The Quirónsalud group has proven its excellence in areas such as orthopedic surgery and knee surgery and rheumatology (arthritis, regenerative medicine, osteoporosis, autoimmune diseases, and non-traumatic musculoskeletal diseases).



DR. ENRIC CÁ CERES

**Hospital Universitari Dexeus · Grupo Quirónsalud**

*Head of the Spine Unit at ICATME (Catalan Institute for Traumatology and Sports Medicine). Professor of orthopedic surgery and traumatology at the Autonomous University of Barcelona, Hospital de la Vall d'Hebron*

Medical Specialization: orthopaedic surgery and traumatology.

Special training: In Spine surgery.

5 residencies at foreign institutions: Associate Professor at the Department of Health Policy & Management, Johns Hopkins University. Baltimore, Maryland (USA), October 1, 2009-2012.

Membership in International Scientific Associations: President, EFORT (European Federation of National Associations of Orthopaedics and Traumatology) 2015-16. President, of the Spanish Society for Orthopedic Surgery and Traumatology, 2008-2010. President of the Catalan Society for Orthopaedic Surgery and Traumatology, 2006-2008. Member of the National Commission for the specialty 2008. December 2012. Member of the Medical Commission of the Barcelona Football Club.

Preferred research line: spinal column surgery (<http://orcid.org/0000-0001-7372-557X>). 317 publications. 115 articles: 61 international and indexed (Impact factor: 142.32 / H. factor: 13) and 54 articles in national journals. 69 books.

Languages: Spanish, Catalan, and English.



DR. JOAQUIM CASAÑAS

**Centro Médico Teknon · Grupo Quirónsalud**

*Director of the trauma unit group*

Specialist in orthopaedic surgery and traumatology. Doctor of medicine and surgery. Special training: European Diploma in Hand Surgery, European Professor of Arthroscopic Wrist Surgery, head of the Health Ministry's CSUR Excellence Program on Brachial Plexus and Peripheral Nerve Surgery. Residencies at Foreign Institutions: Mayo Clinic, Rochester, MN, Hôpital Avicenne, Paris, Hôpital Bichat-Claude-Bernard, Paris. Vice-President and President of the Spanish Hand surgery Society. Member of the American Society for Surgery of the Hand (ASSH).

Member of the American Society for Peripheral Nerve. Member of the Federation of European Societies for Surgery of the Hand (FESSH). He has written over 25 publications and 14 book chapters. Suprascapular intraneural ganglia and glenohumeral joint connections. Spinner RJ, Amrami KK, Kliot M, Johnston SP, Casañas J. J Neurosurg. 2006 Apr;104(4):551-7. Peripheral nerve regeneration after experimental section in ovine radial and tibial nerves using synthetic nerve grafts, including expanded bone marrow mesenchymal cells: morphological and neurophysiological results. Casañas J, de la Torre J, Soler F, García F, Rodellar C, Pumarola M, Climent J, Soler R, Orozco L. Injury. 2014 Oct;45 Suppl 4:S2-6. doi: 10.1016/S0020-1383(14)70003-8.

He has participated in securing 2 patents: consultant and patent team member for Conmed America. Consultant for Axogen Inc.

Languages: Spanish, English and French.



DR. RAMÓN CUGAT

**Hospital Quirónsalud Barcelona**

*Co-director of the department of orthopaedic surgery and traumatology at Hospital Quirónsalud Barcelona*

Medical Specialization: orthopaedic surgery and traumatology. Special training: arthroscopy, biologic therapies, sports medicine.

Residencies at foreign institutions, from most to least recent to:

1980, Sports Medicine Unit of Massachusetts General Hospital, Harvard University, in Boston (USA).

Membership in international scientific associations and positions held: ISAKOS - Chair of the Archives Committee - Board of Directors, RAED - member, AAOS.

No. of publications in international journals: 200. Prevention of non-contact anterior cruciate ligament injuries in soccer players. Part 1: Mechanisms of injury and underlying risk factors. Infiltration of plasma rich in growth factors for osteoarthritis of the knee short-term effects on function and quality of life.

No. of patents: 1.

Languages: Spanish, Catalan, and English.



DR. MARIANO DE PRADO

**Hospital Ruber Internacional · Grupo Quirónsalud**

Degree in Medicine and Surgery from the University of Murcia. Specialist degree in orthopaedic surgery and traumatology from Hospital Gregorio Marañón (Madrid). Doctorate in Medicine and Surgery from Bologna University (Italy). Traumatology team at Hospital Ruber Internacional.

Residencies at several international hospitals: Rizzoli Orthopaedic Institute (Bologna, Italy), Spokane Foot & Ankle Center (Washington, USA). Coeur d'Alene Surgical Foot & Ankle Center (Idaho, USA). Vice President of the Spanish Society for Foot and Ankle Medicine and Surgery.

European President of the AAFAS, for which he is also a Professor of Surgery. Author of the books *Cirugía Percutánea del Antepie* [Percutaneous Surgery of the Forefoot (2003)] and *Minimally Invasive Foot Surgery* (2009). Author of several chapters in different treatises and books within the field of specialization, and many scientific articles in national and international journals.

He has received many awards and scientific commendations, including: Fundación MAPFRE Award for the Development of Applied Orthopedic Surgery. Research Award of the Royal Academy of Medicine and Surgery of Murcia.



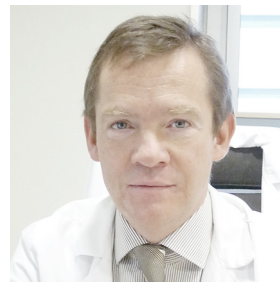
DR. PEDRO LUIS RIPOLL

**Hospital Ruber Internacional · Grupo Quirónsalud**

Holds a medical degree from the University of Murcia.

Specialist training in orthopaedic surgery and traumatology at Hospital Gregorio Marañón in Madrid, as head of the department under Doctor Francisco Vaquero González. Founding member of the Spanish Society for Arthroscopic Surgery.

He has obtained the society's annual award for best research paper published in its journal five times. He has been a member of the society's governing body several times. Founder and President of the Medical Association for Research and Development of the Musculoskeletal System Sciences. The foundation has received several national and international awards in the years since its creation, including: Fundación MAPFRE Award, ABC Award for medical research, Videomed Award, and the Hipócrates Award. And many social and scientific commendations. President and CEO of Ripoll y de Prado Sportclinic, a FIFA Medical Center of Excellence with offices in eastern Spain and Madrid. This institution has been recognized by the FIFA's governing medical body as one of the leading European institutions for the treatment of sports injuries. Author of several chapters and books within his specialization, as well as many scientific articles in national and international journals.



DR. JOSÉ TABUENCA

**Hospital Universitario Quirónsalud Madrid**

*Head of the orthopaedic and traumatology service*

A doctor in medicine and surgery from the Autonomous University of Madrid, he completed his training at the Orthopädische Universitätsklinik Balgrist in Zürich (Switzerland), the Instituto Rizzoli in Bologna (Italy), the Miami Hand Center (Florida, United States), the Mayo Clinic (Rochester, Minnesota, United States) and Massachusetts General Hospital (Boston, United States).

Since 2014, he has led the orthopaedic and traumatology service at Hospital Quirónsalud Madrid. Dr. Tabuenca is also the secretary of the Spanish Society for Shoulder and Elbow Surgery.

He is a professor at Universidad Europea de Madrid.

Languages: Spanish, English, French, and Italian.

The gynecology and obstetrics department is committed to promoting comprehensive health care for women, IVF, general gynecology and obstetrics, and gynecologic oncology, all from a specialized and multidisciplinary perspective. We at Quirónsalud offer full treatment for patients with gynecologic cancer thanks to our multidisciplinary team and technological resources, including a GERI incubator.

Some of the most substantial milestones reached in this area are: first female baby in Spain born free of the BRCA1 gene, which is linked to a risk of breast cancer. Non-invasive prenatal screening for fetal aneuploidy. First case in Spain of twins born free of Kabuki syndrome following prenatal genetic diagnosis.



DR. LLUÍS CABERO ROURA

**Hospital Quirónsalud Barcelona**

*Head of the obstetrics and gynecology service*

Specialist in gynecology and obstetrics. Special training: maternal-fetal medicine (prematurity, instrumental delivery, foetal medicine).

Quality control in obstetrics and gynecology.

Residencies at foreign institutions: Cornell University, New York, USA.

Edinburgh University (UK).

Membership in international scientific associations: International Federation of Obstetrics and Gynecology.

Vice-President. Chair of the Committee for Capacity Building in Education and Training. President of the Organizing Committee of the Rio 2018 World Conference. International Academy of Perinatal Medicine. Honorary Fellow of the American College of Obstetrics and Gynecology (USA). Fellow and Ad Eundem of the Royal College of Obstetrics and Gynaecology (UK).

No. of publications: 164 articles in journals with impact factor. Neural injury markers in intrauterine growth restriction and their relation to perinatal outcomes. *Pediatr Res.* 2017 Sep;82(3):452-457. doi: 10.1038/pr.2017.108. Epub 2017 May 31. PubMed PMID:28426650. Cervical pessary to prevent preterm birth in women with twin gestation and sonographic short cervix: a multicenter randomized controlled trial (PECEP-Twins). *Am J Obstet Gynecol.* 2016 Feb;214(2):145-152. doi:10.1016/j.ajog.2015.11.012. Epub 2015 Nov 25. PubMed PMID: 26627728.

Languages: Spanish, Catalan and English.



**DR. RICARDO SAINZ DE LA CUESTA**

**Hospital Universitario Quirónsalud Madrid**

*Head of the gynecology and obstetrics service*

Dr. Sáinz de la Cuesta obtained a doctorate in medicine and surgery from the Autonomous University of Madrid and specialized in oncological gynecology at Massachusetts General Hospital. He completed his residency in obstetrics and gynecology at The Union Memorial Hospital, and he did his clinical fellowship in oncological gynecology at Johns Hopkins Hospital in Baltimore, Maryland.

He was the head of gynecologic oncology part of the gynecology and obstetrics service at Hospital Fundación Jiménez Díaz and, since 2006, he has been the head of the gynecology and obstetrics service at Hospital Universitario Quirónsalud Madrid. His teaching work includes his role as delegate for the Dean of the Faculty of Medicine of the Autonomous University of Madrid at Fundación Jiménez Díaz, and as professor of health sciences at the Faculty of Medicine of the Autonomous University of Madrid. He is currently a professor at the Universidad Europea de Madrid. He has also taught gynecology and obstetrics at Harvard Medical School.

Languages: Spanish and English.



**DR. RAMÓN AURELL**

**Hospital Quirónsalud Barcelona**

*Medical Director of the Assisted Reproduction Unit*

*Specialist in gynecology, obstetrics and reproductive medicine*

Special training: reproductive medicine.

Residencies at foreign institutions: 1991-1997 Specialist training in obstetrics and gynecology, London, UK. 1997-1999 Research fellow in reproductive medicine, Hammersmith Hospital, London, UK.

Membership in international scientific associations: 1999-present: member of the European Society of Human Reproduction and Embryology (ESHRE). 2008-present: member of the ASRM (American Society of Reproductive Medicine). 2000-present: member of the Spanish Society for Gynecology and Obstetrics.

No. of publications: 250. Aurell R, Belil I, Veiga A, BARRI PN.

Micromanipulation and the risk of multiple pregnancy En: Multiple pregnancy. Epidemiology, gestational and perinatal outcome. Lancaster: Parthenon, 2004; (1-5).

Aurell R, Tur R, Torello Mj, Coroleu B, Barri Pn. Clinical Strategies to avoid multiple pregnancies in assisted reproduction. Gynecol Endocrinol 2006; 22(9): 473-478.

Parriego M, Sole M, Aurell R, Barri Pn, Veiga A. Birth after transfer of frozen-thawed vitrified biopsied blastocysts. J Assist Reprod Genet 2007.(24): 147-149.

Languages: Catalan, English, French and Italian.



DR. PEDRO N. BARRI

**Hospital Universitari Dexeus · Grupo Quirónsalud**

*Director of the department of obstetrics, gynecology and assisted reproduction at Hospital Universitario Dexeus and Director of Research Lectures in Obstetrics and Gynecology, Hospital Universitario Dexeus (Autonomous University of Barcelona)*

Specialist in gynecology and obstetrics. Specialist in women's health, infertility and assisted reproduction techniques. He completed his training in assisted reproduction techniques at Hospital S. Joseph, Lyon (France), Hospital Antoine Bécclère of Paris (France) and the University of Vienna (Austria).

He is the Honorary President of the Spanish Fertility Society, member of the board of the International Society of Gynecological Endocrinology, member of the American Society For Reproductive Medicine, USA. Dr Pedro N. Barri has published over 250 scientific articles, 102 as first author. Dr Pedro N Barri's H-index is 27.

Two particularly noteworthy articles:

Reproductive outcomes in recipients are not associated with oocyte donor body mass index up to 28 kg/m<sup>2</sup>: a cohort study of 2,722 cycles. Martínez F, Kava-Braverman A, Clúa E, Rodríguez I, Gaggiotti Marre S, Coroleu B, Barri PN. *Reprod Biomed Online*. 2017 Aug 15. pii: S1472-6483(17)30376-0. doi:10.1016/j.rbmo.2017.07.019. PMID: 28882430. Importance of a 5-versus 7-day pill-free interval in a GnRH antagonist protocol using corifollitropin alfa: a prospective cohort study in oocyte donors. A. Pérez-Calvo, F. Martínez, Ch. Blockeel, E. Clua, I. Rodríguez, PN Barri, B. Coroleu. *Reprod Biomed Online* 2017.

Languages: Spanish, Catalan, English, French and Italian.



DR. ANTONIO GOSÁLVEZ VEGA

**Hospital Universitario Quirónsalud Madrid / Hospital Quirónsalud San José**

*Head of the Assisted Reproduction Unit*

Dr. Gosálvez holds a degree in medicine and surgery from the Autonomous University of Madrid and is a specialist in gynecology and obstetrics. He has worked in the assisted reproduction unit of Hospital 12 de Octubre in Madrid, as well as a practice.

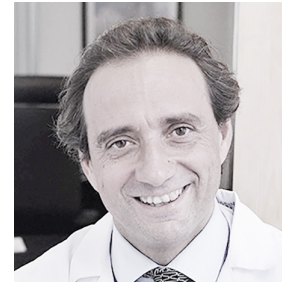
Doctor Gosálvez is an Associate Professor at the Universidad Europea de Madrid and has worked as a professor for the Human Reproduction Master's Degree of the Spanish Fertility Society and the Universidad Complutense in Madrid.

He is a member of the Spanish Gynecology and Obstetrics Society, Spanish Fertility Society, the European Society of Human Reproduction and Embryology (ESHRE), and the American Society for Reproductive Medicine (ASRM).

In the past few years, he has given over 30 conferences, 20 lectures and 15 talks at courses and conferences within his specialty. He has written 5 book chapters and has coordinated 4 monographs.

Languages: Spanish and English.

Within this field, Quirónsalud provides specialized care in neurology (Alzheimer's disease, Parkinson's disease, movement disorders, epilepsy, MS, headaches, and pain) as well as psychiatry and mental health.



DR. RAFAEL ARROYO

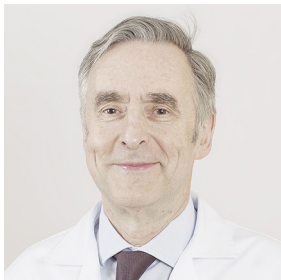
**Hospital Universitario Quirónsalud Madrid**

*Head of the neurology service*

A expert neurologist in neuro-immunological and neurodegenerative diseases, Dr. Arroyo is a national and international leader in multiple sclerosis. He has been the head of the neurology unit at Hospital Universitario Quirónsalud Madrid since 2006, where he leads a multidisciplinary team of neurologists, neurophysiologists, neuropsychologists and child neurologists.

He is head professor of neurology at the Universidad Complutense in Madrid. He has been the lead researcher of more than 40 international clinical trials for new medications, especially in the field of multiple sclerosis.

Languages: Spanish and English.



DR. ORIOL FRANCH

**Hospital Ruber Internacional · Grupo Quirónsalud**

*Head of the department of neurology at Hospital Ruber Internacional.*

*Head of the neurology service at Hospital La Luz*

Medical Specialization: neurology. Special training.

Second opinions. Neuro-ophthalmology

Membership in international scientific associations: Spanish Neurology Society, American Academy of Neurology and European Neurological Society. Publications: Glycogen storage disease in skeletal muscle. Morphological, ultrastructural and biochemical aspects in 10 cases. *Acta Neuropathol.* (Berl) 1981; Suppl. VII: 297-300. Neuromuscular changes in hypertrophic cardiomyopathy. *Acta Neuropathol.* (Berl) 1981; Suppl. VII: 323-327. Brueghel's syndrome. Report of a case with post-mortem studies. *J Neurol Neurosurg Psych.* 1981;44:437-444. Chromatolytic changes in the central nervous system of patients with the toxic oil syndrome. *Acta Neuropathol.* (Berl) 1987; 74:354-361. Multiple motor system dysfunction associated with a heterozygous ceruloplasmin gene mutation. *J Neurol.* 2008 Jul;255(7):1083-4. Epub 2008 Feb 25. Familial cerebral cavernous malformations associated with a splice-site CCM2 deletion. *J Neurol.* 2009 Jan; 256(1):137-8. Epub 2009 Feb 9. Tardive syndrome and Parkinson's disease responsive to concomitant tetrabenazine and levodopa therapy. *Parkinsonism & Related Disorders* 2011; 17: 774-776.

Languages: Spanish, Catalan and English.



DR. ANTONIO RUSSI

**Centro Médico Teknon · Grupo Quirónsalud**

*Director of the Epilepsy Unit*

Medical specialization: neurology and neurophysiology.

Special training : clinical epilepsy (all ages), video-EEG, pre-surgical epilepsy diagnosis.

Residencies at foreign institutions: Montreal Neurological Institute (Canada), Saint Paul Centre, Marseille (France).

Membership in international scientific associations: American Epilepsy Society (foreign member). International League Against Epilepsy (ILAE). Former President of the Spanish Chapter. International Bureau for Epilepsy (IBE) President Emeritus.

Publications: Russi (co-author): Spontaneous MEG brain activity. In: *Handbook of Clinical Magnetoencephalography and Magnetic Source Imaging.* Ed. by Andrew C. Papanicolaou, Cambridge University Press, 2009, 59-102.

Nowak R., Russi A., Giménez S.: New horizons for magnetoencephalography in epilepsy; *Epilepsia*, 54:1–10, 2013; Languages: Spanish, Catalan, English, French and Italian.



DR. PABLO CLAVEL

**Hospital Quirónsalud Barcelona**

*Director of the neurosurgery and spine surgery team of the Instituto Clavel*

Medical Specialization: neurosurgery. Special training: lumbar and cervical disc degeneration treatment with artificial disc replacement (ADR), and spinal and brain surgery.

Residencies at foreign institutions: Neustadt Hospital in Hamburg, Germany. Spine surgery. Prof. Halm. Pellegrin Hospital in Bordeaux, France. Spine surgery. Dr Obeid.

Membership in international scientific associations: 2000- present: Spanish Society of Neurosurgery (S.E.N.E.C.) 2005- present: AOSpine member. 2008-2010: International Advisory Board, Trans1.

No. of Publications: Participation in several books and over 26 articles published, including: Health-related quality of life in patients undergoing lumbar total disc replacement: A comparison with the general population. Clavel Laria, P.; Ungureanub, G.; Catalá, I.; Montes, G. Málaga, X.; Ríos, M. Rev Clinical Neurology and Neurosurgery. Sept 2017. 160 (2017) 119-124 Spinal cord metastasis from gliosarcoma. Case report and review of the literature. Asencio C, Clavel Laria P, Montes G et al. Neurocirugía (Astur) 2013 Dec.

No. of patents: 1. Inventor of European patent no. 14709664.8: Device for repairing an intervertebral disc. Application date: 12/03/2014.

Languages: Spanish, Catalan, English, Russian, German and Italian.



DR. MANUEL DE LA TORRE

**Hospital Ruber Juan Bravo · Grupo Quirónsalud**

*Head of the neurosurgery service at Ruber Juan Bravo Hospital Complex and Head of the department of neurosurgery*

Specialist in neurosurgery and occupational medicine. Areas of qualification: general neurosurgery and spine surgery. Cranioencephalic surgery and functional surgery.

Associations: AANS(American Association of Neurological Surgeons), EANS (European Association of Neurosurgical Societies), SLEN (Portuguese-Spanish Society of Neurosurgery), SENEC (Spanish Pain Society), Spanish Society of Percutaneous Surgical Approaches.

More than 30 papers in international journals.

Languages: English.



**DR. SANTIAGO GIL - ROBLES**

**Hospital Universitario Quirónsalud Madrid**

*Assistant head of the neurosurgery service*

Dr. Gil-Robles holds a degree in medicine and surgery from the Universidad Complutense in Madrid, and completed his specialist training in neurosurgery at Hospital Clínico San Carlos de Madrid. Since August 2004, he has been a staff specialist in neurosurgery at the Centre Hospitaliere Universitaire of Montpellier (France), and Assistant Professor of anatomy at the Faculty of Medicine of Montpellier (Chef de Clinique Assistant).

Languages: Spanish, English and French.



**DR. ROBERTO MARTÍNEZ**

**Hospital Ruber Internacional · Grupo Quirónsalud**

*Head of the Functional Neurosurgery and Radiosurgery Unit*

Medical specialty: neurosurgery. Special areas of training: functional neurosurgery, brain and spine radiosurgery.

Stays at foreign centers in chronological order: La Timone Hospital, Marseille (France); 2000, 2010, 2015. Karolinska Hospital, Stockholm (Sweden); 1993, 1996. Hospital for neurosurgery and neurology, Birmingham (United Kingdom); 1987.

Membership in international scientific societies: International Stereotactic Radiosurgery Society (ISRS): member of the executive committee and the teaching committee. Congress of Neurosurgical Surgeons, USA. American Association of Neurological Surgeons, USA. Nº of publications: Sixty publications in international journals with high impact factor. A fast pathway for fear in human amygdala. Nature Neuroscience 19: 1041-1049 June 2016. Gamma Knife Radiosurgery for Hemangioma of the Cavernous Sinus, Journal of Neurosurgery, June 2016. No. of patents: 1.

Languages: Spanish, English and French.

Our group excels in treatment of macular degeneration and ophthalmology in general. Our patients benefit from care that is made possible by innovative technology such as excimer laser and femtosecond laser.



**DR. AMADEU CARCELLER**

**Hospital Quirónsalud Barcelona**

*Head of the Glaucoma Unit of the ophthalmology service*

Medical Specialization: ophthalmology. Special training: cataract surgery, glaucoma, glaucoma surgery.

Membership in international scientific associations: ESCRS. European Society of Cataract and Refractive Surgeons, Catalan Ophthalmology Society, Member of the editorial board of the Journal "Annals d'Oftalmologia".

3 publications: Corneal disease in patients with chronic renal insufficiency undergoing hemodialysis.

Diaz-Couchoud P, Bordas FD, Garcia JR, Camps EM, Carceller A. Cornea. 2001 Oct;20(7):695-702.

PMID: 11588419

Prospective, randomized study of one, two, or three trabecular bypass stents in open-angle glaucoma subjects on topical hypotensive medication.

Katz LJ1, Erb C2, Carceller GA3, Fea AM4, Voskanyan L5, Wells JM6, Giamporcaro JE6.

Clin Ophthalmol. 2015 Dec 11;9:2313-20. doi: 10.2147/OPTH.S96695. eCollection 2015.

Languages: Spanish, Catalan and English.



DR. ALFREDO CASTILLO

**Hospital Universitario Quirónsalud Madrid**

*Head of the ophthalmology service*

Dr. Castillo specialized in ophthalmology at Hospital Clínico San Carlos, Universidad Complutense in Madrid, and completed his training at a number of health centers in the United States. After completing his specialist training, he started to work in corneal pathology and ocular immunology. In 1994, he started working at the first medical center to specialize in excimer laser techniques for the correction of refraction defects, accumulating a wealth clinical experience to this date, and publishing many papers and giving numerous scientific lectures. In 1997, he joined the Glaucoma Unit at the Hospital Clínico de Madrid, with numerous care, surgical and research duties. Dr Castillo's core medical and surgical activities include the following: refractive surgery with laser and intraocular lenses (myopia, hypermetropia and astigmatism), presbyopia (laser and lenses), cataract surgery and corneal surgery (corneal transplants, pterygium, keratoconus rings, etc.). He also specializes in early detection and surgery for glaucoma (laser, trabeculotomy, valve implant, etc.).

Languages: Spanish and English.



DR JAROSLAW HERNECKI

**Ophthalmological Institute Quirónsalud Dubai**

M.D., PhD, licensed specialist in ophthalmology from the University Hospital Vall d'Hebron in Barcelona, Spain in 2004. He wrote his doctoral thesis on detection of diabetic retinopathy using telemedicine, for which he was awarded the 2010 prize for outstanding research from the university's department of surgery. He was the medical director of the Quirónsalud Barcelona Ophthalmology Institute from 2010 to 2017, when he relocated to Dubai. Prior to this move, he was also head of the department of ophthalmology at the Asepeyo Orthopedic Hospital in Sant Cugat, Barcelona. He is specialized in vitreo-retinal, cataract and trauma surgery. His main interests are diabetic retinopathy, retinal detachment, and reconstructive surgery following ocular trauma.



**DR. IGNACIO JIMÉNEZ - ALFARO**

**Hospital Universitario Fundación Jiménez Díaz / Hospital Ruber Juan Bravo · Grupo Quirónsalud**

*Head of the ophthalmology service at Fundación Jiménez Díaz. Head of department of ophthalmology service of the Quirónsalud public hospitals in Madrid (FJD, HIE, HRJC, HGV). Head of the ophthalmology service at Complejo Hospitalario Ruber Juan Bravo*

Medical specialization: ophthalmology. Special training: corneal transplantation. Refractive surgery. Lens surgery.

One-month residency at Queen Victoria Hospital (London, United Kingdom) under Dr Sheraz M. Daya. Member of the European Society of Cataract and Refractive Surgery (ESCRS).

No. of publications: 39.

Jiménez-Alfaro I, Benítez del Castillo JM, García-Feijoó J, García J, Serrano JM. Safety of posterior chamber phakic intraocular lenses for the correction of high myopia. *Ophthalmology* 2001; 108 (1): 90-9.

García-Feijoó J, Jiménez-Alfaro I, Cuiña-Sardiña R, Benítez del Castillo JM, Méndez-Hernández C, García-Sánchez J. Ultrasound biomicroscopy examination of posterior chamber phakic intraocular lens position. *Ophthalmology* 2003; 110(1): 163-72.

Languages: Spanish and English.



**DR. MIGUEL MORCILLO AGRAMUNT**

**Ophthalmological Institute Quirónsalud Dubai**

*Medical director. Ophthalmology consultant. Cataract and refractive surgery*

Medical specialization: ophthalmology. Special training: refractive surgery: cataract surgery, Over 20,000 operations performed. Dr. Morcillo, is a consultant in ophthalmology focusing on refractive and cataract surgery. He performs complex eye surgery for such pathologies as advanced or complicated cataracts and also carries out implantation of phakic intraocular lenses.

Prior to joining the Quirónsalud Dubai Ophthalmological Institute, he worked for 19 years at Clínica Baviera - Instituto Oftalmológico Europeo, the largest ophthalmology group in Spain, at its facilities in Valencia and Madrid. Throughout his career, he has performed more than 20,000 surgeries, most of them related to refractive and Cataract Surgery. During this period, he was involved in Refractive Surgery training at the R+D Department. He conducted several pioneer studies on LASEK or Thin-LASIK techniques for thin corneas or implantation of diffractive multifocal lenses for presbyopia. He has been involved as either a cataract and phakic lenses surgeon or a medical director for the opening of new eye clinics in the group.

We at Quirónsalud are specialists in aesthetic and plastic surgery, maxillofacial surgery, and reconstructive surgery. The achievements that place us at the forefront of health care include endoscopic submucosal dissection (allowing for early removal of full tumor of the digestive tract with no need for open surgery) and technologies such as the Da Vinci Robot or the GammaKnife.



DR. ANTONIO DE LACY

**Hospital Quirónsalud Barcelona**

*Director of the Instituto Quirúrgico Lacy at Hospital Quirónsalud Barcelona*

Specialist in general and GI surgery. Residencies at foreign institutions. Pacific Presbyterian Medical Center (currently Pacific Medical Center). San Francisco (USA). Subject: liver surgery. 9 Months of postdoctoral training in liver transplantation and surgery. Other training residencies: Cleveland Clinic, Mount Sinai Hospital, Cornell University. Member of the Executive Board of the European Association for Endoscopic Surgery and other Interventional Techniques (E.A.E.S.), Member of the European Surgical Association, founding member of the Multidisciplinary International Rectal Cancer Society (MIRCS), member of the board of the International Federation of Societies of Endoscopic Surgeons (IFSES) since 2011, permanent member of the Sociedad Española de Cirugía de la Obesidad Mórbida y de las Enfermedades Metabólicas (SECO). Over 236 publications in scientific journals, 187 appearing in international journals, with an overall impact factor of 834,681 (SCI Journal Citation Reports 2016). H-index: 41 (December 2015). Lacy AM, Tasende MM, Delgado S, Fernandez-Hevia M, Jimenez M, De Lacy B, Castells A, Bravo R, Wexner SD, Heald RJ. Transanal Total Mesorectal Excision for Rectal Cancer: Outcomes after 140 Patients. J Am Coll Surg. 2015 Aug;221(2):415-23. doi: 10.1016/j.jamcollsurg.2015.03.046. Epub 2015 Mar 30. Lacy AM, García-Valdecasas JC, Delgado S, Castells A, Taurá P, Piqué JM, Visa J. Laparoscopy-assisted colectomy versus open colectomy for treatment of non-metastatic colon cancer: a randomised trial. Lancet. 2002 Jun 29;359(9325):2224-9. Languages: Spanish, Catalan, English and French.



**DR. JUAN CARLOS GARCÍA - VALDECASAS**

**Hospital El Pilar · Centre Cardiovascular Sant Jordi ·**

**Grupo Quirónsalud**

*Coordinator of the department of general and GI surgery*

Medical specialization: general and GI surgery. Special training: Colo and rectal, liver and pancreatic surgery. Professor García-Valdecasas was a pioneer in the implantation of liver transplants in Spain, in particular in transplanting living donor livers; he is currently the most experienced professional in this procedure, having performed over 100 transplants of this type out of a total 2000 procedures. He was a pioneer in the implementation of other donation models for the recovery of liver grafts, such as non-heart-beating donors.

Residencies at foreign institutions: St Mark's Hospital, London.

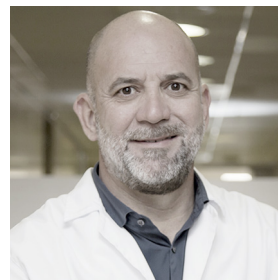
Specialization in colo rectal surgery. Addenbrooke's Hospital, Cambridge, under Professor Sir Roy Calne, specializing in liver transplantation.

Presbyterian Hospital, Pittsburgh, under Thomas Starzl, continuing the specialisation in liver surgery. Membership in International Scientific

Associations: Spanish Society for Liver Transplantation. European Hepato-Pancreato-Biliary Association. President of the International Liver Transplantation Society (2010-2011).

No. of publications: Over 400 indexed articles, mainly on colorectal and hepato-pancreato-biliary surgery, with an impact factor of over 800 and a Hirsch Index of 48.

Languages: Spanish, Catalan and English.



**DR. JORGE SOLANO**

**Hospital Quirónsalud Zaragoza**

*Head of the Advanced Laparoscopic Surgery Unit. Department of general and GI surgery*

Special training: advanced laparoscopic surgery

Metabolic surgery for obesity and diabetes. Laparoscopic oncological surgery.

Membership in international scientific societies: member of IFSO (International Federation of surgery for Obesity).

Nº of Publications: 9 publications, the two most important:

Laparoscopic Biliopancreatic Diversion: Technical Aspects and Results of our Protocol. *Obes Surg.* 2004; 14: 329 – 332

Laparoscopic biliopancreatic diversion (BPD) for the treatment of severe obesity: operative procedures and results. *Obes Surg* 2003; 13: 534 – 535.

Languages: Spanish, English and French.



DR. DIEGO GONZÁLEZ RIVAS

**Hospital Quirónsalud A Coruña**

*Physician, specialist in thoracic surgery*

Medical specialization: thoracic surgery. Special training: creator of the minimally invasive thoracic surgery unit.

Over 15 years of experience in all fields of thoracic pathology, complemented, in the past few years, with the development of video-surgery at foreign institutions such as: Shanghai Pulmonary Hospital, in China: creator and current director of the Uniportal Video-Thoroscopic Training Program. Memorial Sloan Kettering Cancer Center (New York). Cedars Sinai Hospital (Los Angeles). Collaborates with educational activities for the European Society of Thoracic Surgeons (ESTS), EACTS, the International Society for Minimally Invasive Cardiothoracic Surgery (ISMICS) and the American Association of Thoracic Surgery (AATS). Dr.González Rivas has published over 100 articles in the most prestigious international journals, describing the aforementioned procedures. These publications include the following: From Open Operations to Nonintubated Uniportal Video-Assisted Thoracoscopic Lobectomy: Minimizing the Trauma to the Patient. Gonzalez-Rivas et al. Annals of Thoracic Surgery 2015; 100 (6): 2003-2005. DOI:10.1016/j.athoracsur.2015.07.092. Uniportal video-assisted thoracic surgery: a call for better evidence, not just more evidence. Gonzalez-Rivas D, Damico TA, Jiang G, Sihoe A. Eur J Cardiothorac Surg (2016) doi: 10.1093/ejcts/ezw187.

Languages: English.



DR. LAUREANO MOLINS

**Hospital Quirónsalud Barcelona / Centro Médico Teknon ·**

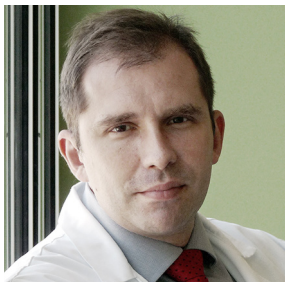
**Grupo Quirónsalud**

*Specialist in thoracic and general surgery*

Medical specialization: thoracic surgery. Special training: Video-thoroscopic and conventional surgery for treating lung cancer and other diseases of the lungs, trachea, mediastinum, thoracic wall and pleura. Treatment of excess sweating of the hands and axillae, and facial blushing. Minimally invasive surgery of pectus excavatum (hollowed chest). Pulmonary emphysema surgery. Residencies at foreign institutions: Mayo Clinic, Rochester, Minnesota. Massachusetts General Hospital (Harvard Medical School), Boston, Massachusetts. New England Deaconess Hospital (Harvard Medical School) Boston, Massachusetts.

Membership in International Scientific Associations. Founder (1993) and president (2008-2009) of the European Society of Thoracic Surgeons (ESTS). Society of Thoracic Surgeons (STS), USA; Member of the Workforce on International Relationships (2010-2016). American Association of Thoracic Surgery (AATS). European Association of Cardio-Thoracic Surgery (EACTS). European Respiratory Society (ERS), Chair of Thoracic Surgery (2013-2016). International Association for the Study of Lung Cancer (IASLC). Spanish Society of Thoracic Surgery and nine other national and international scientific associations. Publications in International Journals 495 presentations at national and international conferences. Visiting Professor at Massachusetts General Hospital, Harvard Medical School, Boston, USA (2009) and at Memorial Sloan Kettering Cancer Center (MSKCC), NYC, USA. 105 articles published in national and international journals and book chapters. Member of the editorial board and reviewer for several national and international journals.

Languages: Spanish, Catalan and English.



**DR. FRANCISCO JAVIER MORADIELLOS**

**Hospital Universitario Quirónsalud Madrid**

*Assistant head of the department of thoracic surgery*

Dr. Moradiellos is a specialist in thoracic surgery, and also practices his profession at Hospital Universitario Puerta de Hierro as the director of the ex vivo perfusion program for lung transplants.

He is an Associate Professor of medicine at the Universidad Europea de Madrid and a guest professor at the Autonomous University of Madrid. He has accumulated over 50 national and international scientific publications and has participated in over 100 scientific conferences with original and guest lectures, and is a member of the most important scientific societies.

He is also the author of 12 book chapters and has led several international workshops and courses. He is currently the lead researcher for the multi-center INSPIRE clinical trial for portable lung perfusion. He has worked at Hospital Universitario Quirónsalud Madrid as a thoracic surgeon since the facility opened, and his professional areas of interest include robotic surgery with the Da Vinci System, video-thoracoscopy, advanced-stage oncological surgery and thoracic wall deformities.

Languages: Spanish and English.



**DR. ANDRÉS VARELA DE UGARTE**

**Hospital Universitario Quirónsalud Madrid**

*Head of the department of thoracic surgery*

With a doctorate in medicine and surgery from the Autonomous University of Madrid, Dr. Varela has wide range of professional experience in different hospitals around the world, including the United States, Canada, Japan and Austria. He is a national leader in oncological thoracic surgery.

He is the head of the thoracic surgery service at Hospital Universitario Quirónsalud Madrid and the thoracic surgery and lung transplantation service at Hospital Puerta de Hierro. He is also the director of the lung transplantation program at Hospital Universitario Puerta de Hierro (Madrid).

He has taught at a number of institutions of higher education, and is currently a professor at the Autonomous University of Madrid.

Languages: Spanish and English.



DR. ENRIQUE PURAS

**Hospital Universitario Quirónsalud Madrid**

*Head of the angiology and vascular surgery service*

With a degree in medicine and surgery from the Universidad Complutense in Madrid, Dr. Puras later specialized in angiology and vascular surgery at Hospital Ramón y Cajal. He completed his residency at the Medical College of Virginia in the United States. His professional experience includes work with the Fundación Alcorcón, as the head of the Vascular Surgery Unit. He has also been a consultant in vascular surgery consultant at healthcare clinics such as Centro and MD Anderson in Madrid. Since 2006, he has led the angiology and vascular surgery service at Hospital Universitario Quirónsalud Madrid.

Since the start of his career, he has demonstrated great interest in diagnostic techniques based on ultrasound for vascular disease, as well as minimally invasive treatment methods. He has participated in and coordinated multiple epidemiological studies about arterial pathology in Spain, and developed many investigation protocols in innovative areas of vascular therapy.

Languages: Spanish, English, and French.



DR. JOSÉ LUIS MARTÍN DEL YERRO

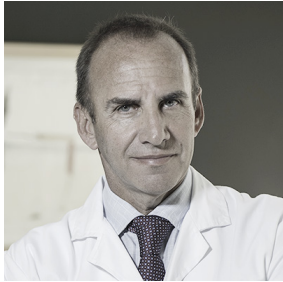
**Hospital Universitario Quirónsalud Madrid**

*Head of the plastic, aesthetic and reconstructive surgery service*

With a doctorate in medicine and surgery from the Autonomous University of Madrid, Dr. Martín del Yerro has worked a specialist in intensive medicine and, later, in plastic, aesthetic and reconstructive surgery. He was as a plastic and aesthetic surgeon at Hospital Ruber Internacional, Clínica La Luz and Hospital Montepíncipe, until he came to Quirónsalud Madrid as head of the department in 2006.

Dr Martín del Yerro has developed surgical techniques related to breast augmentation and remodelling, which have brought him significant international prestige in the field. He has contributed to the development of the most advanced and safest breast implants, and he was the first surgeon in the world to use Contour Profile Gel breast implants (currently the safest and most modern).

Languages: Spanish and English.



DR. VICENTE PALOMA

**Centro Médico Teknon · Grupo Quirónsalud**

*Director of the Dr Paloma Institute*

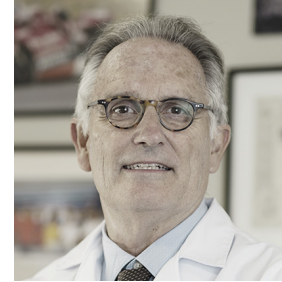
Medical specialization: plastic, aesthetic and reconstructive surgery.

Special training: breast, body remodelling, face. Residencies at foreign institution, from most to least recent: Jackson Memorial Hospital. Miami (USA), J. Hopkins University. Washington (USA), Baker & Stuzin Institute. Miami (USA).

Membership in international scientific associations: Spanish Society for Plastic, Reconstructive and Aesthetic Surgery. Vice-President. American Association of Plastic, Aesthetic and Reconstructive Surgery. Member. European Burns Association. Member.

No. of publications: 34 publications in international journals. No. of patents (participated in securing): 1.

Languages: Spanish, English and Russian.



DR. XAVIER MIR

**Hospital Universitari Dexeus · Grupo Quirónsalud**

Dr. Mir earned a degree in medicine and surgery from the University of Barcelona in 1978. He has been the head of the Upper Limb and Microsurgery Unit at the Catalan Institute for Orthopedic Surgery and Sports Medicine since 1992. Head of the Upper Limb and Microsurgery Unit at Hospital Universitari Vall d'Hebrón since 2001.

Head professor at the Autonomous University of Barcelona since 1992. Head of the MotoGP Medical Team since 2012. Co-Director of the Hand Surgery Course (the 32<sup>nd</sup> edition of the course will be held this year).

Former secretary, Spanish Hand Surgery Society. Former secretary, Catalan Society for Orthopaedic Surgery and Traumatology. Former secretary, Spanish Society for Orthopaedic Surgery and Traumatology.

Foreign Institutions: Bichat Claude Bernard Hospital (Paris), Legnano General Hospital (Milan), Philadelphia Hand Center.

Scientific activity: advisor for 28 doctoral theses, and member of the examination panel for 65 thesis defenses. 22 indexed international articles. 51 national, non-indexed articles. 300 presentations, approximately. 10 book chapters.



DR. JORDI COROMINA

**Centro Médico Teknon · Grupo Quirónsalud**

*Director of the ENT and Head and Neck Surgery Unit*

Medical specialization: ENT medicine. Special training: pediatric ENT medicine, ear surgery, nasal endoscopy, head and neck oncology.

Residencies at foreign institutions: Mayo Clinic (Rochester, USA), Boston Children's Hospital (Boston, USA), House Ear Institute (Los Angeles, USA).

Membership in international scientific associations: member of the Spanish Otorhinolaryngology and Head and Neck Surgery Society.

Doctor Medicine (*cum laude*). César Bertrán Award from the Spanish Otorhinolaryngology Society.

No. of publications: 6 publications in international journals. Coromina J., Sauret J., "Nasal Mucociliary Clearance in Patients with Nasal Polyposis" 1990;52: 311-315. Coromina J., Sauret J. SAURET J. et al. "Comparison of Three Methods of Nasal Mucociliary Clearance Measurement." EUR RESPIR J 1988; 1(SUPPL 2): 310.

Languages: Spanish, Catalan, English, French.



DR. CARLOS RUÍZ ESCUDERO

**Hospital Universitario Quirónsalud Madrid**

*Head of the ENT department*

Dr. Ruiz Escudero holds a degree in medicine from the Universidad Complutense in Madrid, and is a trained specialist in ENT medicine, which he pursued as a resident of internal medicine. He has practiced at Hospital Fundación de Alcorcón in Madrid, and has also had a private practice since 1998. He is currently the head of the ENT Unit at Hospital Universitario Quirónsalud Madrid, Complejo Hospitalario Ruber Juan Bravo and Quirónsalud San José.

His activities within this specialty span all areas, but he has particularly focused on surgical pathologies within the field. He has participated in all the most important surgical areas in the specialty, with particular focus on ear and nose surgery, collaborating with the ophthalmology service on eye socket and tear duct issues, and the neurosurgery service on an approach to pituitary surgery.

Languages: Spanish and English.

The urology department has made great strides in technology, including MRI-ultrasound fusion for prostate biopsy to offer top-notch care in surgery as well as prevention and treatment of the various diseases affecting these organs.



**DR. ANTONIO ALCARAZ**

**Hospital El Pilar · Centre Cardiovascular Sant Jordi · Grupo Quirónsalud**  
*Urology specialist at Centro Médico Teknon*

Special training: Robotics. Major uro-oncological surgery. Kidney transplantation.

Residencies at foreign institutions: “Research fellow” at the Mayo Clinic (Rochester, MN, USA). Membership in international scientific associations. Member of the European Association of Urology (EAU). Member of the scientific committee of the European Association of Urology (EAU). Member of the American Urological Association (AUA).

No. of publications: 167. First quartile: 111.

L. Mengual, M. Burset, MJ. Ribal, E. Ars, M. Marín-Aguilera, M. Fernández, M. Ingelmo-Torres, H. Villavicencio, A. Alcaraz. Gene expression signature in urine for diagnosis and aggressiveness assessment of bladder urothelial carcinoma. Clin Can Res 1:16(9):2624-33, 2010. (IF= 6’488, Q: 1).

Alcaraz A, Peri L, Izquierdo L, Musquera M. Is robotic kidney transplant the near future? Eur Urol 2017 Mar 24. PMID: 28343721. (IF: 14’976, Q1).

Patents: Non-Invasive Diagnostic Method for Diagnosing Bladder Cancer. Inventors: Antonio Alcaraz, Lourdes Mengual, María José Ribal, Juan José Lozano. Patent Office: European Patent Office. Concession Number: 14701798.2-1403. Holder: Fina Biotech, S.L.U.

Method for the Diagnosis and/or Prognosis of Cancer of the Bladder. Inventors: Antonio Alcaraz, Lourdes Mengual, María José Ribal, Moisés Burset, Elisabet Ars. Application Number: P200700727 Concession Number: 07788578.8-2401. Holder: Fina Biotech, S.L.U.

Languages: Spanish, Catalan and English.



**DR. MIGUEL ÁNGEL LÓPEZ COSTEA**

**Hospital Quirónsalud Barcelona**

*Director of the Advanced Urology and Robotics Center*

Medical specialization: urology. Special training: robotic surgery and kidney-bladder oncological and reconstructive laparoscopy, laparoscopic and open urologic surgical oncology, endourology and endoscopic oncologic and prostate surgery.

Residencies at foreign institutions: Surgical rotations in robotic and laparoscopic surgery at Clinique Saint Agustin Bordeaux (Prof. R. Gaston).

Membership in international scientific associations: member of the European Association of Urology and the Society of Robotic Surgery.

No. of publications: 37 national and international publications.

Oncological outcomes and prognostic factors after nephron-sparing surgery in renal cell carcinoma.

López-Costea MÁ, Bonet X, Pérez-Reggeti J, Etcheverry B, Vigués F. Int Urol Nephrol. 2016 May;48(5):681-6. doi: 10.1007/s11255-016-1217-z. Epub 2016 Feb 9.

Positive margins after nephron-sparing surgery for renal cell carcinoma: long-term follow-up of patients on active surveillance.

Lopez-Costea MA, Fumadó L, Lorente D, Riera L, Miranda EF.

BJU Int. 2010 Sep;106(5):645-8. doi: 10.1111/j.1464-410X.2009.09174.x.

Languages: Spanish, Catalan and English.



**DR. JOSÉ MANUEL RODRÍGUEZ LUNA**

**Hospital Universitario Quirónsalud de Madrid**

*Head of the urology service*

Doctor in medicine and surgery (*cum laude*) from the University of Alcalá de Henares (Madrid), Dr. Rodríguez Luna specialized in urology at Hospital Ramón y Cajal (Madrid). He has a diploma from the European Board of Urology, Union Européenne des Médecins Spécialistes.

He worked as an staff physician for the department of urology at Hospital Ramón y Cajal (Madrid), where he was part of the kidney transplant and organ extraction team. He has led the department of urology at Hospital Universitario Quirónsalud de Madrid since 2006.

He is a nationally renowned expert in his specialty, in particular in laparoscopic surgery, and microsurgical and robot-assisted techniques.

Languages: Spanish and English.



Quirónsalud features specialized management of diagnostic imaging, clinical testing and pathology. This is now one of the main grow-wide strategic lines, and there is now a specific business unit for this purpose, called Health Diagnostic (HD).

HD works to increase operational efficiency to benefit the patient through faster and more accurate integrated diagnostics, taking advantage of the convergence of the different areas and leveraging IT capabilities.

**This model offers the patient benefits which include:**

- Greater flexibility, coverage and agility across the group's network of centers
- Enhanced use of its specialized units at each facility, at the service of the entire group
- A chance to access a broader portfolio of common services
- Greater cost-efficiency through a joint purchasing policy

**HD features:**

- A distinctive catalogue of tests in the field of lab tests, as well as radiology and nuclear medicine.
- Access to reference centers in diagnostic imaging, near the patient and located in Barcelona.
- Clinical analysis labs located in group hospitals in most areas of the country. These labs are all interconnected and run on the same IT system and have several reference laboratories.

- Equipped with cutting-edge technological equipment.
- With the support of experienced and specialist health-care professionals.
- Single data connection and shared IT systems, providing easy and fast access to images and diagnostics.
- Uniform quality and service standards in all centers.
- Certified quality of services and processes (ISO Multisite 9001-2008; EFQM in 2016).

**Radiology milestones:**

- Integration and management of 10 centers of excellence in metropolitan Barcelona .
- Certified care and management quality (ISO, EFQM).
- Tele-Radiology platform with an annual output of over 40,000 diagnostic procedures.
- More than 500,000 tests performed each year.

**Laboratory milestones:**

- Management of 21 labs in hospitals nationwide, sharing a single system.
- Integration of 17 new clinical analysis labs between 2017-2018.
- Plans to add service for insurance companies and their OHS operations over the mid-term, bringing the total number of annual requests processed to 5 million.
- Certified care and management quality (ISO)
- Care and Management Quality Certifications (ISO).



**DR. JUAN ÁLVAREZ LINERA**

**Hospital Ruber Internacional · Grupo Quirónsalud**

*Head of the Neuroradiology Unit*

Medical specialty: radiology. Special areas of training: PhD in Neuroscience and European Diploma in Neuroscience. Development of new image markers (volumetry, perfusion, tractography) applicable to neurodegenerative diseases, epilepsy, and tumors. Stays at foreign centers: neuroradiology residency at the University of Ohio, Columbus. University of California, San Francisco. Karolinska Institute, Stockholm.

Member of international societies:

RSNA – Radiology Society of North America.

ASNR – American Society of Neurorehabilitation.

ESNR – European Society of Neuroradiology.

No. of publications: 87;

1: Álvarez-Linera J, Escribano J, Benito-León J, Porta-Etessam J, Rovira A.

Pituitary enlargement in patients with intracranial hypotension syndrome.

Neurology. 2000 Dec 26;55(12):1895-7. PubMed PMID: 11134390. 2:

Fernández-Miranda JC, Rhoton AL Jr, Álvarez-Linera J, Kakizawa Y, Choi

C, de Oliveira EP. Three-dimensional microsurgical and tractographic

anatomy of the white matter of the human brain. Neurosurgery. 2008

Jun; 62(6 Suppl 3):989-1026; discussion 1026-8. doi: 10.1227/01.

neu.0000333767.05328.49. PubMed PMID: 18695585.

Patent: 200600520; MR Simulator; 2016.

Languages: English, French, and Italian.



**DR. CARMEN AYUSO**

**Hospital Universitario Fundación Jiménez Díaz · Grupo Quirónsalud**

*Head of the department of medical genetics*

Medical specialization: internal medicine. Special training: medical genetics. Rare diseases. Monogenic diseases (genetic counselling, genetic diagnosis).

Membership in international scientific associations: Spanish Association for Human Genetics (former secretary). European Society of Human Genetics. Spanish Prenatal Diagnosis Association.

No. of publications: Over 400 indexed publications. Since 2003, 154

publications in Q1 and 44 in D1. Martínez-Mir A, Paloma E, Allikmets R, Ayuso C, del Rio T, Dean M, Vilageliu L, González-Duarte R, Balcells

S. Retinitis pigmentosa caused by a homozygous mutation in the

Stargardt disease gene ABCR. Nat Genet. 1998 Jan;18(1):11-2. PMID:

9425888. IF(1998): 40,361 Q(1998) Q1 D1 (1:103) Genetics & Heredity.

Riveiro-Álvarez R, López-Martínez MA, Zernant J, Aguirre-Lamban J,

Cantalapiedra D, Ávila-Fernández A, Giménez A, López-Molina MI,

García-Sandoval B, Blanco-Kelly F, Corton M, Tatu S, Fernández-San José

P, Trujillo-Tiebas MJ, Ramos C, Allikmets R, Ayuso C. Outcome of ABCA4

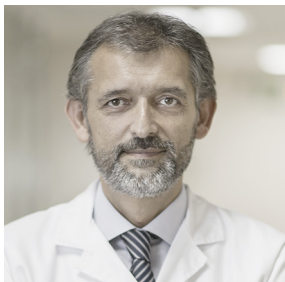
disease-associated alleles in autosomal recessive Retinal Dystrophies:

Retrospective analysis in 420 Spanish families. Ophthalmology. 2013

Nov;120(11):2332-7. PMID: 23755871 IF(2013): 6,170 Q(2013) Q1 D1

(2:58) Ophthalmology.

Languages: Spanish, English and French.



**DR. MANUEL ESCOBAR**

**Hospital Quirónsalud Barcelona / Centro Médico Teknon ·  
Grupo Quirónsalud**

*Clinical Director of Radiology*

Medical specialization: diagnostic radiology. Special training:

Oncological diagnostic of the chest and abdomen.

Residencies at foreign institutions: Hospital for Bone And Joint Diseases,  
New York, USA, 1996. Membership in international scientific associations  
member of the European Society of Radiology.

Publications: "Experimental model of tuberculosis in the domestic goat  
after endobronchial infection with Mycobacterium caprae."

Val Pérez B, López-Soria S, Nofrías M, Martín M, Vordermeier HM,  
Villarreal-Ramos B, Romera N, Escobar M, Solanes D, Cardona PJ, Domingo  
M. Clin Vaccine Immunol. 2011 Nov; 18(11):1872-81. Epub 2011 Aug 31.

Languages: Spanish, Catalan and English.



**DR. IGNACIO GADEA**

**Hospital Universitario Fundación Jiménez Díaz · Grupo Quirónsalud**

*Head of the Microbiology Service at Hospital Universitario Fundación  
Jiménez Díaz. Coordinator of the Laboratories at the Grupo QuirónSalud  
Public Hospitals in the Community of Madrid*

Medical Specialist in Microbiology and Parasitology. Associate Professor  
of Microbiology and Parasitology at the Autonomous University of  
Madrid. Special Training Areas: Medical Mycology. Herpes virus as  
vaccine vectors and gene therapy. Infectious diseases.

Membership in International Scientific Associations: American Society  
for Microbiology, Spanish Society for Infectious Diseases and Clinical  
Microbiology.

Nº of Publications: 19 in the First Quartile, Highlighting: Evidence of  
Muller's ratchet in herpes simplex virus type 1. N Jaramillo, E Domingo,  
MC Muñoz-Egea, E Tabares, I Gadea. Journal of General Virology (2013)  
94 (2), 366-375. Genotyping and antifungal susceptibility profile of  
Dipodascus capitatus isolates causing disseminated infection in seven  
hematological patients of a tertiary hospital. I Gadea, M Cuenca-  
Estrella, E Prieto, TM Díaz-Guerra, JI García-Cia, et al. Journal of Clinical  
Microbiology (2004) 42 (4), 1832-1836.

Languages: Clinical practice in Spanish, but understands written and  
spoken English.



**DR. FEDERICO GUSTAVO ROJO**

**Hospital Universitario Fundación Jiménez Díaz · Grupo Quirónsalud**

*Head of the histopathology service, Fundación Jiménez Díaz. Coordinator of histopathology at Hospital Universitario Infanta Elena, Hospital Universitario Rey Juan Carlos and Fundación Jiménez Díaz. Scientific director of the FJD Biobank. Head of the Cancer Biomarker Research Group, IIS-FJD. Coordinator the Cancer Area of IIS-FJD*

Medical specialization: histopathology. Special training: Molecular pathology. Breast pathology. Cancer biomarkers.

Residencies at foreign institutions: MD Anderson Cancer Center, Houston, TX.

Membership in international scientific associations: International Academy of Pathology.

No. of publications: 178. Number of publications in the first quartile within the field of specialization (oncology and histopathology): 162.

Most important publications in the past 5 years: Slebe F, et al. FoxA and LIPG endothelial lipase control the uptake of extracellular lipids for breast cancer growth. Nat Commun. 2016. Gomez-Martin C, et al. Level of HER2 gene amplification predicts response and overall survival in HER2-positive advanced gastric cancer treated with trastuzumab. J Clin Oncol 2013. Title of registered intellectual property: Método para predecir detección y respuesta a terapia en cáncer. Uso de un panel de microRNAs. [Method to Predict Detection and Response to Therapy In Cancer. Use of Micro-RNA Panel.] Inventors/authors/holders: Rosario Perona; Javier de Castro; Olga Pernía; Federico Rojo; Inmaculada Ibañez.

Languages: Spanish, Catalan and English.



**DR. LUIS MARTÍ**

**Hospital Quirónsalud Valencia**

*Head of Radiology Unit*

Medical specialty: diagnostic radiology. Membership in international scientific societies: President of the European Society for Magnetic Resonance in Medicine & Biology (ESMRMB). President of the Spanish Society of Medical Radiology (SERAM). President of the European Society of Gastrointestinal and Abdominal Radiology (ESGAR).

No. of publications in international journals (included in first-quartile journals ranked by impact factor): 253 indexed.

Number of patents: 7.

Languages: Spanish and English.



DR. VICENTE MARTÍNEZ DE VEGA

**Hospital Universitario Quirónsalud Madrid**

*Head of the diagnostic imaging service*

With a degree in medicine and surgery from Oviedo University, Dr. Martínez de la Vega specialized in diagnostic radiology at Hospital 12 de Octubre (Madrid). He has practiced at Sanatorio San Francisco de Asís and Centro Médico Medyec, and was head of the resonance imaging and CT service at Nuestra Señora del Rosario. He has led the diagnostic imaging service at Hospital Universitario Quirónsalud de Madrid since 2006.

A pioneer in the clinical application of magnetic resonance in our country, he has broad experience in the fields of breast, cardiovascular, bone joint and neuro-radiologic magnetic resonance imaging, as well as the clinical application of CT with multi-detectors, in particular for cardiac and vascular pathology.

He is a professor at the Universidad Europea de Madrid.

Languages: Spanish and English.



DR. DANIEL CARNEVALLI

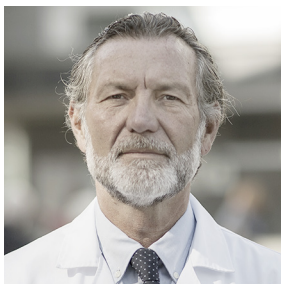
**Hospital Universitario Quirónsalud Madrid**

*Head of the internal medicine service*

After earning his medical degree from the Autonomous University of Madrid (1987), he completed his training as an internist at Hospital Universitario 12 de Octubre in Madrid (1993), and has since focused on private, in hospital health-care. Dr. Carnevalli played a role in the opening and development of the Clínica Moncloa beginning in 1994. He has been part of the team at Hospital Universitario Quirónsalud Madrid since it opened in 2006.

He has attended multiple refresher courses in his field of specialization at Harvard University and the Mayo Clinic in Rochester, United States. Within the field of internal medicine, he has focus his activities on the clinical management of patients with multiple illnesses, systemic autoimmune diseases, patients with medical problems and associated psychopathologies, and patients with HIV infection, and has become a leading figure in treatment of HIV-positive patients within the region of Madrid.

Languages: Spanish and English.



DR. ÁNGEL CHARTE

**Hospital Universitari Dexeus · Grupo Quirónsalud**

*Head of the department of medicine*

Medical specialization: internal medicine. Special training: specialist in emergency medicine, forensic medicine (not currently practicing), infectious diseases, critical-care units.

Residencies at foreign institutions: Medical Director of Dorna-FIM Road Racing World Championship (Moto GP).

Membership in international scientific associations: professor of clinical medicine at the Autonomous University of Barcelona.

No. of patents: 1. Mepickoal SL developing emergency, ward and intensive medicine unit.

Languages: native Spanish, basic English, intermediate French and Italian.



DR. RAFAEL ESTEBAN MUR

**Hospital Quirónsalud Barcelona**

*Head of the internal medicine service*

Medical specialization: internal medicine. Special training: hepatology.

Membership in international scientific associations: member of the scientific committee of the European Association for the Study of the Liver (EASL). Member of the American Association for the Study of Liver Diseases (AASLD).

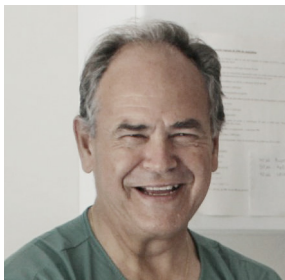
No. of publications: 347 in national and international journals. J Llaneras; L Castells; B Santos; M Crespo; T Puig; J I Esteban; R Esteban.

Removal from liver transplantation list of an hepatitis C virus-HIV co-infected patient after successful treatment with sofosbuvir and daclatasvir. Transplant infectious disease: an official journal of the Transplantation Society. 02/04/2016. ISSN 1399-3062.

George Papatheodoridis; George Dalekos; Vana Sydsa; Cihan Yurdaydin; Maria Buti; John Goulis; Jose Luis Calleja; Heng Chi; Spilios Manolakopoulos; Giampaolo Mangia; Nikolaos Gatselis; Onur Keskin; Savvoula Savvidou; Juan de la Revilla; Bettina E Hansen; Ioannis Vlachogiannakos; Kostantinos Galanis; Ramazan Idilman; Massimo Colombo; Rafael Esteban; Harry L A Janssen; Pietro Lampertico.

PAGE-B predicts the risk of developing hepatocellular carcinoma in Caucasians with chronic hepatitis B on 5-year antiviral therapy. Journal of hepatology. 64 - 4, pp. 800 - 806. 04/2016. ISSN 1600-0641.

Languages: Spanish, Catalan, English and French.



DR. GARCÍA DEL OLMO

**Hospital Universitario Fundación Jiménez Díaz · Grupo Quirónsalud**

*Head of the surgery department at Fundación Jiménez Díaz*

*Director of the Cellular Therapy Unit at IIS-FJD*

Specialization: General and digestive surgery. Dr. García del Olmo is particularly interested in colorectal cancer and proctology. A pioneer in the clinical use of stem cells to treat surgical procedures. His main clinical and scientific activities are focused on the development of advanced treatments for colorectal pathologies, including innovative surgical approaches. He is currently investigating the transforming capabilities of nucleic acids circulating in plasma (liquid biopsy) in cancer patients (theory of genomestasis). He has received over 50 awards and commendations for his research.

He is a member of many national and international scientific associations: President of the Spanish Coloproctology Association (2004-2005). Professor of surgery at the Autonomous University of Madrid. Author of many articles in national and international scientific journals.



DR. LUIS OROZCO

**Centro Médico Teknon · Grupo Quirónsalud**

*Scientific director of the Tissue Regeneration Therapy Institute*

Medical specialization: orthopaedic surgery and traumatology. Special training: cellular therapy for musculoskeletal system pathologies.

Residencies at foreign institutions: Maurice E. Müller Foundation (Switzerland). (Research in orthopaedic surgery and traumatology).

No. of publications: 16. Title: Treatment of knee osteoarthritis with autologous mesenchymal stem cells: a pilot study. Journal: Transplantation Journal. Year: 2013.

Title: Intervertebral Disc Repair by Autologous Mesenchymal Bone Marrow Cells: A Pilot Study. Journal: Transplantation Journal. Year: 2011.

No. of patents: 1. Registration no.: 2973-IC.

Languages: Spanish, Catalan and French.



DR. ROBERT SOLER

**Centro Médico Teknon · Grupo Quirónsalud**

*Medical director of the Tissue Regeneration Therapy Institute*

Medical specialization: rheumatology. Special training: cellular therapy for musculoskeletal system pathologies.

Residencies at foreign institutions: CHU Hôtel Dieu, CHU Montpellier, CHU Toulouse.

No. of publications: 14.

Title: Final results of a phase I–II trial using ex vivo expanded autologous Mesenchymal Stromal Cells for the treatment of osteoarthritis of the knee confirming safety and suggesting cartilage regeneration.

Journal: The Knee. Year: 2016.

Title: Treatment of Knee Osteoarthritis with Autologous Expanded Bone Marrow Mesenchymal Stem Cells: 50 Cases Clinical and MRI Results at One Year Follow-Up. Journal: Journal of Stem Cells Research. Year: 2015. Languages: Spanish, Catalan and French.



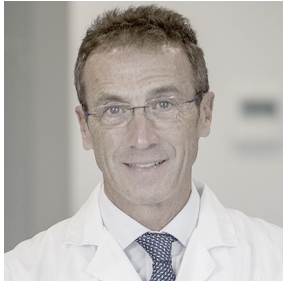
DR. DAVID ABEJÓN

**Hospital Universitario Quirónsalud Madrid**

*Head of the Pain Unit*

Dr. Abejón earned his degree at Alcalá de Henares University, and completed his residency at Hospital Puerta de Hierro in Madrid. He has practiced at Fundación Hospital de Alcorcón and MD Anderson in Madrid. He is currently the head of the Pain Unit at Hospital Universitario Quirónsalud Madrid, Complejo Hospitalario Ruber Juan Bravo and Hospital Puerta de Hierro. He is also the president of the Spanish Neuromodulation Society, and an interventional pain practice fellow at the World Institute of Pain.

He is an expert in the interventional treatment of chronic pain, radiofrequency neurostimulation techniques and epiduroscopy. Languages: Spanish and English.



DR. JOSEP RODIERA

**Centro Médico Teknon · Grupo Quirónsalud**

*Head of the anaesthesiology department*

Medical specialization: anaesthesiology. Special training: patient safety in anaesthesia, neuromuscular monitoring.

Residencies at foreign institutions: 1999: Massachusetts General Hospital, Boston, MA, USA. 2007: Krankenhaus Rudolfstiftung, University Hospital, Vienna, Austria.

Membership in international scientific associations:

ESA: European Society of Anaesthesiologists. ESTAIC: European Society of Technology in Anaesthesia and Intensive Care.

No. of publications: J. Rodiera, R. Calabuig, L. Aliaga, W. Espinosa, F. Hobeich, F. Oferil & A. Gual. Mathematical analysis of epidural space location, 21:213-217, 1995. International Journal of Clinical and Monitoring. J. Rodiera, R. Calabuig, A. Gual.

Selective versus non-selective neural stimulation in the monitoring of muscular relaxation during general anesthesia, 15/6 341-345, 1999. International Journal of Clinical and Monitoring.

J. Rodiera, A. Serradell, J.A. Alvarez-Gomez, L. Aliaga

The Cuff Method: a Pilot study of a new method of monitoring neuromuscular function, 49; 1552-1558, 2005. Acta Anaesthesiologica Scandinavica.

No. of patents: 21 national and international patents. 2 products on the market based on these patents.

Languages: Spanish, Catalan and English.



DR. FERNANDO CABAÑAS

**Hospital Universitario Quirónsalud Madrid**

*Head of the pediatric and neonatology service*

Doctor in medicine and surgery (*cum laude*) from the Autonomous University of Madrid, he specialized in pediatrics and childcare at Hospital de La Paz (Madrid).

He has practiced at Hospital de La Paz (Madrid), where he worked as a specialist in pediatrics and neonatology for the past 30 years, in the transition, intermediate care, intensive care and follow-up poly-clinic units. There, he was also the head of neonatal neuroimaging and cerebral hemodynamics. He also has a wealth of experience in diagnosing cerebral deformities in utero. He has been the head of the pediatric and neonatology service at Hospital Universitario Quirónsalud de Madrid since 2006, a job he combines with his work as head of the pediatric service at Hospital Quirónsalud San José. He is a professor of pediatrics at the Autonomous University of Madrid.

Languages: Spanish and English.



DR. JOSÉ HINOJOSA

**Hospital Universitario Quirónsalud Madrid**

*Pediatric neurosurgeon*

Dr. Hinojosa has a degree in medicine and surgery from the University of Valladolid, and trained as a specialist in neurosurgery at Hospital Ramón y Cajal in Madrid. He has trained at Montefiore Hospital and Columbia Presbyterian (both in New York), USC in Los Angeles (California), and the University of Heidelberg (Germany), and is a specialist in craniosynostosis and craniofacial syndromes, with experience in minimally invasive surgery. He also has considerable experience with pediatric brain tumors and congenital malformations, including spina bifida and hydrocephaly, in addition to epilepsy and spasticity surgery. He currently combines his work as a pediatric neurosurgeon at Hospital Universitario Quirónsalud Madrid with his position as head of the Pediatric Neurosurgery Section at Hospital 12 de Octubre in Madrid.

Languages: Spanish and English.



DR. JAVIER ALBIÑANA

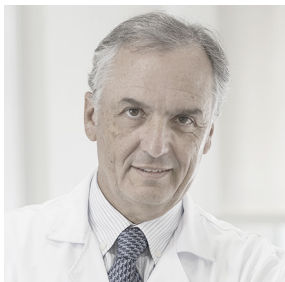
**Hospital Universitario Quirónsalud Madrid**

*Surgeon specializing in pediatric orthopedic surgery*

Dr. Albinana holds a degree in medicine from the University of Navarra and the Autonomous University of Madrid. He completed his residency training in pediatric orthopedic surgery and traumatology at Hospital Universitario de La Paz in Madrid, and completed his training in paediatric orthopedic surgery at Oxford University (United Kingdom) and the University of Iowa (United States). He has practiced at the Niño Jesús and La Paz Hospitals, where he was head of the pediatric orthopedics section.

Doctor Albiñana has published 27 pieces in international paediatric orthopaedia journals and 10 book chapters on this subject, on which he has also lectured at over 50 national and international conferences.

Languages: Spanish and English.



**DR. IGNACIO GINEBREDÀ**

**Hospital Universitari Dexeus · Grupo Quirónsalud**

*Head of bone lengthening and reconstruction at the Catalan Institute for Traumatology and Sports Medicine*

The unit partners with the Catalan Public Health System to treat acondroplasia, condrodysplasias, other dysplasias and growth disorders.

Medical specialization: orthopedic surgery and traumatology.

Special training: bone lengthening in short stature dysplasia and dysmetria. Correction of congenital/acquired bone deformities. Bone infections. Pseudoarthrosis.

Residencies at foreign institutions: Center of Excellence for the Fitbone® Treatment.

Membership in international scientific associations: Vice-President of the Spanish External Fixation Society, 2017. President: World Congress on External Fixation & Bone Reconstruction (Barcelona, 2010). Member of the scientific committee for the 2nd World Congress on External Fixation & Bone Reconstruction (Salvador de Bahía, Brazil, 2012). Former president of the Spanish External Fixation Society (2008-2010).

No. of publications in international journals: 33 publications in national and international journals/books, related to acondroplasia, bone lengthening, axis corrections and pathological short stature (2 indexed in international journals).

Languages: Spanish, Catalan and English.



**DR. LUIS MARÍA TERRICABRAS**

**Centro Médico Teknon · Grupo Quirónsalud**

*Director of the Dr Terricabras Pediatric Orthopedic Group*

Medical specialization: pediatric orthopaedics, Orthopaedic surgery and traumatology. Special training: pediatric orthopedics, pediatric hip, neuromuscular diseases, foot and knee.

No. of publications: Results of posterior spinal fusion in patients with spinal muscular atrophy. A review of 9 cases.

N. Ventura. R. Huguet. A. Salvador. L. Terricabras. M. Cabrera. J Bone Joint Surg 1994;76-B Suppl (16).

Disc Calcification in Children: A review of seven cases.

N. Ventura. R. Huguet. A. Salvador. L. Terricabras. J Bone Joint Surg 1994,76-B Suppl (19).

Les Fractures de la Main Chez L'Enfant. (Etude statistique - à propos de 1000 cas).

A. Salvador. J. Minguella. L. Terricabras. M. Cabrera.

Echanges en Rééducation. (216-219). 1994. Editorial Sauramps Medical. Montpellier (France).

Intervertebral disc calcification in childhood.

N. Ventura. R. Huguet. A. Salvador. L. Terricabras. M. Cabrera. International Orthopaedics(SICOT)(1995). 9:291-294.

Intervertebral discitis in Children. A review of 12 cases

N. Ventura. E. Gonzalez. L. Terricabras. A. Salvador. M. Cabrera. International Orthopaedics( SICOT)(1996) 20:32-34.



DR. RAÚL F. ABELLA

**Hospital Universitari Dexeus · Grupo Quirónsalud**

*Director of the Barcelona International Heart Centre. Hospital Universitari Dexeus. Head of the pediatric cardiovascular surgery service at Hospital Universitario Vall d'Hebron*

Specialization: cardiovascular surgery. Special training: neonatal cardiovascular surgery. Univentricular heart surgery. Surgery for pulmonary atresia with interventricular communication and major side effects. Chronic heart failure and transplant surgery. Aid programmes for the development of paediatric cardiovascular surgery in developing countries.

Residencies at foreign institutions: IRCCS Policlinico San Donato, Milan, Italy. "Aldo Castaneda" Institute, Genolier, Switzerland. Ospedale Bambini Gesù, Rome, Italy. Member of: World Society for Pediatric and Congenital Heart Surgery, founding member. European Associations for Cardio-Thoracic Surgery, member.

He has written over 72 publications and, recently, co-authored 2 books: Adrenomedullin alterations related to cardiopulmonary bypass in infants with low cardiac output syndrome. Abella R, Satriano A, Frigiola A, Varrica A, Gavilanes AD, Zimmermann LJ, Vles HJ, Florio P, Calevo MG, Gazzolo D. J Matern Fetal Neonatal Med. 2012 Dec;25(12):2756-61. doi: 10.3109/14767058.2012.718393. Primary repair of pulmonary atresia with ventricular septal defect and major aortopulmonary collaterals: a useful approach. Abella RF, De La Torre T, Mastropietro G, Morici N, Cipriani A, Marcelletti C. J Thorac Cardiovasc Surg. 2004 Jan;127(1):193-202.



DR. FRANCISCO HERNÁNDEZ OLIVEROS

**Hospital Universitario Quirónsalud Madrid**

*Head of the pediatric surgery service*

Dr. Hernández Oliveros earned his degree in medicine and surgery at the University of Granada, and did his residency in pediatric surgery at Hospital la Paz. He completed his training at Cincinnati Children's Hospital and Jackson Memorial Children's Hospital in Miami, both in the United States. He is currently the head of the transplantation section at Hospital La Paz.

Languages: Spanish and English.



DR. JUAN CARLOS LÓPEZ GUTIÉRREZ

**Hospital Universitario Quirónsalud Madrid**

*Head of the pediatric surgery service*

He is a specialist in pediatric surgery and pediatric reconstructive surgery. He combines his work as head of service at Hospital Universitario Quirónsalud Madrid with his role as head of the Congenital Vascular Anomalies Unit at Hospital de La Paz (Madrid). He specializes in the treatment of congenital vascular deformities and tumours, the reconstruction of deformities of the upper limbs, garment nevus, neurofibromatosis, epidermolysis bullosa, major burns and pediatric trauma.

Languages: Spanish and English.



DR. RUBÉN OSWALDO GRECO

**Hospital Universitario Quirónsalud Madrid**

*Pediatric heart surgeon*

He holds a degree in medicine from the National University of La Plata in Buenos Aires (Argentina), and did his residency in general surgery at the National University of Buenos Aires and in heart surgery at the University of Sao Paulo, in Brazil, with Professor Adib Jatene. He completed his training in London with Professor Donald Ross.

He specialized in cardiovascular surgery at the Universidad Complutense in Madrid, and has practised in the La Paz and Gregorio Marañón hospitals, in Madrid. He has cared for patients at Hospital Universitario Quirónsalud Madrid since 2006.

He is an expert in paediatric heart surgery and congenital malformations, including the Norwood Technique, the Ross Technique, the Japene Operation, neonatal surgery and ECMO cardiovascular support.

Languages: Spanish and English.



DR. LUIS MADERO

**Hospital Universitario Quirónsalud Madrid**

*Head of the pediatric hemato-oncology service*

In addition to heading the pediatric haemato-oncology service at Quirónsalud Madrid, Dr. Madero is the head of the onco-hematology and hematopoietic transplantation service at Hospital Niño Jesús, in Madrid.

He has a great deal of experience as a professor, and is a lecturer in pediatrics at the Autonomous University of Madrid.

He is the author of over 200 publications in international journals, and 200 in national publications. He has written over 12 books on topics in his field, and has authored chapters in over 60 books.

He has been the lead researcher for over 10 research projects with national grants, and collaborating researcher in over 20 research projects.

Among other responsibilities, he is the former national coordinator of the Thematic Research Network on Fanconi anemia.

Languages: Spanish and English.



DR. ALBERTO FERNÁNDEZ

**Hospital Universitario Quirónsalud Madrid**

*Head of the pediatric neurology unit*

He is one of the most prestigious Spanish physicians in his field. He has worked at Hospital de La Paz and is the medical director of the Spanish acronym for the Centre for Educational Diversity.

He obtained his degree in medicine from the Autonomous University of Madrid, and did his residency in pediatrics and neurology at Hospital Universitario de La Paz, in Madrid. He holds a doctorate on pediatrics from the Autonomous University, and a master's in psychology.

He has specialized in neurodevelopmental disorders and their concurrent diseases, with particular focus on attention deficit-hyperactivity disorder.

Languages: Spanish and English.







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# Partnerships & Official Medical Team

# OFFICIAL MEDICAL SERVICE PROVIDER FOR THE SPANISH NATIONAL BASKETBALL TEAM

Quirónsalud, Spain's leading hospital group, is the official provider of medical services for the Spanish men's and women's basketball teams.

Quirónsalud makes good on its commitment to the promotion of healthy habits and a healthy lifestyle through exercise by partnering with the Spanish national basketball teams, setting a great example for the general population.

In addition, this agreement showcases Quirónsalud's commitment to the promotion of women's sport, as it is linked the "Women's Basketball Universe" program under the Comprehensive Plan for the Promotion and Development of Spanish Female Sports.





# OFFICIAL MEDICAL SERVICE PROVIDER FOR THE MOTOGP WORLD CHAMPIONSHIP

Quirónsalud created the first mobile hospital for the MotoGP World Championship in order to bolster the health protection for available to competitors in these events.

With this initiative, Quirónsalud makes its extensive care experience, available to others, covering intensive care, severe polytrauma, critical patients, and sports medicine ensuring the highest quality, safety, and speed on professional racing tracks.

The new mobile hospital will be added to the specialized medical services available for immediate assistance on the track. Since 2013, Quirónsalud rendered these services for MotoGP World Championships using medical vehicles.







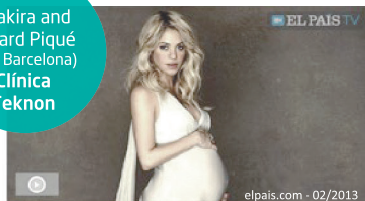
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# Prominent personalities

# PROMINENT PERSONALITIES TRUST IN OUR EXPERT HANDS

Numerous notable personalities from different walks of life choose Quirónsalud health centers when they need to recover from illness or injury or are giving birth to their children. Time and again, the medical excellence and painstaking attention to detail we offer make us their provider of choice. The Spanish royal family, footballers, internationally renowned singers, and motorcyclists are just some of the celebrities who put their trust in Quirónsalud to look after their health and that of their families.

Shakira and Gerard Piqué  
(F.C. Barcelona)  
Clínica Teknon



elpais.com - 02/2013

Cristiano Ronaldo  
(Real Madrid)  
and Georgina Rodríguez  
Hospital Universitario  
Quirónsalud Madrid



hellomagazine.com - 11/2017

Thiago  
(FC Bayern Munich)  
Hospital Quirónsalud  
Barcelona



goal.com - 10/2014

Leo Messi  
(FC Barcelona)  
and Antonella Rocuzzo  
Hospital Universitari  
Dexeus



mundodeportivo.com - 11/2017

Xabi Alonso  
(Real Madrid)  
Hospital Quirónsalud  
Murcia



as.com - 08/2013

Juan Carlos de  
Borbón, King Emeritus  
of Spain  
Hospital Universitario  
Quirónsalud Madrid



elpais.com - 10/2013

Marc Márquez  
(MotoGP)  
Hospital Universitari  
Dexeus



mundodeportivo.com - 12/2013

Pep Guardiola  
(FC Barcelona)  
Hospital Universitari  
Dexeus



rtve.es - 03/2011

Iker Casillas  
(Real Madrid)  
and Sara Carbonero  
Hospital Ruber  
Internacional



lecturas.com - 06/2016

Jorge Lorenzo  
(MotoGP)  
Hospital Universitari  
Dexeus



elmundo.es - 06/2013

Felipe and Letizia,  
King and Queen  
of Spain  
Hospital Ruber  
Internacional



rtve.es - 10/2005

Alejandro Sanz  
and Raquel Perera  
Hospital Ruber  
Internacional



abc.es - 07/2014





