

MISSION STATEMENT

2016

Gemelli



Fondazione Policlinico Universitario A. Gemelli
Università Cattolica del Sacro Cuore

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2016

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Università Cattolica del Sacro Cuore

SUMMARY

1. Investing In Excellence

Working in the Present, Looking to the Future 8

A Day at Gemelli 9

Identity Card 10

Value Generated and Value Distributed 12

Working Community 13

A Growing Organization 14

Environmental Sustainability 15

Social Sustainability 16

2. The Care System

The Patient at the Center 20

Private Practice 23

Ageing, Neurosciences, Head-Neck
and Orthopaedics Sciences Department 24

Cardiovascular
and Thoracic Sciences Department 26

Gastroenterology, Endocrinology and Metabolic
Diseases Sciences Department 28

Women and Child Health Sciences Department ... 30

Rheumatology, Immunology, Dermatology, Urology
and Nephrology Sciences Department 32

Oncology and Haematology Sciences Department ... 34

Imaging, Laboratory and Infectious Diseases
Sciences Department 36

Internal Medicine, Anaesthesiology, Intensive Care
and Emergency Sciences Department 38

The Emergency Area (A&E) 40

3. Research, Innovation, Communication

National and International Research 44

Patient Oriented Innovation 46

Inform, Communicate, Involve 49

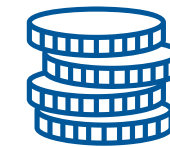
READING GUIDE

At the end of 2016, the first full year of operations for Fondazione Policlinico Universitario Agostino Gemelli, the mission statement presented a dual objective: to provide an account of the first tangible results of the new model of governance for all stakeholders - Patients and their Families, Collaborators, Institutions, Suppliers and the Community - while at the same time presenting the Organizational model for the clinical assistance services on offer, redesigned in Departments and Areas, creating a system for the multidisciplinary skills that coexist in the Hospital. Chapter 2 takes a closer look at the specific features and merits of this new structure, with the report on operations in 2016: a story told through images and numbers that leads the reader through the daily life and values of the Foundation.

CHAPTER

1

INVESTING
IN EXCELLENCE: HOW TO
CONTINUE
TO SET THE STANDARDS
IN AN AGE
OF RADICAL CHANGE



653,092,000 €

Production value



5,285

Total employees
(+97 units compared
to 2015)



109,000

Hours of
Personnel training



66%

Reduction
in consumption
of electricity
for external lighting



THAN 40

Active non-profit
organizations
in the hospital

WORKING IN THE PRESENT, LOOKING TO THE FUTURE

GOVERNANCE

Board of Directors

Giovanni Raimondi
(Chairman)

Franco Anelli

Alessandro Azzi

Rocco Domenico Alfonso
Bellantone

Vincenzo Giovanni Cesareo

Carlo Fratta Pasini

Antonio Gasbarrini

Fabio Lenzi

Gianni Letta

Cesare Mirabelli

Alfredo Pontecorvi

Management

Enrico Zampedri
(General Manager)

Board of Auditors

Massimo Porfiri
(Chairman)

Roberto Alessandrini

Lelio Fornabaio

Adriano Propersi

Massimo Vincenti

2016 represented the first full year of operations for the Fondazione Policlinico Universitario Agostino Gemelli, a private, non-profit organisation founded by the Università Cattolica del Sacro Cuore and by the Istituto Giuseppe Toniolo di Studi Superiori. For all intents and purposes, the Foundation assumed ownership and management of the Hospital from 1st August 2015.

The new governance came into being with the objective of giving the Hospital the autonomy necessary to handle increasing complexity, be it in terms of its structure or operations, concentrating on economic and financial sustainability in its operations, and on facing the challenges presented by a rapidly evolving healthcare setting.

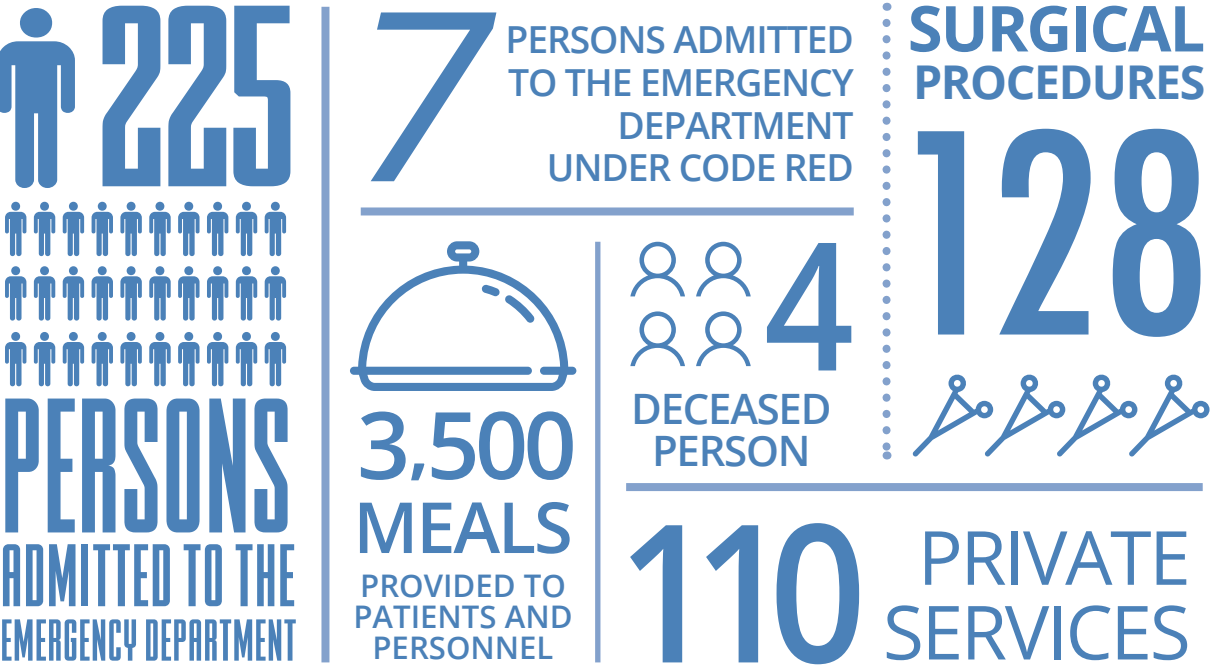
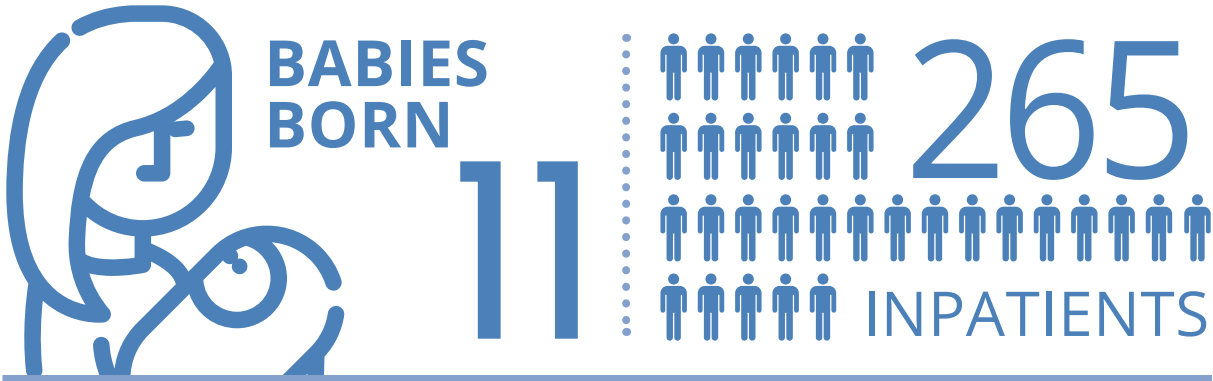
The operational processes of the Foundation were established based on the 2015-2019 Industrial Plan approved by the Università Cattolica in December 2014, and was the subject of on-going adjustments over the first part of financial year 2015 and over the course of 2016 in relation to the development of the Foundation, and of the health and social context within which it works.

The Plan fits into a series of business actions with a different

projection period in order to focus on its reinforcement, while at the same time defining the actions needed for future growth. The plan makes use of the necessary management tools to maintain a situation of economic and financial sustainability in the short term, but also incorporates the future structure of the Hospital with a view to preserving its status as a university structure, its existing professional and technological assets and to consolidate its leading position within the Regional and National Health System, improving its profitability profile by building new lines of business.

In addition to these two main focal points, 2016 was characterised by other important actions such as the establishment of the Foundation financial structure, the development of private practices, the renegotiation of important contracts for the supply of goods and services, the review of a large portion of the supporting processes and of the new organisational structure in Departments and Areas.

A DAY AT GEMELLI

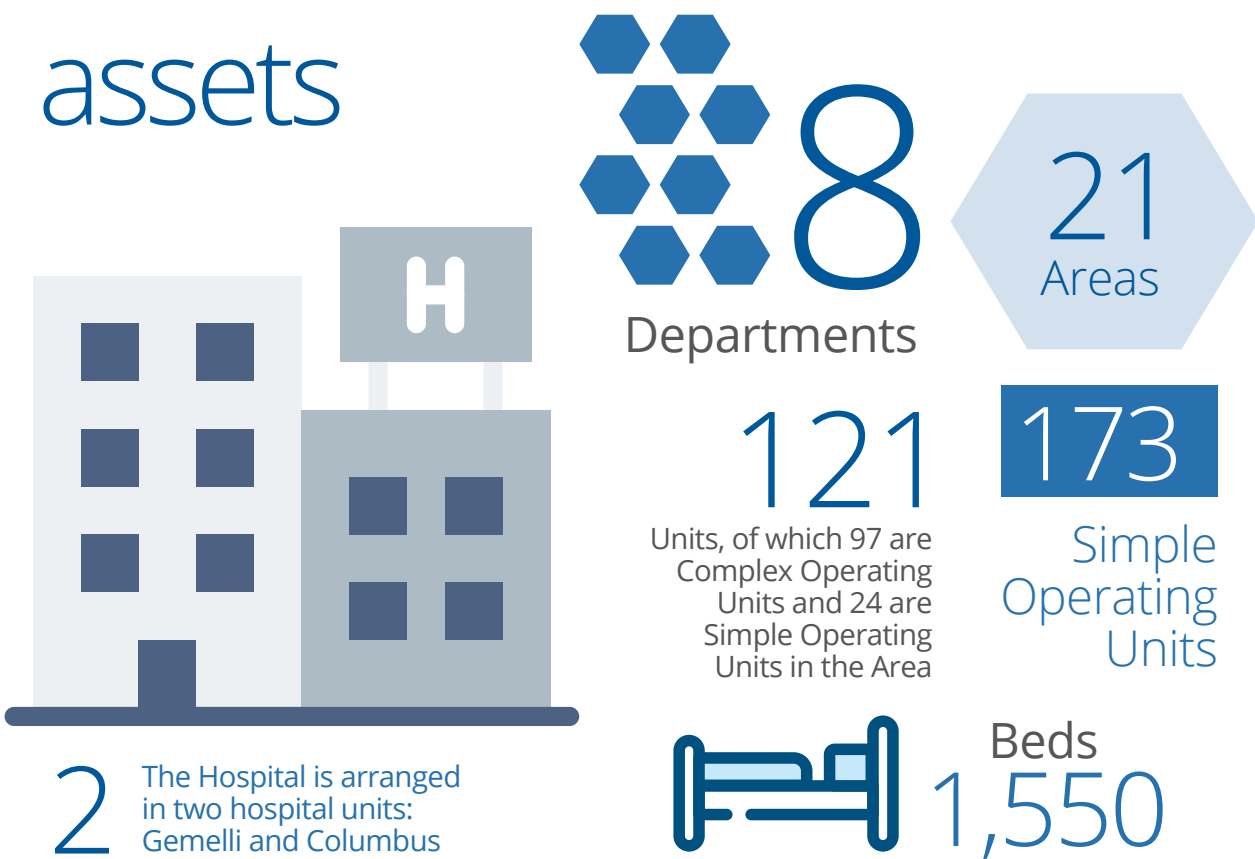


IDENTITY CARD

mission

The mission of the Fondazione Policlinico Universitario Agostino Gemelli is to offer patients dedication, excellence and a high level of specialisation in treatment, promoting constant innovation in medicine and creating the health professionals of the future. The Foundation is the place where scientific and technical skills, human sensitivity, and catholic ethics and values are the motivating factors in the commitment to service for all through outstanding, accessible treatment in the community.

assets



values



aims

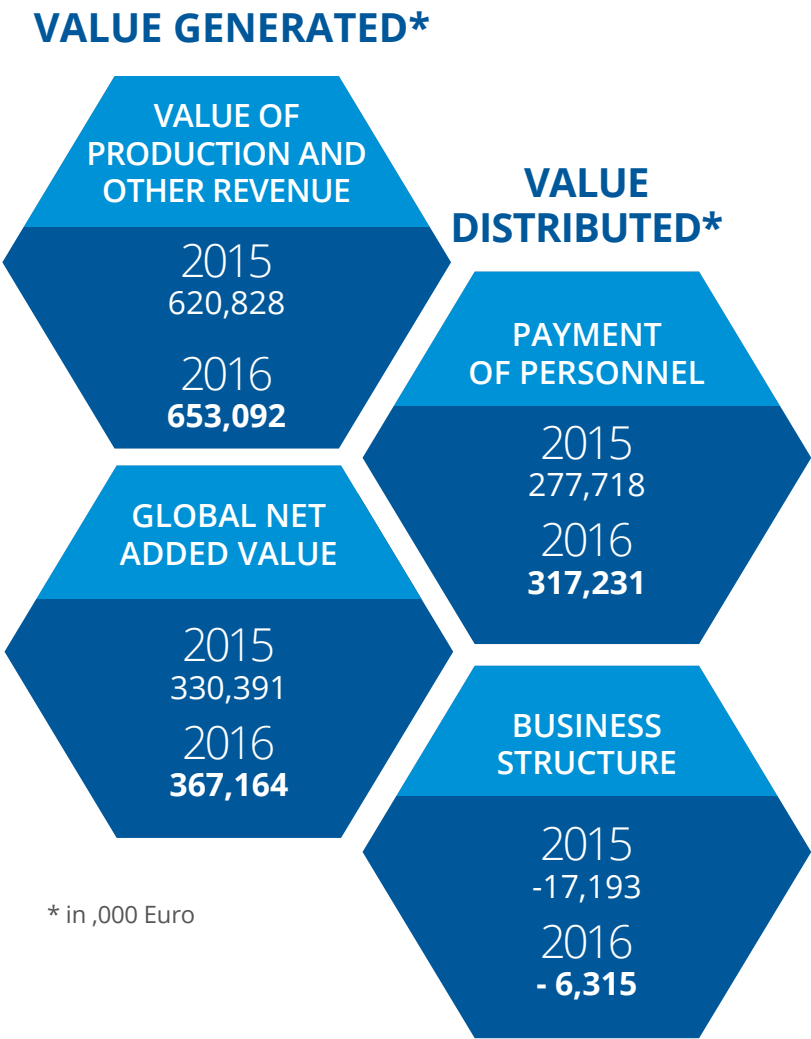
The Fondazione Policlinico Universitario Agostino Gemelli works on a daily basis to translate basic needs into objectives in order to:

- guarantee patients the best response in terms of diagnosis and treatment, through multidisciplinary, effective, straightforward, efficient and dynamic treatment pathways;
- guarantee the best conditions for the development of clinical research and teaching to the highest levels both nationally and internationally;
- ensure the most effective control and governance of resources in order to achieve the pre-set objectives.

VALUE GENERATED AND VALUE DISTRIBUTED

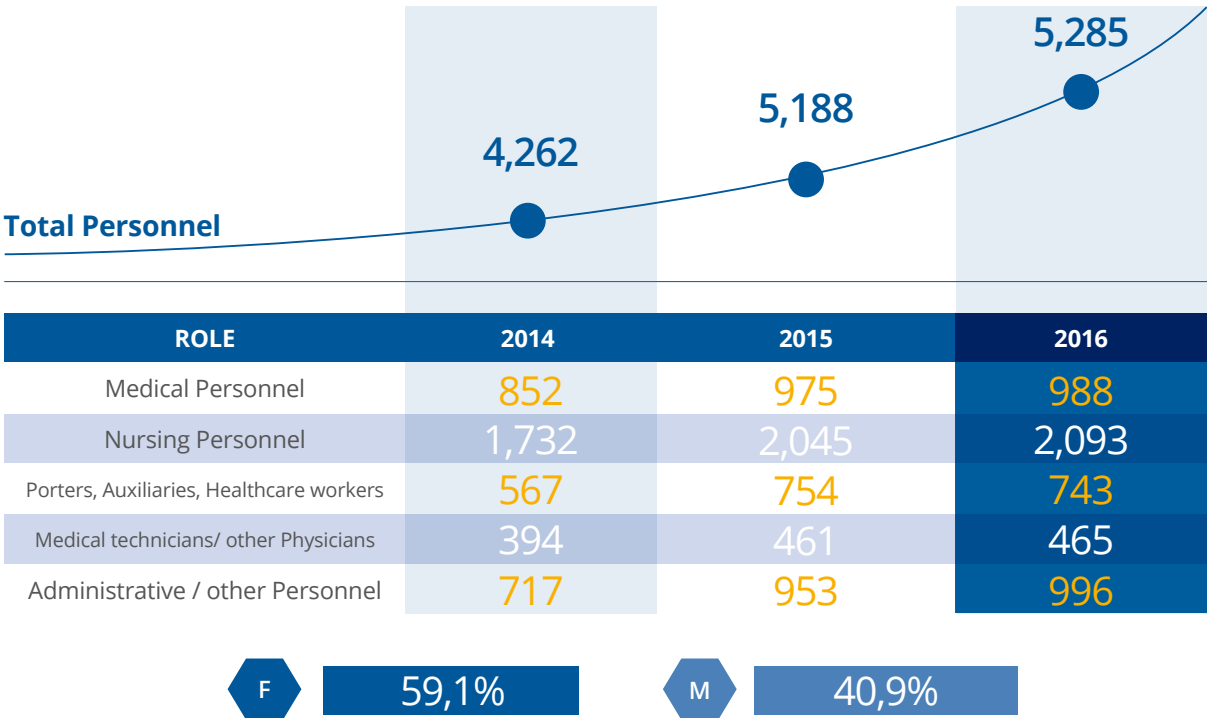
The Added Value denotes all resources or economic data that make it possible to cover payment of individuals, essentials and production costs of the corporate system. In financial year 2016, the global net added value produced by the Foundation grew by more than 11%, increasing from 330 million to 367 million Euro. The Added Value was allocated to:

- the payment of personnel, which represents the most prominent item, absorbing more than 85% of the Added Value produced, with a rise of around 14%, mainly due to the fees, for the entirety of 2016, of the personnel at the Columbus site, to recruitment over the course of 2016 and the consequent internalisation of activities previously undertaken by external suppliers;
- the payment of the Public Administration, primarily constituting the indirect taxation levied on the Foundation as a result of the tax on the Added Value for the acquisition of goods and services. With regard to 2016, a reduction can be seen in the contribution to the Public Administration attributable to the minor impact of Irap regional tax, as a result of the required upgrade to the Foundation's tax liability;



- the payment of loan capital, which is expected to reduce slightly, on the one hand, from the interest on delayed payment for the provision of goods and services, and on the other from better rebates achieved over the period due to cash payments;
- payments to the community and the environment, including the charitable donations made and the effect of environmentally sustainable initiatives on the territory, produced by means of identification of the associated costs;
- the business structure, which shows an improved budgetary outturn in relation to the previous year.

WORKING COMMUNITY



A CHANGE OF MINDSET

In 2016, the Foundation redefined Employment Contracts for all categories of the Hospital's employees by introducing important changes in regulations, management and finance intended to:

- confirm the level of unique collective negotiation;
- introduce new dynamics in fair employment practices (promoting merit, increasing productivity);
- envisage a new remunerative structure (employee welfare) designed to satisfy the requirements of each employee (restricted to non-managerial Personnel).

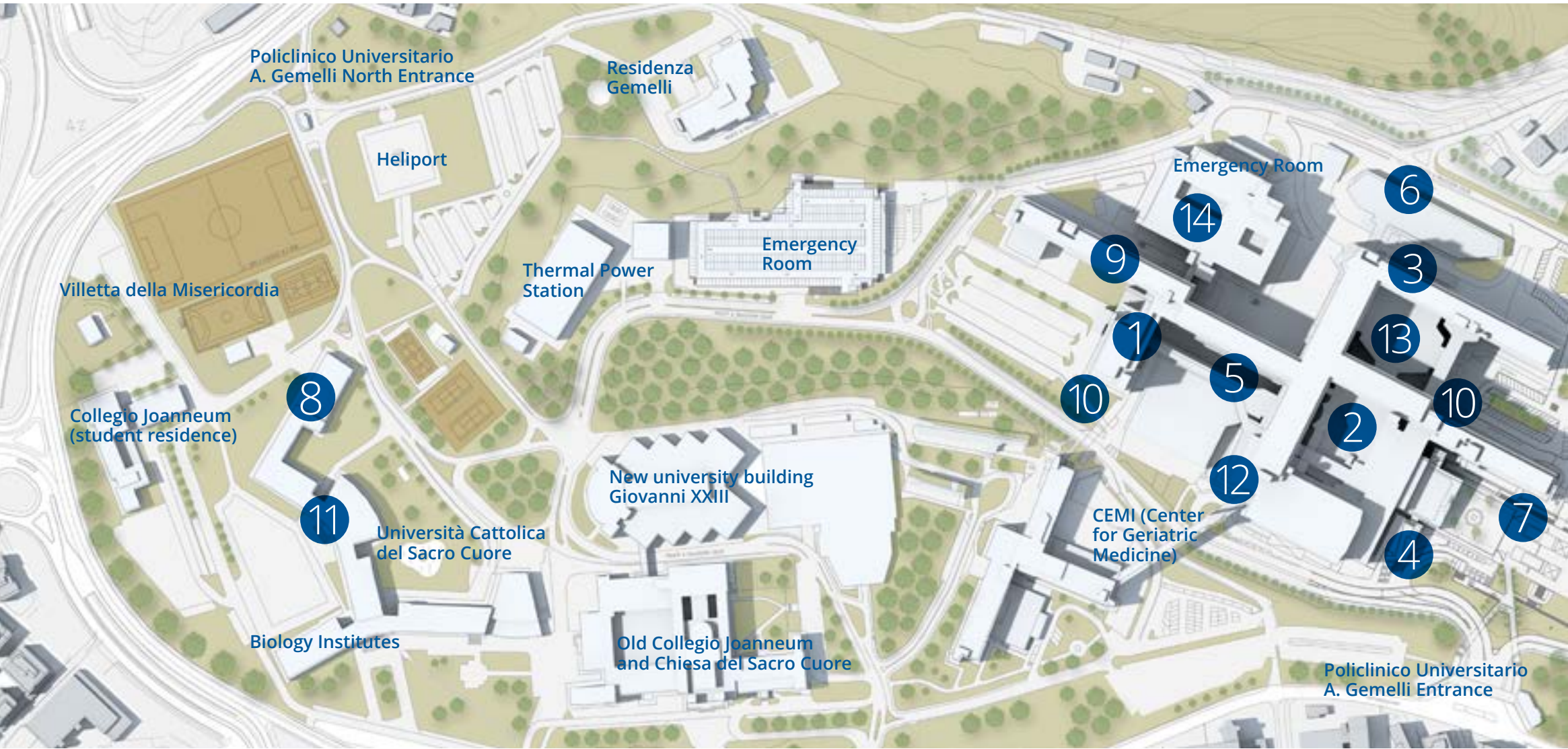
EMPLOYEE WELFARE

In the new definition of the collective agreements, an important aspect concerns the structuring of a clear Welfare Plan which sets aside an annual amount of 150 Euro for nonmanagerial personnel to use in accordance with "flexible benefit".

Employees have facilitated access to various benefits and can make use of the sums made available by the Welfare Plan through an online portal. In the Welfare Plan for the 3-year period 2017-2019, a further plan was put in place for accessing dental care at discounted rates.

TRAINING

The 2016 Training Plan invested in the competencies necessary for personnel to present themselves in a competitive manner in the global healthcare sector. A mapping of more than 800 people's competencies allowed for the modulation of training programmes on communication, teamwork, job profile development, IT and English, and for over 1,000 hours of training in the SIMLAB Simulation Center. Confirmed investment in training on safety, on Law 231, and on topics of institutional accreditation, promoted in the broadest approach of Risk Management.



A GROWING ORGANIZATION

The Policlinico Universitario A. Gemelli and the Presidio Columbus are bodies undergoing continual transformation. Below are some of the wards and clinics that have undergone the most significant structural changes over the course of 2016.

- 1

Proctology and Urogynaecology Clinic (new ward of 560 m2)
- 2

Dermatology Clinic (renovation)
- 3

New Private Ward
- 4

2 New Radiotherapy Bunkers
- 5

New Intensive Therapy
- 6

New Goods and Logistics Reception
- 7

Nuclear Medicine
- 8

Medical Legal Service
- 9

Hospital Stays
- 10

Clinical Trials
- 11

New Classrooms
- 12

New Library
- 13

New Catering Service
- 14

Hormone Analysis and Molecular Biology Laboratory



ENVIRONMENTAL SUSTAINABILITY

With 30,000 inhabitants, the Policlinico Universitario A. Gemelli can be considered a town in its own right. Each year it consumes around 50 million kWh and 16 million cubic metres of natural gas. Its co-generation system provides around 60% of the energy the Hospital needs for electricity, heating and cooling, making it one of the largest infrastructures of this kind in the civil and hospital sectors in Italy. The environmental sustainability process included meeting atmospheric pollution emission (NOX) targets by fitting a “Low Nox” system. This harnesses electronically regulated burners to control oxygen automatically, while simultaneously cutting combustion temperatures and limiting the amount of heat-generated NOX gases.

Over the course of 2016, a general plan for energy measurement was initiated. The installation of electrical and thermal energy meters will provide a perfect overview of consumption, allowing for energy resources to be managed more efficiently. The first teaching hospital in Italy, the Hospital has obtained ISO 50001 certification, which certifies that its Energy Management System conforms with legal standards. In addition, the medium voltage electricity network is being upgraded to the SMART GRID type, reducing energy waste with specific overall savings of 2%. A donation made by a supplier allowed traditional lighting to be replaced with LED lights: this intervention allowed for a 66% reduction in electricity consumption, a saving of more than 246 tonnes of CO2 emitted every year and improvements to street lighting. In fact, in 2016, the Foundation took part in the national campaign for energy efficiency, “Italia in Classe A”, supported by the Ministry of Economic Development and carried out by ENEA (Italian National Agency for New Technologies, Energy and Sustainable Economic Development).

SOCIAL SUSTAINABILITY



The centrality of the individual and his/her needs are the fundamental values of the work carried out by the Fondazione Policlinico Universitario Agostino Gemelli. Naturally, then, attention is first paid to the weakest and most marginalised individuals with care that goes beyond the medical aspect in order to fully meet their needs.

This is made possible by response models based on solidarity, with an effort of

gratuitousness on the part of the Foundation's personnel as well as an important network of for profit and non profit actors.

The recognition of the centrality of the individual, seen in his/her physical and spiritual integrity, is equally expressed by the religious care services available to patients. Whether Catholic or other religious faiths, the care is in accordance with the recommendations of a policy that also concerns regulations covering dietary requirements

and care of patients of other religions and cultures, in life and death.

During 2016, the website donaora.policlinicogemelli.it was launched. It features a secure online payment platform in support of the solidarity initiatives of the Foundation. PayPal and any credit card are accepted.



Fondo Carità

Promoted and supported by the Foundation yet open to the sensibilities of all, the Fondo Carità was established to respond quickly and directly to the needs of individual patients and their families in difficult financial or social circumstances: the funds raised are used for every possible need, from the purchase of medication, to support for orphans or the needy, to a relative's funeral costs.



Villetta della Misericordia

The free overnight shelter offered by the Fondazione Policlinico Universitario Agostino Gemelli and managed by the Community of Sant'Egidio was created for the admission, recovery and social rehabilitation of deprived and homeless people. Competently trained voluntary workers accompany patients throughout their social rehabilitation, and when necessary, in their medical care.



5XMille and Research

Donating your 5xMille (a regular donation deducted from income tax) to the Fondazione Policlinico Universitario Agostino Gemelli means supporting an organisation whose care and research is at the service of humanity, its very mission. The funds raised, in addition to those from 5xMille, will support research for more accessible cures and increasingly innovative technology, and will provide the Hospital with even more modern and efficient equipment.

CHAPTER

2

THE ORGANIZATION
INTO DEPARTMENTS
AND AREAS IS PROVIDING
A SUSTAINABLE
RESPONSE TO NEW CARE
NEEDS, COMBINING
SPECIALISATION WITH
A MULTIDISCIPLINARY
APPROACH

1,550

Beds
of which

1,369

Inpatient hospitalisation

141

Day Hospital

90%

Rate of occupation
of beds

Outpatient
services

9,626,997

of which

63.5%

for internal

36.5%

for external

7.40 DAYS

Average stay
in Inpatient
Hospitalisation

96,574

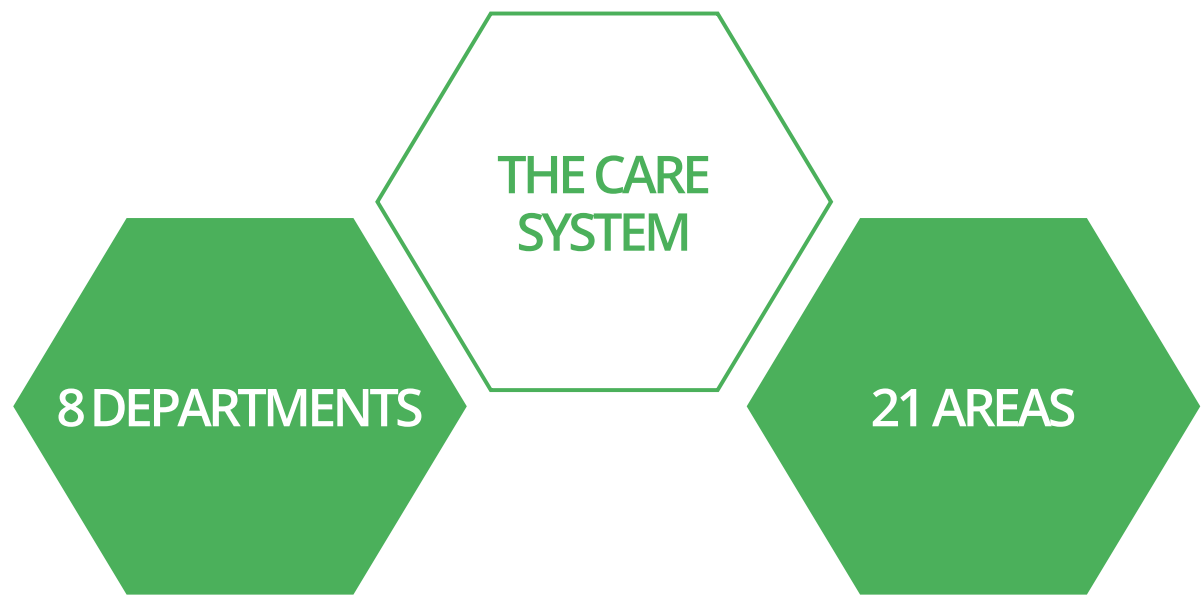
Total discharged
from acute care

60,490

Inpatient Hospitalisation

35,442 Day Hospital

642 Rehabilitation



THE PATIENT
AT THE CENTER

The reorganisation implemented by the Foundation is redefining the clinical care provision, putting patients and their needs at the center: transcending the concept of a “vertical” hospital divided into self-serving Departments, the new model is adopting a multidisciplinary approach that promotes the transversality of comparison and operation and divides responsibilities between Operational Units on two levels, one for clinical/scientific coordination (8 Departments) and one that is more operational (21 Areas).

CLINICAL CARE PATHWAYS (CCP)
For the purposes of care and research, integration between the Foundation and the main pathology and national and regional patient networks is reinforced according to the multidisciplinary and inter-professional organisational methods of the CCP (Clinical Care Pathways), which design, integrate and evaluate all stages of treatment for major health problems.

Since 2013, the year in which a Clinical Care Pathway Unit became active, the Hospital has set up 31 CCP's, offering a more effective sequence of actions and interventions in patient care based on the best evidence available. The new CCP set up in 2016 are intended for patients

with: Malignant Bladder Cancer, Cerebral Tumours in Children (thanks to the support of the "30 Ore per la Vita Onlus"), Cerebral Tumours in Adults, Psoriasis and Hereditary Haemorrhagic Teleangiectasia (HHT). For each Clinical Treatment Pathway, the Hospital sets up bi-annual meetings

SURGICAL
PROCEDURES



TOTAL
46,696



ACCREDITATION
AND CERTIFICATION

to assess the implementation of the pathway using valid process indicators, and to specify the necessary actions for improvement.

TECNOVISITA

The Tecnovisita service was set up in 2016. It facilitates remote visits and check ups planned via an internet connection and use of a PC or Tablet. This service means that patients can have direct contact with Foundation's specialists without leaving their homes, with total respect for privacy, thus reducing travel times, costs and inconvenience. In practice, the specialist carries out the visit through the video conferencing service, viewing the patient documentation in advance.

The Tecnovisita service also ensures innovative support in the management of chronic conditions, improved continuity of care, and the possibility of providing telematic support for rehabilitation. The purpose of the service is to improve quality of life for patients and their families, reaching out to their homes and coordinating their care by means of the local structures.

SPORTELLO CANCRO

The Sportello Cancro is a service provided by the Fondazione Policlinico Universitario A. Gemelli which promotes access to an initial multidisciplinary evaluation of oncological pathways for patients that have already been diagnosed. It is

The Analysis Department II – Microbiology and Virology – is ISO 9001:2008 certified

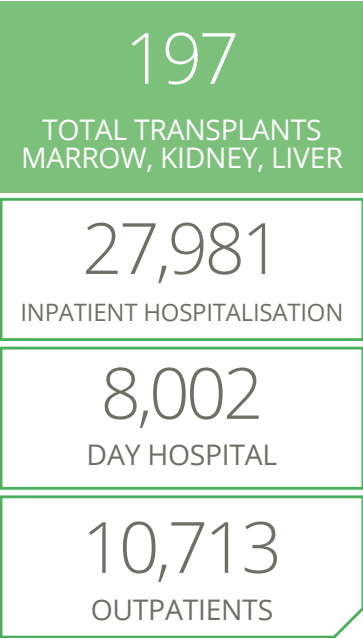
The UNICATT Cord Blood Bank is ISO 9001:2008 certified and accredited with the National Transplant Centre (CNT)

The Blood Transfusion Service is ISO 9001:2008 certified and accredited with the Regional Health Service

The Stem Cell Transplant Programme is JACIE and CNT - accredited

The HLA Blood Typing Laboratory (Haematology Department) is EFI accredited

The Building and Systems Maintenance Service is ISO 9001:2008 accredited



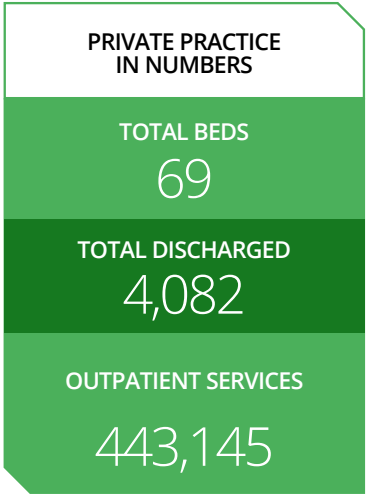
possible to book and receive a visit within 72 hours when there is a challenging condition requiring urgent medical care. In addition, where the conditions of patients and/or their family members require so, the Foundation offers the possibility of being driven to the outpatient clinics/wards by volunteers free of charge. Cancers for which access to the Hospital's Cancer Desk is possible include the following anatomical-organic areas: hemolymphopoietic system, breast, lung, uterus/ovary/vulva, colon, rectum, bones

and muscles, as well as adult and child brain tumours (thanks to the support of the "30 Ore per la Vita Onlus"). The principles and activities carried out in the field of oncology are explained in the first edition of the *Libro Bianco dell'Oncologia del Gemelli*, an ebook that uses videos and multimedia links to describe how the Hospital practitioners care for the cancer patient from a clinical point of view, but also a human one. The ebook can be downloaded from the homepage of the site www.policlinicogemelli.it.

PRIVATE PRACTICE

With the introduction of the Private Practice and Customer Service Department in 2016, there was a strong desire to structure the activities aimed at patients wishing to benefit from private treatment and care services offered by the Hospital, and new legislation relating to intra-moenia professional activities was introduced.

The Fondazione Policlinico Universitario A. Gemelli makes its entire range of activities available to private patients, whether outpatients, surgical, or in recovery (over 1,200 surgical procedures and 1,250 outpatient services), allowing patients to choose the professional who will monitor them in over the course of their treatment. The services apply both to patients covering their own costs and patients covered by supplementary healthcare funding or health policies contracted with insurance companies.



Within the Hospital there are 4 Private Health Care Departments, spaces designed to meet patient comfort and privacy needs, guaranteeing - in addition to excellent medical and surgical care - a hotel standard of hospitality and flexibility of visiting times.

Private business development has also entailed an internal organisation of back office efficiency, supporting the doctors and professionals involved in this field, and a development in infrastructure, which guarantees high level hospitality and care for patients according to the highest standards of quality.

Individual services are now embedded into specific diagnostic packages, for example, the Diabetes Package or the Cholesterol Package, the Thyroid Package or the Cardiovascular Risk Assessment, designed to address specific issues and aimed at structuring prevention and care pathways. Finally, for employees of the Foundation and their family members, a discount of 10 to 25% has been introduced for outpatients, dental and hospital admissions, and surgical procedures required privately.

The complete offer available to private individuals, including how to book various services and their respective prices, can be viewed on the website: www.privato.policlinicogemelli.it

Residenza Gemelli

It is the hotel facility available to patients and their families who need accommodation within the Hospital, located within the Medicine and Surgery Campus of the Università Cattolica del Sacro Cuore, it provides a 24-hour welcome.

Digitisation of payment services

Electronic payments and an on-line invoicing system for private activities carried out in external studies and nursing homes were introduced in 2016, enabling greater accuracy in reporting and a quicker remuneration process.



AGEING, NEUROSCIENCES, HEAD-NECK AND ORTHOPAEDICS SCIENCES DEPARTMENT

The Department represents a unique reality in Italy for its capacity to offer organized answers to the most formidable epidemiological phenomenon of recent years: ageing. This means systemizing a broad range of disciplines and expertise regarding pathologies and care needs of the older population, generally fragile and suffering from various conditions, through a transversal approach. Within the Department, the Head-Neck Area and the Neurosciences Area bring fundamental knowledge to the geriatric activities and represents more in general an excellence for its quality and for the complexity of the clinical, surgical and research activities, even on the younger population.

AGEING, ORTHOPAEDICS AND REHABILITATION AREA

The Geriatric Area is hosted in the Centro di Medicina dell'Invecchiamento or Anti-Ageing Medical Center (C.E.M.I.). In addition to the Geriatric COU, the Center has a Continued Assistance COU, a Simple Operating Unit Area (SOUA) for Physical Activities & Maintenance where the Gemelli Physiotherapy Center offers patients of all ages a treatment, rehabilitation and maintenance plan. There is also the Geriatric Day

Hospital, which welcomes patients with exacerbating multiple pathologies (multi-morbidity), and carries out the diagnostic and therapeutic activity. The Geriatrics Department also include the vertebral surgery's COU and the Orthopaedic COU. Collaborating with the latter are also the Shoulder Surgery and COU of the Orthopaedics and Hand Surgery specialized in pathologies of the bones, nerves and tendons of the upper limbs and in particular of the hand.

HEAD-NECK AREA

The Head -Neck Area shows many excellences both from the point of view of care and research. This includes the Ophthalmology COU where treatment and research activities are carried out in all branches of ophthalmology. The Otorhinolaryngology (ENT) Clinic is a centre of excellence in the field of oncological pathologies of the head and neck: within it operates an Audiology service where, in addition to diagnoses of paediatric and elderly patients with hearing problems, an average of 25 patients receive cochlear implants every year. The operative excellence of the COU of the Maxillofacial Surgery Department the operative







is represented by the therapeutic treatment of malformations of the face and of the craniofacial complex (labiopalatoschisis and craniostenosis). The Dental Clinic treats patients with dental problems caused by carious pathologies, by the presence of malocclusions, by gnathological disorders with particular attention to patients with disabilities (Down Syndrome patients).

NEUROSCIENCES AREA

Operating in this Area are experts in the diagnosis, treatment and follow-up of the most frequently detected pathologies (stroke, epilepsy, migraine, movement disorders, Parkinson's, Alzheimer's, Multiple Sclerosis, ALS, neuropathies), as well as in the field of memory, dementia and degenerative diseases of the brain. The Department is confirmed as a cutting edge reality in the international project regarding the artificial robotic hand (known as the Nebias project).

The NeMO Adult Clinical Center characterises the high specialization levels of diagnosis and management of problems connected to the evolution of neuromuscular diseases (multiple sclerosis, inflammatory conditions of the peripheral nerves, rare diseases, movement disorders and muscular dystrophies). Within the Area, the Adult and Paediatric Neurosurgery Unit is active in surgery, post-surgery and clinical research on brain and spinal tumours, along with research on brain and spinal vascular malformations, pituitary gland adenomas, spinal degeneration pathologies, hydrocephalus and epilepsy, while experimenting new approaches on craniocervical and spinal surgery. All these new surgical therapies are based on the most modern neurophysiological intra-surgery monitoring (neuro navigation, endoscopic equipment and other hi-tech equipment). The Neurotraumatology and Neurosurgery COU is active in the treatment of severe head injuries, followed by cranioplasty for patients with skull defects after a cranial decompression operation and cerebrospinal fluid infusion tests during diagnosis, and in the treatment of diseases of the circulation dynamics of cerebrospinal fluid. The Area also operates a COU for Psychiatric Assessment that treats a vast range of mental health problems and guarantees a response to emerging pathologies such as gambling addictions.

DEPARTMENT'S ACTIVITIES

Beds       **311**

of which

 **30** for rehabilitation

21,020 
TOTAL DISCHARGED

of which

 **9,701**
DAY HOSPITAL

% 18.3 total discharged outside the Region

 **365,366**
OUTPATIENT SERVICES

 **NEUROLOGICAL INTENSIVE CARE (STROKE)** **8**

250  **20,009**
SURGICAL TREATMENTS OF CEREBRAL AND SPINAL TUMOURS **SURGICAL PROCEDURES**

50 **SURGICAL TREATMENTS OF CHILDREN WITH NEURO-ONCOLOGICAL PATHOLOGIES**



CARDIOVASCULAR AND THORACIC SCIENCES DEPARTMENT

With an innovative and multidisciplinary approach, the Department includes professionals at the service of patients with heart, vascular and thoracic conditions. The team approach, the re-engineering of the diagnosis and therapeutic process, together with the availability of a Hybrid Surgical Theatre, which manages multidisciplinary surgical activities, has allowed the Cardiovascular Area to pursue treatment pathways that put the patient at the center of the process.

CARDIOVASCULAR AREA

The Cardiovascular Area runs the diagnostics and therapy of all adult pathologies. A team approach

adopts a group discussion method on the more complex cases through daily meeting involving cardiac surgeons, cardiologists, vascular surgeons and cardiac anaesthetist (known as the "Heart Team") tailoring for every single patient the best available diagnostic-therapeutic sequence. The same activities of the Hybrid Operating Room, among the largest and most modern in Europe, follows this horizontal approach to treatment, which translates, on a technical and technological level, into a progressive evolution towards minimally invasive surgery. Also thanks to the work of the heart team, out of 700 open heart surgery procedures, less than 1% mortality was recorded, more than halving the previous average.

Among the highlights of 2016 was the inauguration of the new Heart Surgery Intensive Care Unit run by the Department's cardiac anaesthesiology, the opening of a cardio-genetic clinic that uses innovative techniques in genetic testing, whereas in the field of research highlights the study on patients with angina and infarction in absence of coronary obstructions. In this ambit, the specialists of the Area were the first to demonstrate that in up to 50% of angina patients and up to 10% of infarctions the cause of the symptoms is represented by an alteration of the coronary microcirculation, a finding adopted by the latest guidelines of the European Society of Cardiology.



The Heart Surgery's COU, finally, performs a Hub functions for cardiovascular emergency in a territory populated by 1.5 million people, only center in the Region (together with the Ospedale Pediatrico Bambino Gesù) specialized in the treatment of Grown Up Congenital Heart Disease (GUCH), and only regional center with a Clinical Path specialized in the treatment of refractory cardiac arrest.

THORAX AREA

This department deals with a wide range of pathologies of the lungs, very frequent in the population, and of rarer pathologies, which together, however, represent about 30% of common pathologies. An important research program is being developed by the Thorax Area on the theme of personalized pharmacological Therapy in patients with COPD based on phenotyping. Within the Area, for primitive and secondary pulmonary neoplasia, the Clinical and Care Path has been operative for years for diagnostic assessment, formulation and implementation of the treatment plan.

Among the clinical excellences, besides the innovative management of patients suffering from pulmonary fibrosis, the National Patient Outcome Program (Programma Nazionale Esiti), with placement in the best segment for re-hospitalization and mortality rate 30 days from hospitalization for worsening BPCO conditions.

DEPARTMENT'S ACTIVITIES

Beds       **155**

of which

 **10** for rehabilitation

6,136 
TOTAL DISCHARGED

3,186 
haemodynamic procedures

550 **ELECTROSTIMULATION PROCEDURES**

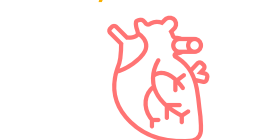
ELECTROPHYSIOLOGY PROCEDURES 360

 **123,505**
OUTPATIENT SERVICES

 **2,245**
SURGICAL PROCEDURES

of which

1,407



Cardiovascular
Area

838



Thorax
Area



GASTROENTEROLOGY, ENDOCRINOLOGY AND METABOLIC DISEASES SCIENCES DEPARTMENT

The close integration between medical and surgical activities for all conditions concerning digestion form the distinctive characterization and great strength of the Department where diagnostic, therapeutic and research activities, are carried out in three main types of pathologies: oncological pathology of the digestive system and endocrine-metabolic pathology, inflammatory functional pathology of the digestive system and metabolism disorders (obesity and diabetes). For each pathology, the Department can offer the best expertise.

GASTROENTEROLOGY AND ABDOMINAL SURGERY AREA

The two Areas, distinct but closely correlated, are part of the Policlinico Universitario A. Gemelli, an international point of reference for all pathologies of the digestive system and liver as well as national leader in scientific production activities. The Gastroenterology department of the Hospital is the Center of Reference for Chronic Inflammatory Bowel Disease (IBD), for the management and treatment of Hepatitis C, for the management of complex pathologies

of the liver and biliary tracts, for Microbiota Transplant in antibiotic-resistant infections, in Celiac disorder and gluten intolerance. The Digestive Endoscopy Department's COU, important international center for the endoscopic treatment of pathologies of the small intestine (with focus on occult bleeding) and of inflammatory and neoplastic pathologies of the colon, also specialized in complex disorders of the oesophagus such as dyskinesia with particular attention to endoscopic surgery of the achalasia, Zenker diverticulum and Gastroesophageal reflux disorders. Also the Abdominal Surgery Area has recorded various excellences at national level: the Hospital is among the leading Centres in Italy for the treatment of cancer of the stomach, cancer of the rectum and cancer of the colon. In the applied clinical research field, focus has been given to the minimally invasive Proctology surgery for the Sphin Keeper, a small prosthesis implanted in the anal canal to treat patients with faecal incontinence.

The Gastroenterology Area, finally, is provided with a unit dedicated to Clinical Nutrition for treating overweight, insulin-resistance patients as well as patients suffering from malnutrition.





















ENDOCRINOLOGY

AND DISORDERS OF THE METABOLISM AREA

The Area boasts one of the main Italian casuistries in the management and medical-therapeutic management of thyroid pathologies (national centre of reference), of the adrenal gland and of the pituitary gland, also with endoscopic, minimally invasive and robotic surgery techniques.

In addition, there is a program for the management of the main dyslipidaemia with particular reference to alterations of the diabetic patient's lipid profile and with metabolic syndrome in addition to dietary disorders, and endocrine pathologies in children and the management of pathological obesity with a clinical expertise of excellence.

DEPARTMENT'S ACTIVITIES

Beds                     **250**

15,240 
TOTAL DISCHARGED

of which

 **4,001**
DAY HOSPITAL

% 24.8 total discharged outside the Region

142,766 
OUTPATIENT SERVICES

 **7,595**
SURGICAL PROCEDURES

36 **LIVER TRANSPLANTS*** 

**The Hospital is one of the Liver Transplant Centers of the Lazio Region, and is the Center of Reference of the Abruzzo Region*



WOMEN AND CHILD HEALTH SCIENCES DEPARTMENT

The Department's complex deals with all the health issues of women and children. In addition to obstetrics, gynaecology, paediatrics and neonatology, the activity responds to women's needs and pathologies through the Unit and professional experiences that range from senology to oncology, from reconstructive plastic surgery to the treatment of osteoporosis, from the pelvic floor, to eating disorders.

WOMEN'S HEALTH AREA

This is a vast range of action that accompanies the patients from adolescence to menopause

through the use of advanced technologies (such as, for example, the biomolecular characterisation of ovarian, cervical and endometrial neoplasias in different stages of development, or a surgery that opts for minimally invasive and robotic methods) and the use of therapies integrated in oncology that help to better tolerate the condition, from the importance given to the nutritional aspects to the proposal of non conventional therapies (yoga, acupuncture, phytotherapy, etc)

Operating in the Department are:

- Oncological Gynaecology Unit, oriented towards







the improvement of the quality of assistance of patients with gynaecological neoplasias;

- Breast Surgery's COU specialized in prevention, diagnosis and treatment of pathologies of the breast, with particular attention to cancer;
- Plastic Surgery department's COU for post-mastectomy breast reconstructive surgery with prosthesis implant in a single operation, microsurgical reconstruction of the breast, post oncological resection microsurgical reconstruction of the head and neck and physiological microsurgery for the treatment of lymphoedema.

CHILDREN'S HEALTH AREA AND NEWBORN LIFE, OBSTETRICS AND NEONATOLOGY AREA

The other soul of the Department is that represented by the Area dedicated to children's health, which, starting from the birth path (Newborn Life, Obstetrics and Neonatology) follows the child throughout the paediatric years. The Neonatology of the Hospital is able to provide invasive and non-invasive ventilation techniques, conventional and non-conventional, nitric oxide therapy in cases of pulmonary hypertension, enteral and parenteral nutritional support dedicated to the needs of every single newborn, modern techniques for inserting central catheters, for therapeutic hypothermia interventions in case of hypoxic-hychemic encephalopathy and multi-organ sound scan. SOUA's Rare Diseases and Congenital Defects has as its care objectives the diagnosis and treatment of children with malformations, complex congenital and debilitating conditions with or without diagnosis. Paediatric Oncology's COU prevalently deals with the diagnosis and treatment of oncological and haematological pathologies in children: in collaboration with Paediatric Neurosurgery, it forms a cutting edge Department for Paediatric Neuro-Oncology thanks to the multidisciplinary participation of paediatric oncologists, neurosurgeons, radiotherapists, neuropsychologists and psychologists. In addition this area operates the NeMO Clinical Center that is an avant-garde facility for treating children affected by neuromuscular diseases.

DEPARTMENT'S ACTIVITIES

Beds       281

of which

32 IN INTENSIVE AND SUB-INTENSIVE NEONATAL CARE &

NEONATAL PATHOLOGY

14

33,252 TOTAL DISCHARGED



of which



14,495 DAY HOSPITAL

%

19.2

total discharged outside the Region



153,221

OUTPATIENT SERVICES

10,045



SURGICAL PROCEDURES

CHEMOTHERAPY TREATMENTS 7,609



BIRTHS 4,119

BABIES 4,302

BABIES ADMITTED TO NEONATOLOGY

851



RHEUMATOLOGY, IMMUNOLOGY, DERMATOLOGY, UROLOGY AND NEPHROLOGY SCIENCES DEPARTMENT

The Department deals prevalently with autoimmune chronic inflammatory diseases, allergies, and all skin diseases, rare diseases and renal diseases. The Department is focused on the whole range of inflammatory pathologies, with particular expertise in autoimmune diseases, as it can avail itself of a laboratory for the definition of cellular markers responsible for these pathologies which enables the administration of a target therapy.

UROLOGY AND NEPHROLOGY AREA

The Urology Clinic operates primarily in the therapy of urological tumours and in reconstructive surgery,

with particular focus on personalized therapy and use of the most innovative treatment technologies. Saving the organs' functions (through reconstructive surgery) is the common denominator of the Surgery Area. Among the most important research projects, as well as the development of new drugs and new therapeutic models for urological tumours, developments are highlighted in: integrated diagnosis of prostate tumours, prognostic markers of bladder and prostate cancer, conservative surgery in tumour of the kidney.

The Department's Nephrology Unit forms the most important reality in the Region, also for the number of

kidney surgeries performed and peritoneal dialysis activities administered, for nephrolithiasis, for rare kidney diseases, and is a center of reference for chronic kidney diseases, rare diseases, in particular for atypical uremic-haemolytic syndrome.





In 2016, 71 kidney transplants were performed, 18 of which from living donors with results that place the Unit among the best in Italy. Transplants are performed on ABO incompatible patients, in elderly patients prior to initiating dialysis.

RHEUMATOLOGY, ALLERGOLOGY AND DERMATOLOGY AREA


This Area is characterised by its excellence in the treatment of chronic inflammatory diseases, rheumatic, autoimmune and allergy related diseases and is the Italian Center that has most researched the definition of the biological matrixes that enable a personalised therapy for rheumatic diseases. Activities of excellence within the Area are those of the oncological dermatology service, with initial carcinoma and melanoma diagnosis with digital dermoscopy.

The Area is a recognised center for desensitization to lactic acid, to foods and hymenopters in patients at high risk of anaphylactic shock; further desensitization procedures are also applied on some indispensable and unreachable drugs. Within scientific research, a great step forward has been made with the discovery of the "molecular trigger" of rheumatoid arthritis that activates the synthesis of the noxious antibodies in the organism of patients and amplifies pathological inflammatory processes. The COU of the Rheumatology Department, was first in Italy to prove how obesity is a factor of risk of "incomplete response" to the most advanced therapies in rheumatic diseases, and is among the few centers in Europe able to tackle the problem of Obesity as a worsening condition of the rheumatic disease.

DEPARTMENT'S ACTIVITIES

Beds     102

8,608
TOTAL DISCHARGED 

of which
 4,073
DAY HOSPITAL

% 20.1 total discharged outside the Region

185,927 
OUTPATIENT SERVICES

MORE THAN 10,000
HEMODIALYSIS TREATMENTS PROVIDED

 4,930
SURGICAL PROCEDURES

600 Kidney surgery procedures
(vascular and peritoneal access for dialysis)

KIDNEY TRANSPLANTS 71
(18 of which from living donors)

Services for external patients in Rheumatology 22,000



ONCOLOGY AND HAEMATOLOGY SCIENCES DEPARTMENT

The Department is the most important multidisciplinary oncological center in Italy for number of cases treated, with a strategic position within the national and international context. The activities are organized to receive the patient from the moment of the diagnosis to the therapeutic treatment, follow-up and rehabilitation, offering the necessary psychological and social care support to sick people and their families and considering palliative care as having a central role.

HAEMATOLOGY AREA

In 2016 the Haematology Area has become part of the network of excellence of the EuroBlood

European Haematology. The Area carries up acute leukemia, lymphoma, myeloma and multiple hematologic diseases, and carries out autologous and allogeneic transplants from a family or non-family donor. Bile testing with haemopoietic stem cells taken from bone marrow or peripheral blood by means of apheresis or from cryopreserved umbilical cord blood. To date, more than 1,000 transplants have been performed.

A Blood Transfusion Service is present in the Area as well as a Haematology Service with a 500sq.m. laboratory, has been inserted in the JackNet circuit, national network of laboratories of reference in the diagnosis of chronic myeloproliferative cancer. The

most ambitious activity task is the Implementation of staminal cell transplant even in non-oncological fields, besides the development of new cellular therapies for patients throughout new protocols – as a result of collaborations with international biotech – which represent a unicum on the Italian level.

MEDICAL ONCOLOGY AREA





The COU of Medical Oncology is at the cutting edge in cancer treatment both with standard therapies and with innovative and experimental drugs such as the co-called molecular target, and more recently the “check-point inhibitors” (immunotherapy). Other fields of excellence are those relative to the treatment of cancers of the gastro-intestinal tract, of the breast, lungs and urinary system.

In the laboratories of Pathological Anatomy is where the histological and immunological characterizations are carried out for a total of more than 40,000 determinations a year. Furthermore, an important activity is carried out in molecular diagnostics of the tissues as well as on blood, that principally cancers of the colon-rectum, of the lungs, breast, melanoma and haematological tumours.

All the laboratories of the Area are fitted with the most modern instruments (including DNA sequencers of the latest generation) that enable the analysis of chromosomes and nucleic acids (DNA and RNA) from blood and other tissues. The oncological radiotherapy area includes the Gemelli’s ART (Advanced Radiation Therapy), which provides very advanced clinical and technological outpatient treatment. Together with the Gemelli’s ART there is also the interventional Radiotherapy (Brachithrapy) where abdominal, gynecology, head, neck and developmental cancer is treated with modern imaging.

The COU Medical and Istopathological Oncology has been certified three years ago as a Excellence Center for the treatment of neuroendo-crine Cancer, by the European Nueroendocrine Tumor Society (ENETS).

DEPARTMENT’S ACTIVITIES

Beds     **91**

4,761 
TOTAL DISCHARGED

of which

 **1,816**
DAY HOSPITAL

 **1,986,416**
OUTPATIENT SERVICES

40,045 
CHEMOTHERAPY TREATMENTS

% 24 total discharged outside the Region

BONE MARROW TRANSPLANTS 2016

90 TRANSPLANTS
(of which 43 allogeneic)



IMAGING, LABORATORY AND INFECTIOUS DISEASES SCIENCES DEPARTMENT

The Department represents one of the sectors with the most comprehensive degree of intervention, since it guarantees diagnostic and testing services to all the Areas. The time factor, ensured by the effectiveness of the execution process, represents a fundamental element in this Area to guarantee every patient a diagnosis and a therapy that is as timely/ prompt/suitable as possible.

DIAGNOSTIC IMAGING AREA

Radio-diagnostics and, in general, Diagnostic

Imaging (DI) play a vital role in diagnoses, in the choice of treatment, in the evaluation of outcome and follow-up, using both "heavy" diagnostics (MRI – and CT Scan) and traditional, less demanding diagnostics like ultrasound. Moreover, in many cases, interventional radiology procedures actually replace or integrate traditional surgical techniques, with substantial reduction of invasiveness and complication rates. Within the Dpl, Nuclear Medicine today plays an important role in both diagnostics (scintigraphy, SPECT and PET) as well as in oncological treatment,

thanks to the use of different radio drugs. The COU of the Nuclear Medicine Department is a national leader in the field of diagnostics and of radio metabolic therapy of the thyroid neoplasms (in synergy with Radiotherapy). Among the methods used in the center of excellence are the diagnosis of GEP-NET tumours with Gallio-peptides and cardiologic diagnostic activities (myocardial SPECT) and cerebral (SPECT/CT and PET/CT).

LABORATORY DIAGNOSTICS AND INFECTIOUS DISEASES AREA

The Clinical Biochemistry and Molecular Biology Laboratory performs around 5 million tests a year, in a range of about one thousand different types of tests. The most common tests required (about 100 types) are carried out in high automation in the Core Lab and reported on the same day. The Microbiology and Virology Test 2 Service deals with the diagnosis of infectious diseases. The laboratories are equipped with the most advanced equipment in the field of microbiology.

The main research areas concern the characterisation of the human microbiota and its role in different pathological conditions, the study of microbe resistance to drugs, the development of new antimicrobial drugs. The Area is provided with an Infectious Diseases COU for the diagnosis and treatment of infectious, transmissible community diseases, immune system deficiency and nosocomial diseases and tuberculosis: the Unit's outpatients and day hospital follow a significant number of patients with infectious pathologies, especially HIV and hepatitis.

Finally, the excellence in research carried out by the Department is represented by the first European clinical trial (second at world level) for molecular diagnosis of sepsis, a condition that is among the first causes of death in the hospital.

DEPARTMENT'S ACTIVITIES



OUTPATIENT SERVICES

6,508,002



4,768,024

INTERNAL PATIENTS

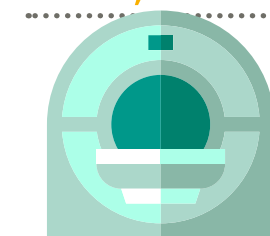
1,739,978

EXTERNAL PATIENTS



48,251

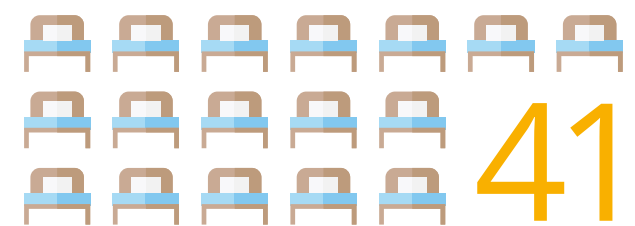
CAT SCANS PERFORMED



15,909

MRIS PERFORMED

Infectious diseases beds



1,253

TOTAL DISCHARGED



of which



439 DAY HOSPITAL



INTERNAL MEDICINE, ANAESTHESIOLOGY, INTENSIVE CARE AND EMERGENCY SCIENCES DEPARTMENT

The Department is equipped to offer a prompt and specialist response to a spectrum of widely spread pathologies, in a territory of reference of 1.5 million inhabitants.

In 2016, the Internal Medicine and Urgent Care Area treated more than 4,200 patients, over 85% of which from the Emergency Area (A&E), including those that need multi-parametric monitoring or sub-intensive treatment.

Within the Medical-Surgical Emergency and Trauma Area, urgent surgery assists all patients

with acute conditions of surgical, traumatic and non-traumatic nature coming straight from the A&E or other OUs of the Policlinico. The Anaesthesia and Pain Control Therapy Area carries out perioperative activities in all sectors of surgery, from the oncological field to bariatric, endocrinometabolic, paediatric surgery and liver and kidney transplants.

An important activity is that of the Post Operative Intensive Care Unit (TIPO). Among the distinctive activities are post-operative management of

liver transplant patients and treatment and monitoring of endocranial hypertension in patients with post-neurological complications. Another field of excellence is represented by the activities of the SOUA of the Anaesthesia and Day Surgery of the Obstetrics Department that provides anaesthetic and epidural pain control services for over 4,000 births a year, and is specialised in the treatment of patients with acute and chronic pain.

The COU of the Resuscitation, Intensive Care and Clinical Toxicology Department represents a territorial point of reference.

The clinical excellence of the Area is represented by the treatment of severe ARDS with advanced protocols and extracorporeal circulation support (133 patients treated in 2016 for septic shock and 96 for sepsis).

















In parallel with the care activities, research protocols have been adopted within the Unit designed for the treatment of acute pain, head injuries, problems of analgesic sedation and the use of neurotrophic factors in cerebral hypoxic-h ischemic pathologies.

Equipped for urgent cases is also the Paediatric Intensive Care Unit (TIP), dedicated to the treatment of patients up to the age of seventeen. The TIP is able to receive patients in urgent need of care also from neighbouring regions thanks to the presence of a heliport operating 24/7.

The Poison Center responds to more than 6,000 calls every year. In particular, the Clinical Toxicology service is an active part of Rome's provincial civil defence plan, the NBCR defence plan (Nuclear, Biological, Clinical-Radiological) of the Regione Lazio and of the supply of antidotes in response to terrorist attacks.

Finally, in 2016, the Hospital is in second place among the hospital of the Lazio region for organ procurement and donations (43 kidney, 22 liver, 99 cornea donations).

DEPARTMENT'S ACTIVITIES

Beds                 **193**

of which

17 in Anaesthesia, Perioperative medicine and Pain management therapy 

Emergency medicine, Internal medicine and Urgent surgery **144**

RESUSCITATION  **20** | **Paediatric intensive care**  **8**

5,961  **TOTAL DISCHARGED**

 **1,471** **SURGICAL PROCEDURES**



THE EMERGENCY AREA (A&E)

With more than 80,000 Emergency Area accesses a year, more than 400 cardiac infarctions, approximately 400 serious traumas, 160 of which in patients admitted to adult or children's intensive care therapy unit, and with an overall mortality rate of less than 8%, the A&E of the Policlinico Universitario A. Gemelli is a Hospital within the Hospital. A point of contact, the first and most immediate, between the world of care and the population. Access to the A&E, both on wheels and via the heliport operating 24/7 strengthen this strategic

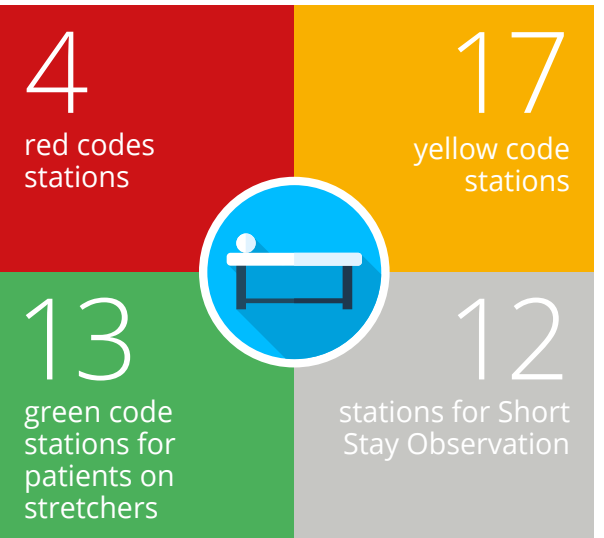
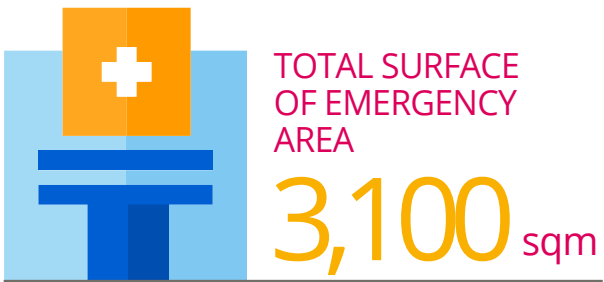
function of the Hospital's emergency response. The changes made to the A&E respond to the new organizational model. New paths dedicated to the more serious cases have been implemented (red codes and yellow codes), a paediatric one and one for serious infectious diseases. Furthermore, an area has been dedicated to maxi emergencies, with which enables the rapid transformation of the spaces and activities in case of extraordinary needs. In 2016, in collaboration with the Department for Cardiovascular and Thoracic Science, a

protocol was activated for the "Purple Code", which entails ECMO (ExtraCorporeal Membrane Oxygenation) and ventricular assistance of patients with cardiac arrest and refractory cardiogenic shock, treating for the first time 7 patients with this pathology in Central-Southern Italy. From the perspective of healthcare organisation, the A&E is distributed over an ample treatment rooms for the different access codes. For some categories of patients (eg. Patients with acute onset neurological pathologies, chest pains, etc.), as well as the traditional triage, the A&E also provides the global triage with execution and immediate delivery of the tests required. The Hospital acts as a second level A&E for 7 First Level A&Es and 6 Emergency Rooms.

PEDIATRIC A&E AND OBSTETRICS A&E

The Policlinico Universitario A. Gemelli is one of the few hospital centers equipped with an Obstetrics A&E and Paediatric Emergencies Department that adhere to the Women and Child Health Sciences Department. The Obstetrics A&E is dedicated to women in pregnancy and enables a brief permanence to best solve numerous cases. Also, in order to respond to urgent care of paediatric patients, in January 2016 the Paediatric A&E and Urgencies was inaugurated, assisting in a year's activity about 13,000 children, of which around 2,000 with complex acute pathologies.

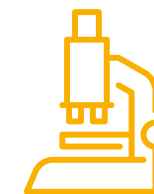
ACTIVITIES OF THE A&E



CHAPTER

3

THE NATURE
OF THE
UNIVERSITY HOSPITAL
DRIVES US
TO CONTINUALLY
LOOK
TO TOMORROW



321

New university
research projects
contracted



10,600,000 €

The value
of university
research projects



420

Clinical trials evaluated
by the Ethics
Committee (including
173 for profit)



12,000,000 €

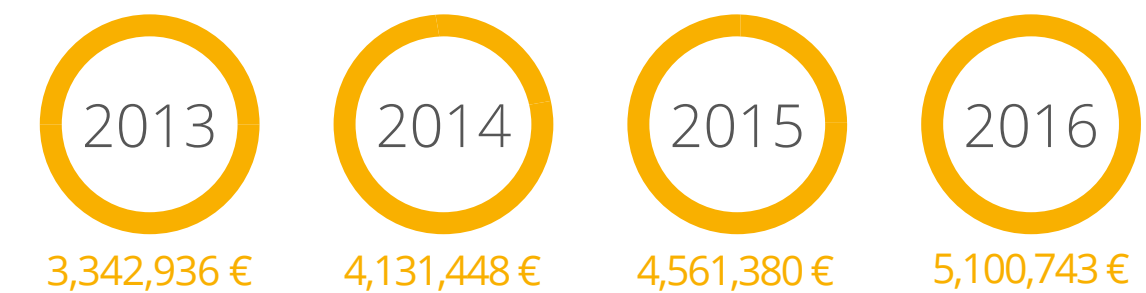
The managed budget
for electromedical
and surgical
technologies



OVER 200

Public events
and initiatives
organised
at the Hospital

VALUE OF NATIONAL RESEARCH



RESEARCH FUNDED BY THE EUROPEAN COMMISSION



NATIONAL AND INTERNATIONAL RESEARCH

The research and innovation carried out within the Fondazione Policlinico Universitario Agostino Gemelli, in conjunction with the Università Cattolica del Sacro Cuore and the Altems (School of Economics and Management of Health Systems), is essential to the continuing development and advancement of the quality of the health services. The primary objective is not only to understand the development and evolution of illnesses, but also to identify the best instruments of care, technologies and new generation methods for diagnosing and treating patients, in order to be constantly at the forefront in the application of innovative therapies to be

included in the care provision platform. The Research Department at the Rome site of the Università Cattolica del Sacro Cuore, along with the corresponding facility at the Foundation's Clinical Government Division, aims to promote, augment and support institutional research activities, facilitate the transfer of effective innovations into clinical practice, and enhance the results of the research applied. These units provide incentive and support for the participation in thematic networks and meetings with the organisations involved in the sector (SME, overseas universities, research bodies), contributing to the growth and enhancement of the welfare state and research activities.

The fields in which the Foundation's scientific production and research constitute a significant international benchmark are oncology, neuroscience, gender medicine, cardiology, gastroenterology, and health system economics and management. For the year 2016, national funding received by the University in collaboration with the Foundation secured financing for a total of 105 projects, of which 45 were contracts (€ 2,976,740) and 60 were liberal donations (€1,015,704.72). Added to these was the funding provided by Ministero dell'Istruzione, dell'Università e della Ricerca, which is handled by Italian Universities and distributed to their own researchers. The total

number of the latter was 136, making a sum of €1,108,297.71. Scientific consultancies were then developed, making a sum of approximately 2.5 million euros.

The international dimension of the University and the Foundation research is a qualifying reality: many of the clinics working in the facilities are members and coordinators of relevant international scientific societies who are actively collaborating in international research groups. In order to seize the opportunities provided by the European research dimension, an administrative reference has been in place in Brussels since December 2013, in order to encourage and coordinate the participation of doctors and researchers from the University and the Foundation on European strategic initiatives, and to support the development of international networks and collaborations. On an international scale, 8 projects were funded during 2016, amounting to a total of € 2,926.389.

CLINICAL TRIAL CENTER

Established in January 2013, the Clinical Trial Center (CTC) of the Fondazione Policlinico Universitario Agostino Gemelli optimises the management and running of the clinical research promoted by companies (profit) and the spontaneous (non-profit) conducted at the Gemelli (serving as a Site Management Organisation, SMO), and provides specific information on the running of clinical trials according to Good Clinical Practice (GCP) to medical and non-medical staff, not only within the Foundation, but also public institutions and associated experimental sites, through TransCelerate certified foundation courses (registered 2016: 295 Foundation researchers). The CTC also functions as an academic Contract Research Organisation (CRO), responsible for attracting clinical research funding from pharmaceutical and biotechnological companies or public establishments, to promote independent clinical research carried out by the Foundation's

The Ethics Committee

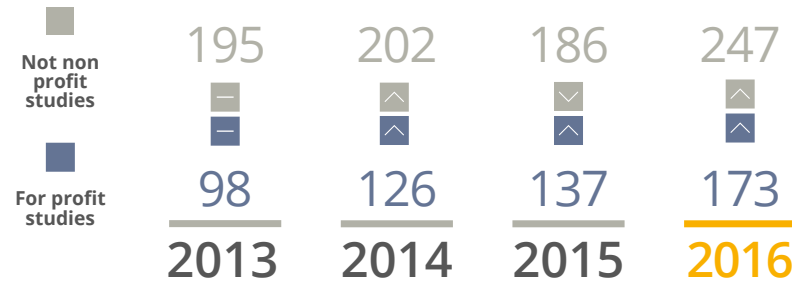
All clinical studies must be conducted in compliance with the Best Clinical Practice Guide internationally agreed in 1995, and recognised by Italian Ministerial Order of 15 July 1997.

At the Fondazione Policlinico Universitario Agostino Gemelli, the Ethics Committee is the body that guarantees the respect of the safety and wellbeing of individuals who take part in trial activities. The Committee is composed of professionals in the clinical, legal and ethical fields as well as patient representatives.

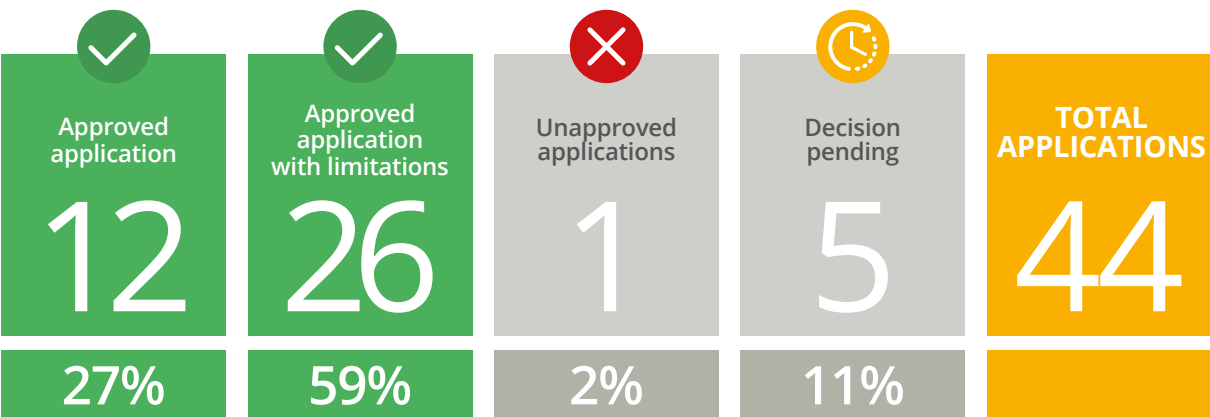
The Ethics Committee is a multidisciplinary consultancy body whose members are called upon to evaluate the ethical conditions of trial protocols and to ensure that the safety, integrity and rights of participating patients are protected.

No clinical trial may begin without prior approval from the Ethics Committee in charge of the organisation.

CLINICAL STUDIES EVALUATED BY THE ETHICS COMMITTEE



APPLICATIONS FOR INTRODUCTION OF NEW MEDICAL DEVICES EVALUATED BY HTA



experimenters or associated organisations. The CRO also provides operational support and regulatory compliance on experimental sites. The CTC interacts with all the clinical departments where trials are conducted, together with the branch of the hospital pharmacy dealing with experimental drugs. The CTC generally focuses on early stage studies (1b-2). Although it is open to all therapeutic areas, there is an emphasis on oncology and rare diseases, a field favoured in recent years by companies specifically dedicated to the research and development of new treatments.

PATIENT-ORIENTED INNOVATION

The capacity for “constant patient-oriented innovation”, which has characterised the Foundation’s work over the course of 2016, is reflected in the most internationally

advanced technology, such as the new instruments available to Gemelli ART, or the training and development methods of the IPSE Center. Innovation in research and treatment methodologies also develops through its partnership with for profit and non-profit organisations. In process management, innovation combines with the search for a concrete economic sustainability, which is the aim of the Health Technology Assessment (HTA).

HEALTH TECHNOLOGY ASSESMENT

The Health Technology Assessment (HTA) has the task of finding the most efficient balance between adopting technological innovations, drugs and procedures capable of ensuring each patient receives the best treatment, in respect of the economic constraints imposed by the Italian National Health service (Servizio Sanitario Nazionale).

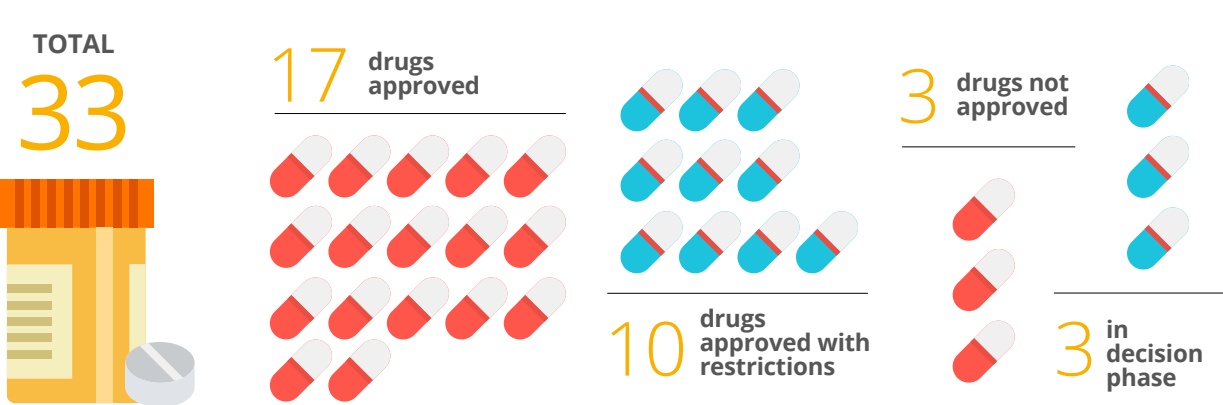
The Unit also has the role of Governing Body with regard to Electromedical Technology and Surgical Instruments. In 2016, the HTA managed a total budget of around 12 Euro million, aimed at the technological completion of large projects of the Hospital, and at the critical resolution of individual Units (replacing obsolete technology, developing the considerable technological equipment of the Hospital, revising and integrating surgical equipment).

New pharmaceutical drugs.

The HTA also evaluates drug introduction requests in the Hospital Trials Handbook (PTO) overseen by the Commission for Drug Therapy and Medical Devices. 33 drugs were evaluated in 2016.

Medical Devices. The HTA has the task of managing Medical Devices (MD) used in the Foundation. In 2016, a procedure for managing MDs

DRUGS INTRODUCTION REQUESTS EVALUATED BY THE COFT-DM



not present on the list was outlined. It sought to find a balance between the need to be quickly supplied with devices for the treatment of clinical situations and the need to verify the possibility of introducing the MD to the list, in light of documented evaluations.

GEMELLI ART

The Radiation Oncology Department features Gemelli ART (Advanced Radiation Therapy), resulting in the new Oncological Radiotherapy Center, a highly specialized center offering inpatients and outpatients cutting-edge clinical and technological treatment. The method designed and developed by Gemelli ART provides an approach to the patient identified in the art (“ART”), the most immediate and empathetic way to “talk” to the patient’s heart. In fact, care spaces have been painted with reproductions of some views of Rome so that

the patient is immersed in a beautiful environment that predisposes itself to an overall improvement in well-being. In addition, the organisational layout provides the spaces dedicated to children’s therapeutic programs designed to enable children to project themselves into a fairytale world, for example, by painting bunkers like an aquarium. This approach leads to an overall improvement of the patient’s physical and psychological well-being and helps to ensure a high standard of service.

The high level of innovation and number of technological instruments active at Gemelli ART allow for a very high standard of service, ranging from reduced waiting times to the possibility to customize treatment times, according to the patient’s needs. The center ensures extreme precision, personalisation of care, organ preservation and function,

ensuring more curative opportunities. The center has recently implemented a new machine which is the ultimate frontier of technological advancement of radiation therapy: MRidian (ViewRay @) is one of only 6 instruments installed worldwide. However, the center already had other linear accelerators including Edge (Varian @), which allows for the patient’s movements to be tracked, and three Truebeams (Varian @) which radiate ultra shaped manner in a short period of time.

At Gemelli ART, the patient’s clinical and therapeutic process is managed through the Tumor Board, which represents a moment of multidisciplinary management of cancer patients’ care, enabling the optimisation of therapeutic decisions and improved communication with the patient and between various health workers.



MediCinema

MediCinema was the first cinema to be opened in an Italian hospital in collaboration with the MediCinema Italy Onlus. Its 130 spectator capacity can accommodate patients in beds and wheelchairs. The important research project aims to measure the effects of therapy through cinema, which shows between a 20 and 30% improvement in pain perception and a significant reduction in stress levels.



NeMO Center

Started in collaboration with the Fondazione Serena Onlus, the Centro Clinico NeMO is an avant-garde facility in the diagnosis of neuromuscular diseases in children and adults, and in managing problems connected to the evolution of diseases. The Center has equipment for monitoring respiratory/cardiac functions as well as every tool necessary for the individual's mobilisation.



IPSE Center

The IPSE Center (Interactive Patient Simulation Experience) is a new center dedicated to medical, surgical and diagnostic simulation. It features purpose-designed premises to recreate situations that staff members come across every day in their work. The CELL (Center for Experiential Learning) training methods are based on advanced macro-simulation skill training and creating integrated processes. The IPSE houses an operating theatre, delivery room, emergency room and multipurpose areas. Ipse Center is supported by Fondazione Cariplo.

INFORM, COMMUNICATE, INVOLVE

The Foundation is at the forefront of promoting a healthy lifestyle, based on the concept that prevention is better than a cure, both through health information campaigns and collection initiatives for social projects and research.

With thousands of employees and tens of thousands of patients and relatives who visit its facilities on a daily basis, and with constant contact with its various stakeholders, the Fondazione Policlinico Universitario Agostino Gemelli is an entity with a

continuing commitment to information, communication and active involvement.

Because of this, the Hospital has always been at the forefront with information, prevention and health education campaigns aimed at promoting healthy lifestyles guided by the concept that prevention is better than cure (*below*).

In addition, the Hospital is an organisation open to a wide range of social and cultural incentives, which result in events

and engagement activities aimed at staff, the internal community (patients and their relatives), and the local community: over 200 events and public engagement initiatives were organised in 2016.

Lastly, the wide communication and media relations activity designed to promote the clinical and scientific activities of the Hospital is reflected in more than 2,400 articles published in newspapers and periodicals, over 2,000 local and national TV appearances, and 215 press releases.



BLOOD DONATION CAMPAIGN

A campaign to raise awareness for blood donation has witnessed the involvement of the Hospital's personnel and donors. Objective: increase donations, and voluntary, anonymous and periodic action.



SMOKING CAMPAIGN

The "Smoke-Free Hospital" campaign implemented a Legislative Decree which extends the smoking ban to outbuildings and bans the sale of cigarettes in coffee bars inside the Hospital.



VACCINATION CAMPAIGN

Promotion of an on-site flu vaccination campaign carried out directly in the operating units where health workers render their services.

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The Mission Statement contains information relating to ongoing and future projects and aims. Several factors could nevertheless result in the future activities and results being somewhat different to the aims described here. In addition, the current Mission Statement is not intended in any way to solicit any form of economic obligation on the part of the stakeholders, for which please refer to the financial information available from the Foundation.

