All’interno del policlinico si fondono centri specializzati per la cura dei tumori, delle malattie cardiovascolari, neurologiche, ortopediche, autoimmuni e infiammatorie, oltre a un Centro Oculistico e a un Fertility Center. Humanitas è inoltre dotato di un Pronto Soccorso EAS ad elevata specializzazione. Primo policlinico italiano certificato per la qualità da Joint Commission International, l’ospedale è accreditato con il Servizio Sanitario Nazionale.

Humanitas promuove la salute, la prevenzione e la diagnosi precoce attraverso attività ambulatoriali e servizi avanzati e innovativi. Riconosciuto dal Ministero come Istituto di Ricovero e Cura a Carattere Scientifico (IRCCS), Humanitas è punto di riferimento mondiale per la ricerca sulle malattie legate al sistema immunitario, dai tumori all’artrite reumatoide.

L’Istituto Clinico Humanitas è l’ospedale capofila di un gruppo presente a Milano, Bergamo, Castellanza, Torino e Catania.

Humanitas è un ospedale ad alta specializzazione, centro di Ricerca e sede di insegnamento di Humanitas University, Ateneo internazionale dedicato alle Scienze mediche.

Humanitas is a highly-specialised hospital, research, and teaching center, which hosts Humanitas University, an academic institute dedicated to medical sciences.

Built around centers for the prevention and treatment of cancer, cardiovascular, neurological, autoimmune, inflammatory, and orthopedic diseases – together with an Ophthalmic Center and a Fertility Center – Humanitas also operates a highly specialised Emergency Department.

The first Italian hospital quality-certified by Joint Commission International, Humanitas is accredited by Italy’s National Health Service. Humanitas promotes health, prevention, and early diagnosis, by means of innovative and advanced outpatient healthcare facilities. Appointed as an IRCCS by the Ministry of Health (an accreditation in the Italian system that acknowledges institutions focused on excellence in clinical care and research), Humanitas is a high profile, internationally well known center of excellence for immune system-related diseases, from cancer to rheumatoid arthritis.

Humanitas Research Hospital is the flagship of a hospital group also present in Milan, Bergamo, Turin, Catania and Castellanza (Varese).
I nostri professionisti

2.690 in totale, di cui:
715 medici
231 ricercatori
1.274 infermieri, tecnici, biologi e altri professionisti
470 personale di staff e servizi al paziente

Attività clinica (ogni anno)

Più di 40.000 pazienti ricoverati, provenienti da tutta Italia e dall’estero
oltre 390.000 visite
più di 50.000 accessi in Pronto Soccorso
3,3 milioni di analisi cliniche
oltre 260.000 esami di radiologia e medicina nucleare
più di 38.000 trattamenti radioterapici

Asset

747 posti letto
42 sale operatorie
oltre 200 ambulatori
Pronto Soccorso EAS**

Our employees

2,690 total, with:
715 physicians
231 researchers
1,274 nurses, technicians, biologists and others
470 client service and staff

Clinical activity (yearly)

More than 40,000 admissions from Italy and abroad
more than 390,000 consultations
more than 50,000 ER patients
3.3 million lab tests
more than 260,000 radiology and nuclear medicine examinations
more than 38,000 radiotherapy treatments

Assets

747 beds
42 operating theatres
more than 200 outpatient clinics
EAS ER**

*Data/Data 2017 **Emergenza di Alta Specialità/ High Specialty Emergency
L’attività scientifica

4.061 = Impact factor nel 2017
560 professionisti impegnati in ricerca, di cui:
- quasi 300 ricercatori (responsabili di laboratorio, ricercatori junior, assistenti, studenti di dottorato e post-dottorato, tecnici)
- oltre 200 medici
25 laboratori
20,000 m² dedicati a ricerca e didattica

Publications
Number of Humanitas publications
Years 2006-2017

Humanitas in cifre
Humanitas in numbers

Le nostre tecnologie d’avanguardia

6 risonanze magnetiche, fra cui 3 Tesla e open con ambient light
7 TAC, di cui
- 2 128 slices e 2 PET-TC con ciclotrone
Robot Da Vinci
Senhance Surgical Robotic System
EOS
Ecografi 3D
Strumenti per diagnosi genetica e test molecolari
Stereotaxis per il trattamento delle aritmie cardiache
Mammografia digitale con tomosintesi
Laser ad eccimeri e laser a femtosecondi
5 acceleratori lineari per la radioterapia, di cui
- 2 Truebeam, 1 EDGE
1 Gamma Knife

Our cutting-edge technology

6 magnetic resonance facilities, among them 3 Tesla and open magnetic resonance with ambient light
7 CT, including
- 2 128 slices and 2 TC-PET with cyclotron
Da Vinci Robot
EOS
3D Ultrasound Scan
Genetic diagnosis instruments and molecular tests
Stereotaxis for cardiac arrhythmia treatment
Digital mammography with tomosynthesis
Excimer and femtosecond laser
5 linear accelerators for radiotherapy, of which
- 2 Truebeams, 1 EDGE
1 Gamma Knife

Scientific activities

4.061 = Impact factor in 2017
560 professionals involved into research, among them:
- almost 300 research scientists (principal investigators, junior principal investigators/staff scientists, postdocs and PhD students, technicians)
- more than 200 clinicians
25 labs
20,000 m² dedicated to research and education

Impact factor
Total Impact Factor of Humanitas publications
Years 2006-2017

752 724 896 1,587 1,727 1,878 2,253 2,627 3,076 3,218 3,506 4,061

Numerical and Graphical Data

776 197 299 349 363 416 421 563 600 636 776

Impact factor: Years 2006-2017

4.061
<table>
<thead>
<tr>
<th>Anno</th>
<th>Evento</th>
</tr>
</thead>
<tbody>
<tr>
<td>1989</td>
<td>Design and construction of Humanitas are assigned to Techint based on architect James Gowan’s project.</td>
</tr>
<tr>
<td>1996</td>
<td>Hospital construction ends and on March 4, 1996 Humanitas opens its doors and welcomes its first patient.</td>
</tr>
<tr>
<td>1997</td>
<td>Humanitas is subsidised by Italy’s National Health Service for in-patient services.</td>
</tr>
<tr>
<td>1999</td>
<td>Humanitas Foundation is established for psychological and practical support to patients and caregivers.</td>
</tr>
<tr>
<td>2000</td>
<td>Humanitas becomes a teaching center of the University of Milan for the Nursing Degree, followed by Medicine and Biotechnology.</td>
</tr>
<tr>
<td>2002</td>
<td>Humanitas becomes a case-study of Harvard University’s Master in Business Administration and also receives excellence accreditation by Joint Commission International, the first Italian hospital to be acknowledged by one of the most important bodies for hospital quality.</td>
</tr>
</tbody>
</table>
La nostra storia
Our history

Inaugurazione del Pronto Soccorso EAS e della Radioterapia.
Inaugurazione del Centro di Ricerca e Didattica.
Nasce l’International Medical School in collaborazione con l’Università degli Studi di Milano.
Ampliamento delle attività di diagnostica con nuove facilities.
Nasce Humanitas University, Ateneo dedicato alle Scienze Mediche.
Iniziano i lavori per la costruzione del nuovo campus universitario.
Apre il nuovo campus di Humanitas University.

Humanitas è riconosciuto dal Ministero della Salute come Istituto di Ricovero e Cura a Carattere Scientifico. Nasce la Fondazione Humanitas per la Ricerca.

2003
Humanitas opens its ER and Radiotherapy Unit.

2005
The Ministry of Health accredits Humanitas as IRCCS. Humanitas Foundation for Research is launched.

2007
Inauguration of the Research and Teaching Center.

2010
Humanitas launches its International Medical School in collaboration with the University of Milan.

2013
Diagnostic services enlargement with new facilities.

2014
Humanitas University, a new international institution dedicated to medical sciences, is established.

2015
Groundbreaking for the new Humanitas University campus.

2017
The new Humanitas University campus opens.
Humanitas: innovazione, ricerca e insegnamento
Clinical innovation, scientific research and education

CURA E RICERCA
Humanitas è un Istituto di Ricovero e Cura a Carattere Scientifico (IRCCS) accreditato dal Sistema Sanitario Italiano. Le attività diagnostiche e terapeutiche offerte incontrano i bisogni dei pazienti a livello locale, nazionale e internazionale.

RESEARCH HOSPITAL
Humanitas in Milan is an IRCCS (an accreditation in the Italian system that acknowledges institutions focussed on excellence in clinical care and research). Humanitas is also accredited by the Italian National Health Service. Humanitas’ diagnostic and therapeutic activities meet patients’ needs at a local, national and international level.

I pazienti al centro
La nostra mission è:
• migliorare la vita dei nostri pazienti, grazie a cure sempre più efficaci e a un’organizzazione innovativa e sostenibile
• investire in una ricerca che abbia un impatto concreto sul progresso della Medicina
• formare una nuova generazione di professionisti attraverso un modello che unisce Clinica, Ricerca e Università.

Patient-centered care
Our mission is to:
• improve our patients’ lives by offering increasingly effective treatments based on an innovative and sustainable organization
• invest in research that ultimately improves clinical management and outcomes
• train a new generation of professionals with a model that unifies the clinic, research facilities, and the University.
Humanitas: innovazione, ricerca e insegnamento
Clinical innovation, scientific research and education

CENTRI SPECIALIZZATI
E PERCORSI DI CURA
L’assistenza medica, sostenuta da un’attività di ricerca continua volta a migliorare e personalizzare le cure. Humanitas ha sviluppato la sua organizzazione clinica istituendo centri di eccellenza specializzati per la cura dei tumori, delle malattie cardiovascolari, neurologiche, autoimmuni e infiammatorie ortopediche – oltre a un Fertility Center e a un Centro Oculistico – nei quali i pazienti sono seguiti da equipe multidisciplinari e da un’organizzazione dedicata.

SPECIALISED CENTERS OF EXCELLENCE
AND CARE PATHWAYS
Healthcare, supported by the best specialist expertise and integrated using a multidisciplinary approach, is sustained by continual research activity aimed at improving and personalising care. Humanitas developed its clinical organization by establishing excellence centers for cancer, cardiovascular, neurological, orthopaedic, ophthalmic, autoimmune, and inflammatory diseases – in addition to a Fertility Center – where patients are assisted by multidisciplinary teams and a dedicated organization.
La nostra tecnologia

Humanitas is considered one of the most technologically advanced hospitals in Europe. Among the most prominent examples:

EOS
EOS is a newly-designed imaging system that permits the study of the spine and lower limbs in standing position (under loaded condition).

RMN
The 3 Tesla Magnetic Resonance provides higher resolution images in few seconds (that can be acquired during respiratory apnoea), with the advantage of minimizing the patient’s permanence time in the machinery.

Truebeam
The linear accelerators TrueBeam and TrueBeam STX adapt to the movement of internal organs due to breathing and deliver the highest possible radiation dose to the targeted cancer tissue with millimeter precision, thus sparing healthy surrounding tissue.

Robot per la chirurgia
Humanitas dispone di sistemi chirurgici robotici all’avanguardia. Il robot Da Vinci rappresenta lo stato dell’arte per la chirurgia, grazie all’alta definizione tridimensionale e a 4 braccia robotizzate. Ad esso si affianca Senhance Surgical Robotic System, introdotto in Humanitas come primo centro al mondo per la chirurgia colorettale. Particolarmente innovativo, restituisce un feedback tattile. Inoltre, la tecnologia denominata eye-tracking permette di guidare la telecamera tracciando il movimento delle pupille del chirurgo.

Edge e Gamma Knife
Extremamente sofisticati ed esclusivamente dedicati alla radiochirurgia del cervello, Gamma Knife ed Edge offrono un’alternativa alla chirurgia cerebrale. Caratterizzati da un’estrema precisione, permettono di irradiare il bersaglio tumorale con la quantità di dose più adatta, senza intaccare le delicate strutture e i tessuti circostanti.

Our technology

Humanitas is considered one of the most technologically advanced hospitals in Europe. Among the most prominent examples:

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Surgery robots
Humanitas has a cutting-edge surgical robotics system, Da Vinci, that represents the state of the art for surgery, thanks to high-definition and three-dimensional imagery, along with four robotic arms. Alongside Da Vinci is Senhance, a surgical robotics system, introduced for colorectal surgery for the first time worldwide. It is particularly innovative and uses tactile feedback. Furthermore, eye-tracking technology allows the camera to be guided by tracing the movements of the surgeon’s pupils.

Edge and Gamma Knife
Gamma Knife and Edge are dedicated and fully integrated systems for brain radiosurgery, often an alternative to the normal surgery. Gamma Knife and Edge are known for exceptional dose conformity and precision, limiting radiation to the surrounding brain tissue and critical structures.
Dal laboratorio ai pazienti, rapidamente

Almost 300 researchers work at the University Research and Teaching Center – which is fully integrated with the hospital – utilizing cutting-edge technology such as the recently acquired two-photon microscope. The group operates in close collaboration with the hospital’s 609 physicians, in order to facilitate translation, i.e. the direct application of the most recent advances in healthcare through a systematic and ongoing process of innovation. Scientists and researchers from 16 countries spanning over four continents carry out innovative research in immunology and are involved in studies on high impact non-communicable diseases, e.g. cancer, myocardial infarction, stroke, and autoimmune diseases.

From labs to patients, with speed

Quasi 300 ricercatori lavorano presso il Centro di Ricerca e Didattica Universitaria, pienamente integrato con l’ospedale, utilizzando tecnologie d’avanguardia come il microscopio a due fotoni.

Il gruppo opera in stretta collaborazione con gli oltre 600 medici dell’ospedale, per facilitare l’applicazione diretta nell’ambito dell’assistenza medica delle scoperte più recenti, attraverso un processo sistematico e continuo di innovazione. Scienziati e ricercatori provenienti da 16 Paesi di 4 continenti effettuano ricerche in campo immunologico e su malattie ad alto impatto, come tumori, infarto, ictus e malattie autoimmuni.

Humanitas and Research

In the last few years, Humanitas’ scientific productivity has been constantly increasing in quality and quantity, achieving very high levels, as indicated by bibliometric indexes: over 4,000 Impact Factor points in 2017 (ranking among the first hospitals in scientific research), with particular focus on the immune system. The latter is crucial for contemporary research in medicine because of its strong influence on different clinical areas, from cancer to cardiovascular diseases, to inflammatory and autoimmune diseases.

Humanitas: innovation, research and education

Clinical innovation, scientific research and education

HUMANITAS E LA RICERCA

Negli ultimi anni, la qualità e la quantità della produzione scientifica di Humanitas hanno continuato a crescere, raggiungendo livelli molto elevati, come dimostrato dagli indici bibliometrici: oltre 4.000 punti di Impact Factor nel 2017 (ai primi posti tra gli IRCCS per produzione scientifica), con particolare attenzione al sistema immunitario. Quest’ultimo è cruciale per la ricerca medica contemporanea a causa del forte impatto in diverse aree cliniche, dai tumori alle malattie cardiovascolari, infiammatorie o autoimmuni.

RESEARCH AT HUMANITAS

In the last years, Humanitas’ scientific productivity has been constantly increasing in quality and quantity, achieving very high levels, as indicated by bibliometric indexes: over 4,000 Impact Factor points in 2017 (ranking among the first hospitals in scientific research), with particular focus on the immune system. The latter is crucial for contemporary research in medicine because of its strong influence on different clinical areas, from cancer to cardiovascular diseases, to inflammatory and autoimmune diseases.
Progress and growth during the last 3 years has been outstanding. […] The recruitment of translational researchers and physician scientists has been particularly successful and should be further expanded. […] The overall increase in scientific productivity is particularly impressive. […] Progress in education has been outstanding. […] The establishment of the International Medical School and the M.D., Ph.D. program is viewed as a major strength of the HRI, which positions the Institute as a leader in the training of the next generation of physician scientists in Europe. […] The ranking of Humanitas is also very impressive […]: is now top 10% in Italy and Western Europe worldwide [SCImago ranking].
Humanitas University is dedicated to the health sciences and is affiliated with the internationally well-known teaching hospital and research institute IRCCS Istituto Clinico Humanitas. The faculty is made up of doctors and researchers known around the world, with visiting faculty that has included Nobel Prize winners for Medicine (Rolf Zinkernagel, Jules Hoffmann, Erwin Neher). The University aims to prepare its students for any career path, be it clinical practice or research, be it in Italy or abroad.

Humanitas University offers three degree courses:

- International Degree in Medicine and Surgery, in English (six-year single cycle)
- Degree in Nursing, in Italian (three years)
- Degree in Physiotherapy, in Italian (three years)

In terms of post-graduate training, the University has received accreditation from 13 residency programmes in the important specialties following a medical degree, and has activated advanced courses in Epidemiology for Clinical Research and in Cardiovascular MR Imaging, several Master’s Degree both in Medicine and Nursing, as well as a PhD in Molecular and Experimental Medicine.
Gli advisory board internazionali
Humanitas firmly believes in the evaluation process. For this reason, an Advisory Board for pre-clinical research headed by the Nobel Prize awardee Rolf Zinkernagel has been created. Another International Advisory Board assesses and evaluates Humanitas Cancer Center research and clinical activity on a continuous basis.

Harvard University
Considered by Harvard University one of the four most innovative hospitals worldwide, Humanitas is a case study due to its organizational model, which combines quality of care with economic sustainability, development and social responsibility.

Joint Commission
Humanitas was the first polyclinic in Italy, and among the very few in Europe, to have been certified by the Joint Commission International. This acknowledgment of excellence has been confirmed and renewed several times since 2002 and has required the compliance with over 1,300 standards.

Sicurezza dei lavoratori
Humanitas is certified OHSAS 18001 (Occupational Health and Safety Assessment Specification), an international recognition that highlights the hospital’s attention to the safety and health of its workers.

Pagamenti responsabili
Humanitas has joined the “Codice Italiano Pagamenti Responsabili” (Italian Responsible Payments Code), an initiative of Assolombarda (an industrial association in Lombardy), in order to promote prompt and timely payments to suppliers and aimed at improving the national and international reputation of Italian companies, thus strengthening their competitiveness.
Humanitas in Italia
Humanitas in Italy

Humanitas is on the ground, with 9 hospitals and 8 diagnostic centers, the largest of which is in Arese, near the “Centre”.

1 Milan-Rozzano
Istituto Clinico Humanitas
www.humanitas.it

2 Milan
Humanitas San Pio X
www.sanpiox.net

3 Bergamo
Humanitas Gavazzeni
www.humanitasgavazzeni.it

4 Bergamo
Clinica Castelli
www.clinicacastelli.it

5 Castellanza
Humanitas Mater Domini
www.materdomini.it

6 Turin
Humanitas Gradenigo
www.gradenigo.it

7 Turin
Humanitas Cellini
www.clinicacellini.it

8 Turin
Clinica Fornaca di Sessant
www.clinicafornaca.it

9 Catania
Humanitas Centro Catanese di Oncologia
www.humanitascatania.it

1,980 beds
212,000 m²
2,000 physicians

Every year:
182,000 admissions
more than 1 million outpatients
more than 7 millions of laboratory analysis

1,980 posti letto
212,000 m²
2.000 medici

Ogni anno:
182.000 ricoveri
oltre 1 milione di visite ambulatoriali
oltre 7 milioni di analisi di laboratorio

To reach out to citizens, Humanitas goes outside the walls of its hospitals and, through its Humanitas Medical Care centres, provides diagnostic and preventive services in places that are easy to reach and always accessible, thanks also to the support of smart technologies.