



Factsheet

Erasmus MC  
University Medical Center Rotterdam



Patient Driven



## HEADING FOR '013:

# ERASMUS MC EN ROUTE TO THE WORLD TOP

### INTRODUCTION

The Erasmus Medical Center was created in 2002 from an administrative and organizational merger of the medical faculty of the Erasmus University Rotterdam (EUR) and the Academic Hospital Rotterdam, that previously consisted of a collaboration between Dijkzigt Hospital, Sophia Children's Hospital and the Daniel den Hoed Cancer Center. With the exception of the oncological treatment center, all divisions of the Erasmus MC are housed in the Hoboken district just outside the center of Rotterdam. Erasmus MC-Daniel den Hoed is, at the moment, still located in Rotterdam-Zuid but will relocate to the new location in the center in 2016, after a new University Medical Center has been completed.

The construction of the Erasmus MC will also be completed by then.

Outstanding and dedicated patient care, pioneering and ground-breaking medical scientific research and excellent and highly valued medical training: those are the goals with which the Erasmus MC wants to further expand its international reputation and become, by 2013, one of the twenty best medical institutions in the world. These goals have been set down in the mission statement and in the strategic vision of the future, 'Heading for '013,' for which the most important principles are: joining forces: together, expanding boundaries together and standing together in society.

### ORGANIZATION

The Erasmus MC is the largest of the eight university medical centers in The Netherlands. The organization consists of more than fifty departments. Each of the departments contributes to the three core tasks of the Erasmus MC: patient care, research and education. The success of the organization is determined by an optimum interaction among these equivalent core tasks.

Personnel	2008
Number of personnel in employment, excluding medical specialists	10.262
Number of FTE personnel in employment excluding medical specialists	8.417
Number of medical specialists	653
Number of FTE medical specialists	594

The departments, each with its own administrative organization, are grouped in seventeen clusters in order to tailor and manage the joint provisions and policy issues. Alongside of the clusters, there are seven staff directorships which support the implementation of the core tasks: General and Technical Services, Financial Services, Housing, Information, Research and Education, Patient Care and Personnel. The four-man Board of Directors presides over the organization and implementation of the policy. Departments and management report directly to the Board of Directors.

The advisory and consultative body of the Erasmus MC (Staff Assembly, Employees Council and the National Client Council CRAZ) have advisory powers and powers of consent in divisions.

### PATIENT CARE. 'PATIENT DRIVEN'

Under Heading for '013, a conscious choice has been made to further strengthen the central position of the patient within the Erasmus MC. All activities are ultimately focused on the continued improvement of individual patient care and social healthcare and the maintenance of this care on a high international level.

The campaign 'Patient driven' envisages this Heading for '013 objective and has also been established to create a dialogue with patients and staff so that the care and service provision of the Erasmus MC can be organized as effectively as possible.

The healthcare offered at the Erasmus MC encompasses the entire spectrum of medical science and consists of general specialist care, expert clinical care (specialist care that is only offered in the academic centers and a limited number of general hospitals) and top specialist care (exceptional specialist care that can only be done in the eight university medical centers).

In Heading for '013, basic care (general specialist care) is regarded as an essential component of the patient mix at the Erasmus MC. This is not only for the training and scientific research, but also for the collaboration with other healthcare institutes and professionals and the social responsibility that the Erasmus MC has to provide a contribution to the basic health of the people in the city of Rotterdam. In Heading for '013, it has been determined that, depending upon the medical specialism, basic healthcare must make up approximately twenty percent of the total healthcare package.

Capacity of patient care	2008
Number of available beds	1.221
Number of IC beds for adults	50
Number of IC beds for children	61

Core figures for patient care	2008
Number of admittances	38.555
Average nursing stay in days	7,9
Number of first visits to out-patient clinics	180.603
Number of repeat visits to out-patient clinics	321.351
Number of out-patient treatments	30.754

In the most versatile academic medical center in The Netherlands, special attention in patient care is focused on heart and vascular diseases, hema-tological disorders, clinical genetics, pediatrics and pediatric surgery, microsurgery, human reproduction, endocrinology, oncology, virology, transplant medicine, immunology and gastroenterology. In 2008, the Erasmus MC attained a NIAZ accreditation for the organization of its patient care.

### RESEARCH: THE WORLD TOP IS ON THE HORIZON

On the basis of the international citation index, the Erasmus MC can rightfully be called a frontrunner in the area of medical scientific research among the university medical centers in The Netherlands. Worldwide, it is one of the forty best research institutes. Because of this, it holds great attraction for renowned scientists and young, talented researchers. The Erasmus MC is distinguished in five core areas in both fundamental research and in patient-oriented research.

Promotions	2006	2007
Number of promotions	179	161

The areas of fundamental research are: genetics and cell biology, neurosciences, health sciences, heart and vascular diseases and molecular medicine.

The areas of patient-oriented research are: oncology, heart and vascular diseases, infectious diseases and inflammation processes, endocrinological diseases and gastroenterological diseases.

Publications 1998-2007	All UMC's	Erasmus MC
Number of publications	79.451	16.028 (20%)
Number of citations per article	13,58	15,39
Citation score	1,40	1,59
Number of publications in top 1%-segment	829	224

Overview of financing research projects	2007
NWO	300
Government excluding NWO	25
European Union	117
Collection box funds	116
Businesses (at home and abroad)	357

### Knowledge valorization

The available medical scientific knowledge within the Erasmus MC is of great economic value. For that reason, the Erasmus MC feels that knowledge valorization is of paramount importance. This includes, for example, patent applications, (support with) starting new (knowledge intensive) businesses and the development of new products and services. In 2007, there were 138 patents pending and 24 new patents were granted.

### EDUCATION: BREEDING GROUND FOR 'NEW' PROFESSIONALS

The Erasmus MC offers a broad range of medical, paramedical and nursing training courses and follow-up courses. With this available education, the Erasmus MC contributes greatly to its social responsibility of making knowledge available to society and affiliated healthcare organizations. Education is, at the same time, an important part of the labour market policy of the Erasmus MC to recruit talented and committed young physicians, researchers and medical and paramedical professionals.

The Erasmus MC has, in collaboration with the Erasmus University Rotterdam, two academic bachelor's degree

programmes (medicine and health sciences/policy and management in the healthcare sector) and eight academic master's degree programmes.

The training program 'Erasmusarts' [Erasmus physician] trains medical students for modern professional practice. Distinctive for this curriculum is: the training to systematically solve medical problems with the aid of thematic education. Here, theory and practice are integrated thorough training in scientific problem analysis, a critical professional attitude and the development of talents that fall outside of the study.

The Medical School has a numerus clausus, a predetermined maximum number of first-year students: at the moment it is 410. Motivated and talented young people have an extra chance to be admitted to the Medical School in the Erasmus MC. Via the decentralized selection procedure, they can obtain a place outside of the centrally organized lottery system by proving demonstrable affinity with healthcare, showing administrative and organizational experience, having a wide range of interests or having attained special achievements in, for example, the areas of science, art, literature or sports. In the Erasmus MC, 50 percent of the students are admitted to the medical school through this procedure.

The Master's Degree course in research at the Erasmus MC enjoys a position of great respect, both nationally and internationally. In The Netherlands, the Erasmus MC is the only university medical centre that offers four accredited research degree programs: Clinical Epidemiology, Clinical Research, Molecular Medicine and Neuroscience. The Master's Degree program, Infection and Immunity, is being developed. These two-year programs are intended for Dutch and foreign students with a relevant bachelor's diploma who want to become researchers and contribute to future developments in medical science.

Students in health sciences/policy and management in the healthcare sector (BMG) can choose, for their Master's Degree program, from three Master's Degree courses: Health Economics, Policy & Law, Health Services Research and Care Management.

Figures in education	2007	2006	2005
Number of registered students in Medical School	2.451	2.255	2.281
Number of registered students in Policy and Management in the Healthcare Sector	509	450	465

## FINANCES

The financing of the core tasks of patient care and education are completely separate.

### Patient care

The Erasmus MC submits claims of the accrued costs for the provision of patient care to the healthcare insurance providers. This is done on the basis of DBC's. One DBC is a diagnostic treatment combination: an administrative code that represents the diagnosis and total treatment. Each DBC has its own 'price tag.' Part of these DBC's are freely negotiable between the hospital and the healthcare provider with respect to price, volume and quality. For the other part, the hospital makes agreements with the collective healthcare providers concerning the maximum amount of the claims.

Moreover, the Erasmus MC receives a subsidy for the funding of the expert specialist care and activities that can be clustered under the heading of developmental medicine and innovation. The amount of this subsidy, the so-called academic component, is determined by the Department of Health and Human Services (VWS). For its activities in the area of medical scientific research and education in relation to patient care, the so-called workplace function, the Erasmus MC receives a governmental contribution from the Department of Education, Cultural Affairs and Science (OC&W).

### Research and education

The financing of the core tasks of research and education has four flows of funds.

The first flow of funds consists of the governmental contribution from the Department of Education, Cultural Affairs and Science. This includes the funding of the MD training program, the research Master's Degree program, a portion of the scientific research and the central (supporting) services. The allocation of this government contribution goes via the Erasmus University.

The second flow of funds comes from independent public organizations such as NWO [Dutch Organization for Scientific Research] and is paid directly to the Erasmus MC for the benefit of researchers, research projects and research programs.

The third flow of funds is project-committed financing, originating from the European Union and the collection box funds.

The corporate community and research subsidies from government and foundations supply the fourth flow of funds.

The money that comes in as the first flow of funds is allocated to the departments according to a distribution model.

Incomes, patient care	Amount
Budget patient care:	520 million Euros:
• Claims to healthcare providers	420 million Euros
• Academic component	100 million Euros
Government contribution workplace function	70 million Euros
Income, education and research	Amount
First flow of funds (education and research)	106 million Euros
Second flow of funds (primarily research)	31 million Euros
Third flow of funds (primarily research)	16 million Euros
Fourth flow of funds (primarily research)	25 million Euros

## HOUSING

At the moment, the Erasmus MC is housed at various locations in the city of Rotterdam. The academic hospital, the academic children's hospital and the medical faculty are situated on a large site on the outskirts of the centre of the city, the oncological treatment centre, Erasmus MC-Daniel den Hoed, is located in Rotterdam-Zuid.

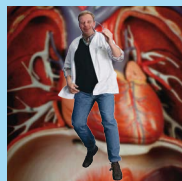
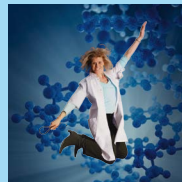
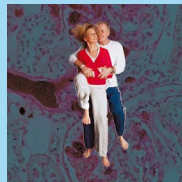
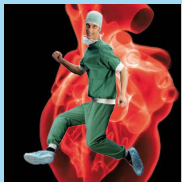
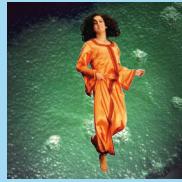
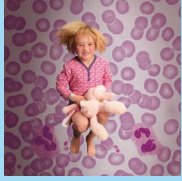
Between 2009 and 2016, there will be large-scale construction and renovation projects at the location in the centre of Rotterdam which, as far as size and building costs are concerned, can be regarded as the largest construction project in The Netherlands. The project provides for a continuous and simultaneous stream of renovation of existing buildings and the construction of new buildings. After the completion of the project in 2017, the Erasmus MC-Daniel den Hoed will also be housed at the central location.

The most important components of the construction project are:

- The construction of a new, ultramodern hospital (starting in 2009, completed in 2016)
- The construction of a new educational centre at the foot of the high-rise faculty building where the medical scientific research is concentrated (starting in 2009, completed in 2011)
- The renovation and expansion of the Thorax Centre in the existing hospital (completed in 2010)
- A roof construction for the Erasmus MC-Sophia which will include an expansion of the number of Intensive Care beds for children, a Mother and Child Centre and, moreover, a space for a primary care birthing centre (completed in fall of 2013)



The following Erasmus MC fact sheets are available:  
General Patient Care, Research, Education, Personnel, Newly Housing of Hospital and New Housing of Educational Center.



**Erasmus MC**  
 University Medical Center Rotterdam  
*Erasmus*