

**Rehabweek 2022**  
**Erasmus MC labtours**  
Friday, 29 July 2022

**Introduction Erasmus MC**

**Erasmus University Medical Centre**

Welcome to the Erasmus University Medical Centre. We dare to step forward in research, education and healthcare and we are committed to a healthy population and excellence in healthcare through research and education.

The Erasmus University Medical Centre is the largest of the eight university medical centres in the Netherlands. The Erasmus University Medical Centre, Erasmus University's Med School and its University Hospitals are integrated into one campus and led by one executive board.



In 1968 our Medical Faculty including the Research & Education centre was opened, the Sophia Children's Hospital opened in 1994 its doors and in 2009 we started building the New Erasmus MC. The new Education Centre opened in 2012 with 40 teaching & lecture rooms for up to 6,000 students and was awarded a number of architectural prizes shortly after. Following years of preparations our new hospital was opened by our King in May 2018. Natural light, space, and clarity are the keywords for our new building in which patients, together with us, will have more control over their stay and treatment.

**Education, Research & Innovation:** Erasmus MC offers BSc, MSc, PhD and Residency programs to train the next generation of medical practitioners and researchers. We are one of the largest European medical schools, with ~2,500 medical students and 220-250 PhD graduations per year. Our overall research aim is to translate bench discoveries to bedside applications and cover all fields from preclinical via clinical to health sciences research. The worldwide impact of our research papers in preclinical, clinical & health sciences is 2,35 which is in the top of the world wide ranking list, just below Harvard (2,37).



For a sneak preview: *Erasmus MC: The Movie* <https://youtu.be/LtjpwmgkJK>

We invite you to register and join one of the Rehabweek 2022 Tours on Friday 29 July 2022.

### ***Tour option #3:***

#### ***VR in healthcare and education & Erasmus MC introduction tour***

**Times:** 09.30 – 12.00 hrs & 13.30 – 16.00 hrs

**Duration:** each tour 1 hour, 15 min coffee break between the tours

**Number of participants:** 20 persons (to be split in 2 groups of 10)

#### ***Virtual reality is here to stay (part 1)***

VR applications are used on a daily basis within the Erasmus MC for improving healthcare and also in our education for students and experienced surgeons and nurse specialists.

Within the Sophia Children's Hospital a virtual reality exposure tool was developed and is being researched on its effectiveness on anxiety and pain reduction in children undergoing elective day care surgery. By preparing children for anaesthesia and surgery with an innovative virtual reality exposure tool, instead of distracting them, we hope to improve clinical and psychological outcomes.



The Thorax Centre of Erasmus MC also uses VR goggles for the preparation of congenital heart defect operations. Here the CT scan is converted into a 3D image. Especially with children's hearts it proves useful, the surgeons see things in VR that they could otherwise not visualize so well. Possibilities of VR within thoracic surgery are endless. A team is working on a simulation for operating the heart-lung machine for perfusionists in training. The use of VR images to prepare for lung-saving surgery for lung cancer has also taken off. A multicentre study into its effectiveness will start soon. VR software was also developed to practice resuscitation after open-heart surgery and is part of the induction period for assistant physicians in thoracic surgery.

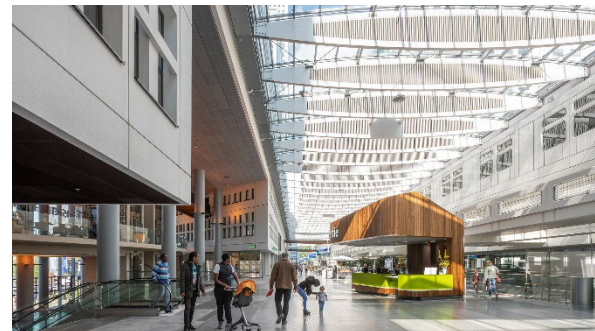
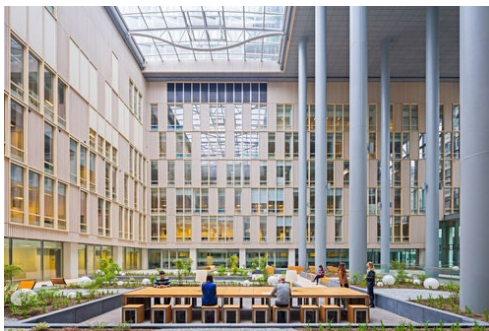
During COVID a number of VR applications were introduced. In a number of hospitals in Rotterdam, including the Erasmus MC, VR was used in aftercare to help ex-covid patients and their families understand what happened during the covid-IC admission. Together with the city of Rotterdam the Erasmus MC developed a VR-app with instructional videos for nurses who start working at a COVID unit from another discipline. This way, nurses can quickly gain experience with essential procedures on corona patients. The app was available free of charge to all nurses in the Netherlands.

This program will introduce you to a number of VR applications used in our University Medical Centre.

### ***Tour of the Erasmus University Medical Centre (part 2)***

During the second part of this program we will take you on a ***tour of the Erasmus University Medical Centre*** including:

- The Education Centre and Education Square with more than 400 work and study places, the Medical Library, computer and catering facilities and a sunny garden for students.
- Explanation on the functional layering within the newest part of the hospital building; Hospital services with a high flow of people have been housed lower in the building, and those where peace and quiet contribute to recovery, such as the nursing wards, have been housed higher.
- Our 'healing environment' concept including the green roof gardens which are accessible to patients, visitors and staff and offer wonderful views of the city!



### ***Morning program:***

- 09.30 u            **Arrival** at the Erasmus MC (exact location TBC)  
 Group to be split in 2 smaller groups of 10 persons each
- 09.45 u            **Start** of the first tour
- 10.45 u            **Coffee break**
- 11.00 u            **Start** of the second tour
- 12.00 u            **End of visit**

### ***Afternoon program:***

- 13.30 u            **Arrival** at the Erasmus MC (exact location TBC)  
 Group to be split in 2 smaller groups of 10 persons each
- 13.45 u            **Start** of the first tour
- 14.45 u            **Coffee break**
- 15.00 u            **Start** of the second tour
- 16.00 u            **End of visit**