

- **Institution's name**

GEMELLI ART
Radiation Oncology Department
Università Cattolica del Sacro Cuore
Policlinico Universitario Agostino Gemelli
Rome

- **Website**

www.gemelli-art.it

- **Institution's picture and logo**



- **Description of your institution**

The "Università Cattolica del Sacro Cuore" (UCSC) is a free University, recognized by National State, with 14 Faculties, 52 three-year Major Tracks, 42 Graduate Level Degrees, 1 Four-years Degree, over 100 Master Tracks, 53 Resident Programs and 5 Postgraduate Schools. Overall more than 42.000 students attend its Courses each year. The UCSC approaches this goal through a superior academic education, joined with the ethic fundaments derived from a religious view of the life.

The Policlinico Universitario Agostino Gemelli is a leading university hospital in Italy with almost 1500 beds including ordinary wards and day hospital. It has been operating, for over 50 years, with the purpose of educating several generations of medical students to a holistic approach in the cure of patients.

- **Description of the RO department**

The GEMELLI-ART is the Radiation Oncology Department, a highly specialized center providing both in and outpatients with the best clinical and latest technological treatment options. The center has three LINACs allowing using intensity-modulated radiation therapy (IMRT), Rapid-Arc and Stereotactic body radiation therapy (SBRT), Intraoperative radiotherapy (IORT), Total Body Irradiation (TBI), Total Skin Irradiation (TSI). Great importance is given to precisely control the entire delivery process that is obtained by using

an IGRT approach with state-of-the-art on board imaging, such as EPID (Electronic Portal Imaging), Cone Beam CT, the possibility of Respiratory Gating and by online portal dosimetry. In addition, GEMELLI-ART can count on a Brachytherapy unit, a specific Day-Hospital service and two dedicated wards, equipped also for metabolic therapies, for palliative treatments, and to directly manage chemotherapy and supportive care.

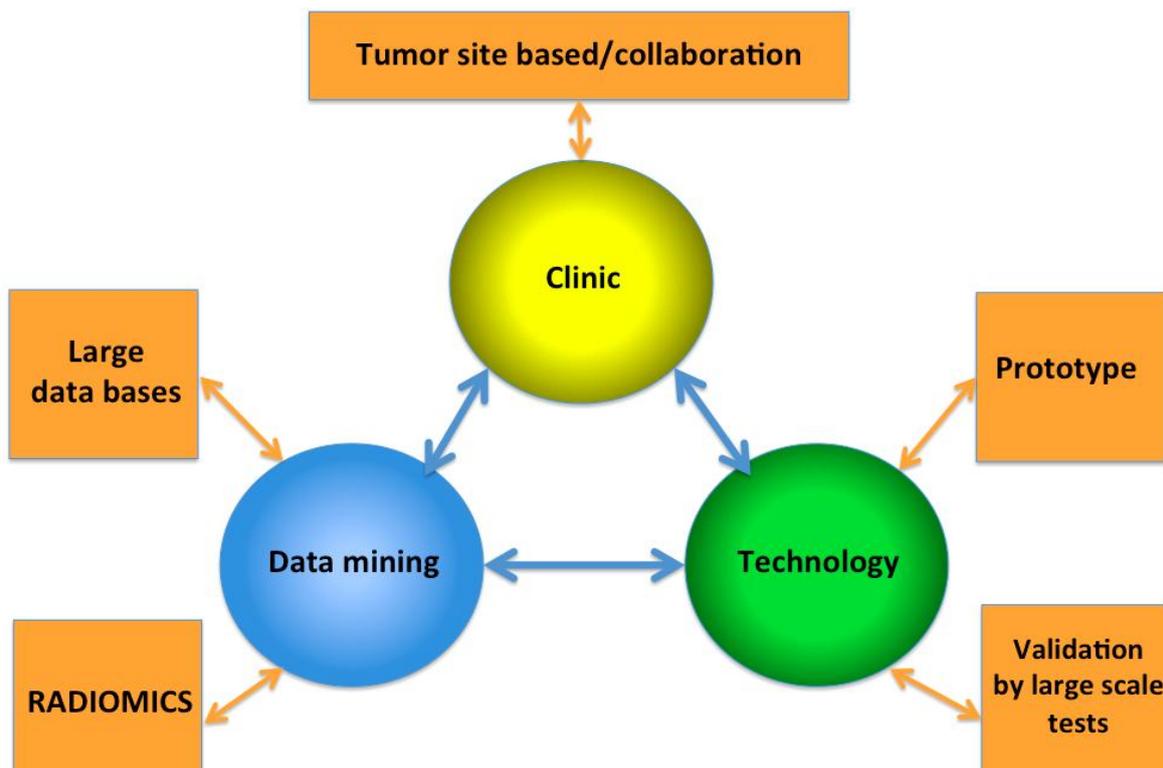
- **Areas of specialization**

At GEMELLI-ART, all types of cancer are treated by using a regular multidisciplinary approach involving, on a weekly basis, dedicated meetings with surgeons, radiologists, medical oncologists and other specialized physicians, in order to provide patients with a uniquely tailored treatment strategy. The process of multidisciplinary management is best achieved by using a multi-user system, based on integrated palm technology, called «Spider»; this system was specifically created in order to facilitate data recording, managing and sharing through intra-internet connection. It is integrated with supporting design tools.

- **Ongoing projects/studies/clinical trials**

The main fields of research promoted by GEMELLI-ART with national and international collaborations are:

GEMELLI-ART Research plan



- **In-house news (conferences, workshops, training opportunities, etc.)**

The center offers several training opportunities by organizing every year conferences and meetings regarding clinical and technological topics; noteworthy, the annual residential course which has attracted scholars from all over the globe and students for more than 20 years and which is held in March.

The residents program is attended by 20 residents, and 7 PhDs are working at GEMELLI-ART.

GEMELLI-ART guested visitor and students from national and international Centers as well as many ESTRO Travel Grants recipients.

- **Information on the equipment used in your department:**

At Gemelli ART center are currently available:

3 LINACs: one dual energy linear accelerator Clinac DHX and two “Truebeam” (Varian)
one HDR microselectron and two PDR microselectron (Nucletron)
one CT Simulator Optima 580 with 4D scanning (GE)

Special attention is devoted to the QA system implementation in a continuous effort, involving all of the people working in the center, in order to provide patients with the best clinical treatment.

- **Any other relevant information**

RT-news is a monthly newspaper, published by the residents of the school of specialization, dealing with educational activities, cultural initiatives and recreational proposals promoted inside the division and open to all medical and paramedical personnel.

The so-called "Day Together" is an event which is particularly felt and participated with great enthusiasm by all members of the department; each year, in fact, excursions are organized at Italian resorts combining natural beauty with the presence of historical and religious monuments. Such experience allows those who take part to live a whole day of friendship, strengthening the sense of belonging to a community with shared values.

“La Rete del Sollievo” (Relief’s Network) is an organizational model that makes easier the transfer of patients, with the relative clinical information, among the different care facilities: Hospice, Home-care and Radiation Oncology Department. In our Department there are some “dedicated” beds where patients can have their proper radiotherapy applications during short term admissions and then return either to the Hospice or to their home thus allowing them, and their relatives, a high quality standard of life with full respect of their dignity.