

Division of Radiology

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Division Director

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Activities 2007. In 2007 the technological fleet of the Division has been increased by a new 1.5T MR and a mobile digital X-ray; the number of diagnostic workstations and PACS clients has also been increased to over 20 posts. The Division is extremely up-to-date in both clinical and research activities.

The clinical activity has continuously increased through the years, reaching 90.000 procedures performed in 2007. The clinical activity and the individual Radiologist's expertise are organ-oriented and not based on the different diagnostic techniques, and the Clinical Divisions have their own dedicated space both in daily work planning and in multidisciplinary case discussion. Breast Imaging and Vascular and Interventional Radiology are performed by two dedicated Units with own staff.

The research activity is deeply integrated with the daily clinical work and over 10% of exams are performed on patients who are enrolled in clinical trials. Ongoing research is focused on different topics: lung cancer screening, imaging of angiogenesis in solid tumors, development and clinical assessment of new contrast media for diagnosis or staging of tumors, development of new diagnostic tools. The principal advances in knowledge arising from our 2007 studies, may be summarized with the following statements: ultrasound contrast medium improves the RECIST evaluation of liver metastases in steatotic liver; the histological diagnosis of endolaryngeal masses can be safely and accurately obtained by ultrasound-guided transcutaneous tru-cut biopsy; MRI is superior to mammography and ultrasound in diagnosing breast cancer in high risk women; multidetector CT scan is accurate and reproducible for the measurement of hypopharyngeal and laryngeal tumours volume; when added to the routine CT examination of patients with rectal cancer undergoing neo-adjuvant chemo-radiation therapy, CT perfusion has the potential for monitoring the response to treatment; multidetector CT and FDG-PET/CT have the same accuracy in the diagnosis of local and distant recurrence of resected rectal cancer; pulmonary nodules < 5 mm detected with low-dose CT in asymptomatic smokers can



be safely checked at one year interval; CT perfusion is able to assess metastatic involvement of enlarged axillary lymph nodes in patients with breast cancer. In 2007 the Radiologists of the Division contributed to the publication of 24 scientific papers, for a total IF of 81.862.

The Division of Radiology is member of European Institute of Biomedical Imaging Research and strict co-operation in research and medical education is maintained with the Royal Marsden Hospital in London and Massachusetts General Hospital in Boston.

The Division is deeply involved in educational programmes, being part of the teaching activities of the School of Medicine, School of Radiographers, Post-graduate School of Radiology and Master in Senology of the University of Milan and of ESOR (European School of Radiology). In 2007 we organized 6 residential courses, with a total of 132 ECM credits.