

Protocollo	Tipologia	Titolo dello studio	Status	Promotore
CNAO S24 2014 C	Interventistico	STUDIO comparativo randomizzato sulla radioterapia con ioni carbonio e la radioterapia convenzionale –inclusa protonterapia – per il trattamento dei tumori radio resistenti– PHRC ETQILE	In arruolamento	Hospices Civils de Lyon
CNAO S25 2014 C	Interventistico	Studio clinico di fase II su uno schema di trattamento boost con ioni carbonio seguito da IG-IMRT per il tumore prostatico ad alto rischio	In arruolamento	IEO
CNAO S33 2016	Interventistico	Sacral Chordoma: studio randomizzato e osservazionale sulla chirurgia in confronto alla radioterapia nella malattia primitiva localizzata (SACRO)	In arruolamento	Italian Sarcoma Group (ISG)
CNAO OSS 13 2020	Osservazionale	Hypofractionated pencil beam scanning carbon ion radiotherapy for lung tumors: a feasibility study	Approvato dal CE	CNAO
CNAO OSS 14 2020	Osservazionale	Re-irradiation With Carbon Ion Radiotherapy for Pelvic Rectal Cancer Recurrences in Patients Previously Irradiated to the Pelvis	Approvato dal CE	CNAO
CNAO OSS 15 2020	Osservazionale	Improved 4D robust treatment planning for carbon ion radiotherapy of pancreatic tumors	Approvato dal CE	CNAO
CNAO OSS 16 2020	Osservazionale	RBE-weighted dose conversion between Microdosimetric Kinetic Model (MKM) and Local Effect Model (LEM) in abdominal carbon ion radiotherapy	Approvato dal CE	CNAO
CNAO OSS 17 2020	Osservazionale	Carotid Blow Out (CBO) syndrome in pazienti sottoposti a re-irradiazione per neoplasia del rinofaringe: studio retrospettivo multicentrico	Approvato dal CE	IEO
CNAO OSS 18 2020	Osservazionale	Particle radiation therapy in patients with autoimmune diseases: propensity score analysis of a retrospective cohort study	Approvato dal CE	CNAO
CNAO OSS 19 2020	Osservazionale	Effects of the dose-volume relationship and clinical risk factors for maxillary osteoradionecrosis after carbon ion radiotherapy	Approvato dal CE	CNAO
CNAO OSS 20 2020	Osservazionale	Carbon-Ion Radiation Therapy for Mucosal Melanoma of the Head and Neck: clinical results in patients treated in CNAO	Approvato dal CE	CNAO
CNAO OSS 21 2020	Osservazionale	Proton and Carbon ion therapy for skull-base chondrosarcoma	Approvato dal CE	CNAO
CNAO OSS 22 2020	Osservazionale	Retrospective analysis of sequential carbon ion radiation therapy and immune checkpoint inhibitors in advanced melanoma patients	Approvato dal CE	CNAO
CNAO OSS 23 2021	Osservazionale	Diffusion-weighted Magnetic Resonance Imaging to predict Carbon Ion Radiation Therapy effectiveness on rectal cancer recurrences	Approvato dal CE	CNAO
CNAO OSS 24 2021	Osservazionale	How RBE and dose-averaged LET distributions affected treatment outcomes of sacral chordoma patients treated with carbon ion therapy	Approvato dal CE	CNAO
CNAO OSS 25 2021	Registro	CNAO Registry Trial REGAL	Approvato dal CE	CNAO
CNAO OSS 26 2021	Osservazionale	Carbon ion radiotherapy for adenoid cystic carcinoma (of the head and neck): in-silico feasibility study of simultaneous integrated boost treatments	Approvato dal CE	CNAO
CNAO OSS 27 2021	Osservazionale	Advanced image processing in CBCT imaging for treatment verification and adaptation in particle therapy	Approvato dal CE	CNAO
CNAO OSS 28 2021	Osservazionale	Evaluation of a Deep Learning approach for pupil detection and eye tracking during ocular proton therapy	Approvato dal CE	CNAO
CNAO OSS 29 2021	Osservazionale	Dosimetric effect of variable rectum and sigmoid colon density during carbon ion radiotherapy to sacral chordoma	Approvato dal CE	CNAO
CNAO OSS 30 2021	Registro	EORTC protocol 1811. E ³ -RADIAT: EORTC-ESTRO Radiotherapy Infrastructure for Europe	Approvato dal CE	EORTC
CNAO OSS 31 2021	Registro	E ³ -RADIAT - OligoCare: A pragmatic observational cohort study to evaluate radical radiotherapy for oligo-metastatic cancer patients	Approvato dal CE	EORTC
CNAO OSS 32 2021	Osservazionale	Optimization of b-value schemes for Intravoxel Incoherent Motion (IVIM) diffusion MRI	Approvato dal CE	CNAO
CNAO OSS 33 2021	Osservazionale	NTCP model based patient selection approach for proton therapy in sinonasal cancer patients with orbital invasion	Approvato dal CE	CNAO
CNAO OSS 34 2021	Osservazionale	Outcome and toxicity of Head and Neck Adenoid Cystic Carcinoma patients treated at CNAO with protons or carbon ions	Approvato dal CE	CNAO
CNAO OSS 35 2021	Osservazionale	Biochemical peripheral blood as biomarkers of outcomes and toxicities in oncological patients treated with carbon ions therapy for radioresistant tumors: an explorative study – NEWADRON	Approvato dal CE	CNAO
CNAO OSS 36 2021	Osservazionale	Multiparametric cardiac monitoring in patients treated with hadrontherapy for thoracic tumors. CONSTANCE Study: Carbons and ProTON boost for cervical cancer	Approvato dal CE	CNAO
CNAO OSS 37 2021	Osservazionale	“Dosimetric Comparison of Active-Spot Scanning Carbon Ion Radiotherapy (CIRT) and Volumetric-Modulated Arc Therapy Radiation (VMAT) as a Boost in Carcinoma of Cervix unfit for Brachytherapy (BT)”	Approvato dal CE	CNAO
CNAO OSS 38 2021	Osservazionale	Radiation-induced temporal lobe injury developing from proton therapy in skull base chordoma and chondrosarcoma patients: NTCP modeling and LET evaluation.	Approvato dal CE	CNAO
CNAO OSS 39 2021	Registro	RARITY Registry of the European Reference Network on Rare Adult Solid Cancers “EURACAN”	Approvato dal CE	INT
CNAO 35 2017 C	Interventistico	STUDIO CLINICO FASE II PER IL TRATTAMENTO PREOPERATORIO DI ADENOCARCINOMI DEL PANCREAS BORDERLINE CON CHEMIOTERAPIA E RADIOTERAPIA CON IONI CARBONIO - PIOPPO	In arruolamento	CNAO
CNAO 37 2019	Interventistico	MRI-guidance for organ motion management in particle treatments of thoraco-abdominal tumours	In arruolamento	CNAO
CNAO 40 2020 C	Interventistico	CYCLE Carbon ion radiation therapy in the treatment of mucosal melanomas of the female lower genital tract	In arruolamento	CNAO
CNAO 41 2020 C	Interventistico	CYCLOPS Phase II clinical study on the re-irradiation of lateral pelvic recurrences of gynecological malignancies	In arruolamento	CNAO
CNAO 43 2021	Osservazionale + interventistico	A technical framework for combining multi-parametric imaging with advanced modelling in personalized radiotherapy (AIRC IG 2020 – n. 24946)	Approvato dal CE	CNAO