

XXXII CONGRESSO NAZIONALE AIRO
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XII CONGRESSO NAZIONALE AIRO GIOVANI

AIRO2022

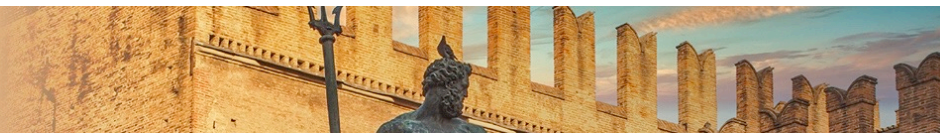
Radioterapia di precisione per un'oncologia innovativa e sostenibile

BOLOGNA, 25-27 NOVEMBRE
PALAZZO DEI CONGRESSI

 Associazione Italiana
Radioterapia e Oncologia clinica

 Società Italiana di Radiobiologia

 Associazione
Italiana
Radioterapia
e Oncologia
clinica

DICHIARAZIONE

Relatore : FEDERICO GAGLIARDI

Come da nuova regolamentazione della Commissione Nazionale per la Formazione Continua del Ministero della Salute, è richiesta la trasparenza delle fonti di finanziamento e dei rapporti con soggetti portatori di interessi commerciali in campo sanitario.

- Posizione di dipendente in aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Consulenza ad aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Fondi per la ricerca da aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Partecipazione ad Advisory Board **(NIENTE DA DICHIARARE)**
- Titolarità di brevetti in compartecipazione ad aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Partecipazioni azionarie in aziende con interessi commerciali in campo sanitario **(NIENTE DA DICHIARARE)**
- Altro



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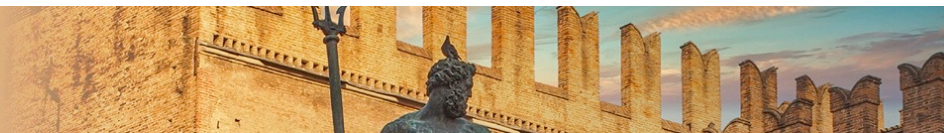
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Radioterapia ipofrazionata bisettimanale in pazienti ultra anziani con tumore epiteliale della pelle in stadio avanzato

Dott. Federico Gagliardi

Hope is kindled: bi-weekly hypofractionated radiotherapy in ultra-elderly with advanced NMSC



INTRODUCTION

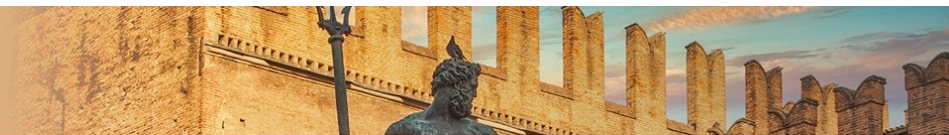
Variation of weekly precences in the UK compared to 2019

February 2020	-2,4%
March 2020	-8,5%
April 2020	-29,1%
May 2020	-31,4%
June 2020	-31,5%

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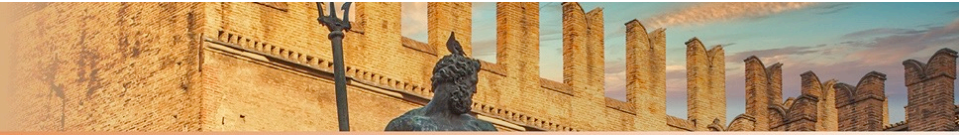
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AIM



Treatment of elderly patients
unsuitable for surgery in NMSC



BACKGROUND

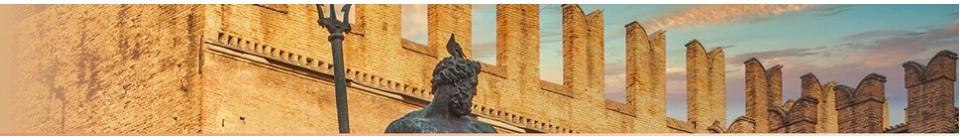
NCCN Guidelines Version 2.2022

Non-melanoma
skin cancers

Squamous cell carcinoma, SCC
Basocellular carcinoma, BSC

Standard excision / Mohs

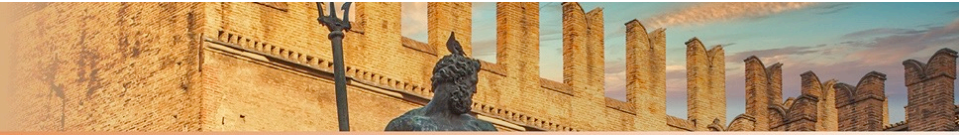
Radiation therapy
for non-surgical candidates



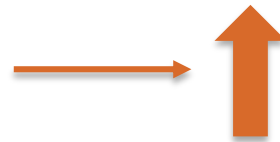
BACKGROUND

Dosing Prescription Regimen

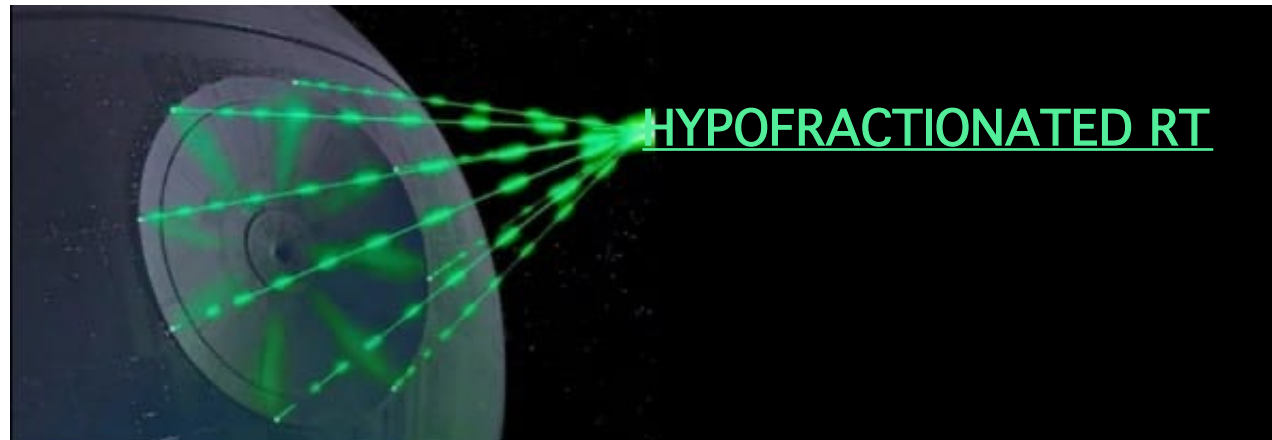
<u>Definitive RT</u>	<u>Examples of Electron Beam Dose and Fractionation</u>
Tumor diameter <2 cm	60–64 Gy over 6–7 weeks 50–55 Gy over 3–4 weeks 40 Gy over 2 weeks 30 Gy in 5 fractions over 2–3 weeks
Tumor diameter ≥2 cm, T3/T4, or those with invasion of bone or deep tissue	60–70 Gy over 6–7 weeks 45–55 Gy over 3–4 weeks
<u>Postoperative Adjuvant RT</u>	60–64 Gy over 6–7 weeks 50 Gy over 4 weeks



Many fractions



Pandemic exposure risk





METHODS

RADIATION ONCOLOGY—REVIEW ARTICLE

Efficacy of hypofractionated radiation therapy for non-melanoma skin cancer: Results of a meta-analysis

Dakshika A Gunaratne¹ and Michael J Veness^{2,3,4}

1 Department of Otolaryngology, Head and Neck Surgery, Westmead Hospital, Sydney, New South Wales, Australia
 2 Department of Radiation Oncology, Westmead Hospital, Sydney, New South Wales, Australia
 3 Department of Radiation Oncology, Crown Princess Mary Cancer Centre, Sydney, New South Wales, Australia
 4 University of Sydney, Sydney, New South Wales, Australia

**RT PRESCRIPTION DOSE
 50-60 Gy in 10 fraction
 (5-6 Gy/fx bi-weekly)**

Mono- and Bi-weekly Hypofractionated Radiation Therapy for the Treatment of Epithelial Skin Cancer in Very Elderly Patients

A NICOSIA¹, LINDA AGOLLI¹,
 M. ALVAGNO¹, VITALIANA DE SANCTIS¹,
 G. CARLESIMO² and MATTIA F. OSTI¹

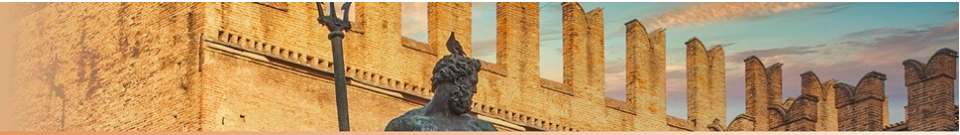
¹Department of Radiation Oncology, Sant' Andrea Hospital, Rome, Italy

adenosquamous carcinomas correlates with a higher likelihood of metastasis and poor prognosis. Nevertheless primary definitive treatment for localized tumors can be curative (2). Treatment options include surgery, radiotherapy, cryoablation, cauterization, photodynamic therapy and topical treatment with 5-fluorouracil or imiquimod cream.

Hypofractionated radiation therapy for basal and squamous cell skin cancer: a meta-analysis

Nicholas G Zaorsky, MD^{1,2,*}, Charles T Lee, BS^{1,*}, Eddie Zhang, MD¹, Scott W Keith, PhD³, Thomas J Galloway, MD¹

(1) Department of Radiation Oncology, Fox Chase Cancer Center, Philadelphia, PA



PATIENTS

- October 2021 - May 2022
- Patient 14: 10 Male (71.4%), 4 Female (28,6%)
- Median age: 89 years (86-98 years)
- Histology: 8 SCC (57%), 6 BSC (43%)
- Median tumor size: 40 mm (range 35-63 mm)
- TNM: cT2 3 pts, cT3 11 pts/ 14/14 N₀M₀



The date are updated to 10/11/22

RESULTS

Follow-up: 7 months (range 4-12 months)

Toxicity	Patients
G3-4 acute toxicity	0 pts
G2 acute skin toxicity	2 pts (14%)
G2 acute mucositis	1 pt (7%)

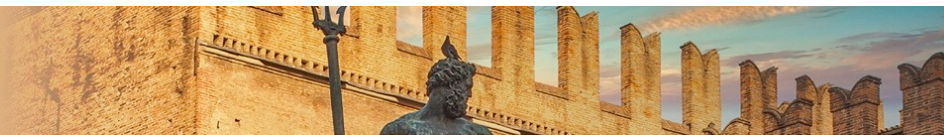


Local Control at 9 months of 100%.

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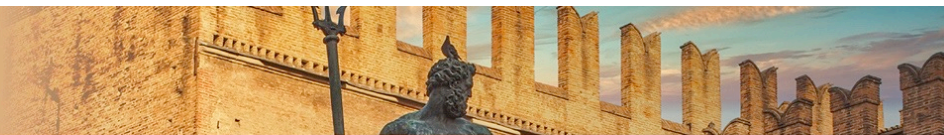
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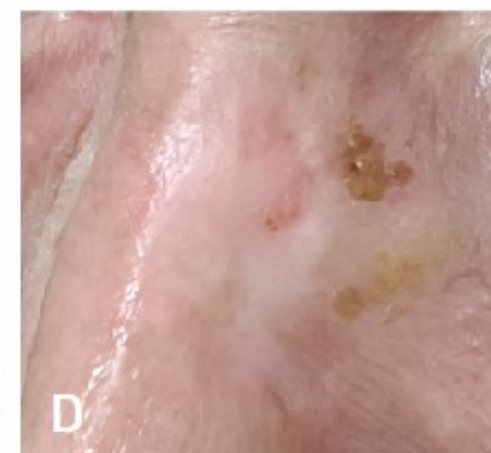
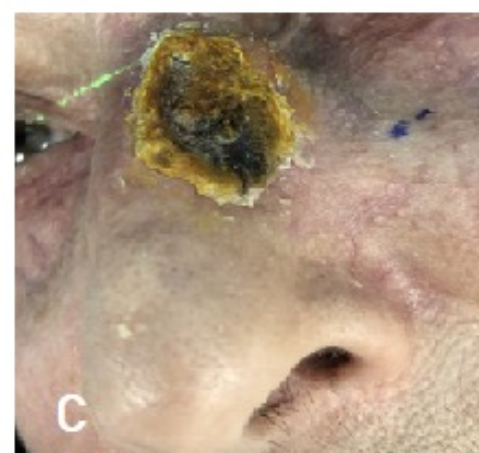


RESULTS





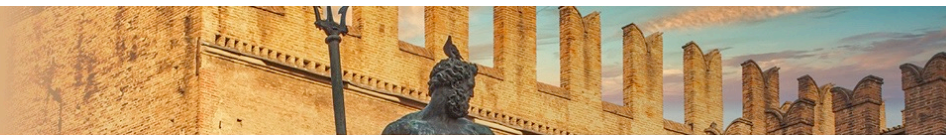
RESULTS



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RESULTS





CONCLUSIONS

RT with bi-weekly schedule is a well-tolerated and safe treatment.

Could be a good option for

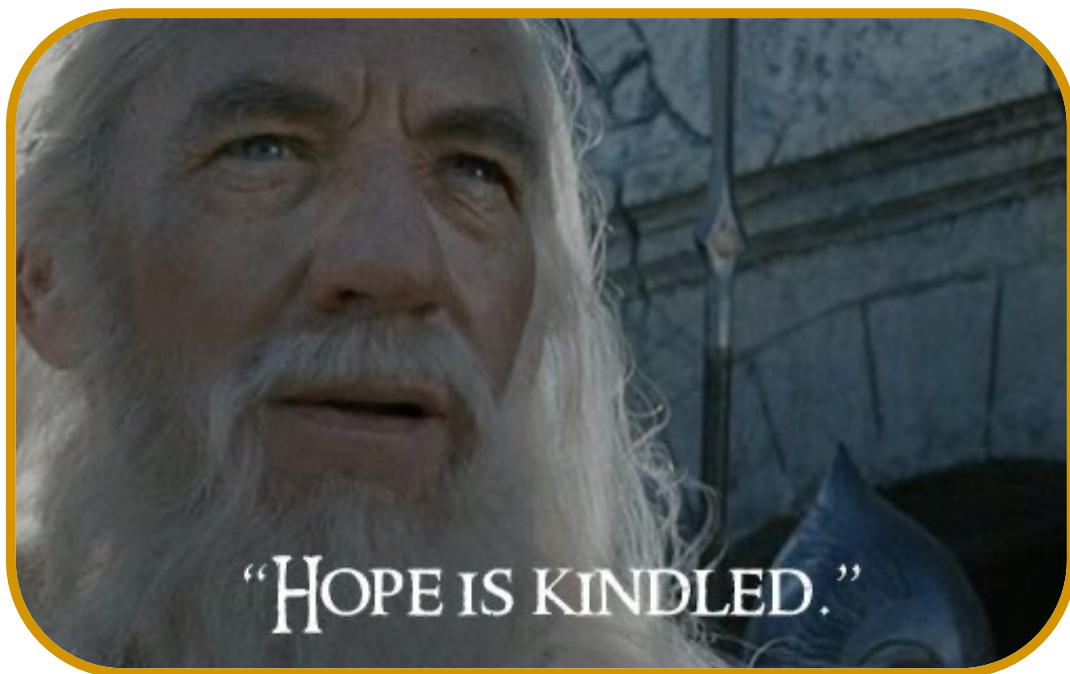
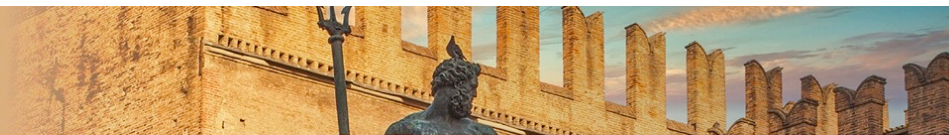
pts unfit for surgery

reducing the access in RT facilities

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GRAZIE per L' ATTENZIONE