





XXVI CONGRESSO NAZIONALE AIRO XXX CONGRESSO NAZIONALE AIRB IX CONGRESSO NAZIONALE AIRO GIOVAN



Stereotactic body radiotherapy (SBRT) for locally advanced pancreatic cancer (LAPC): a retrospective multi-institutional experience

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Background

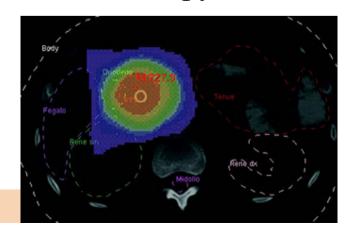
2030→Pancreatic carcinoma the 2^ leading cause of cancer mortality.

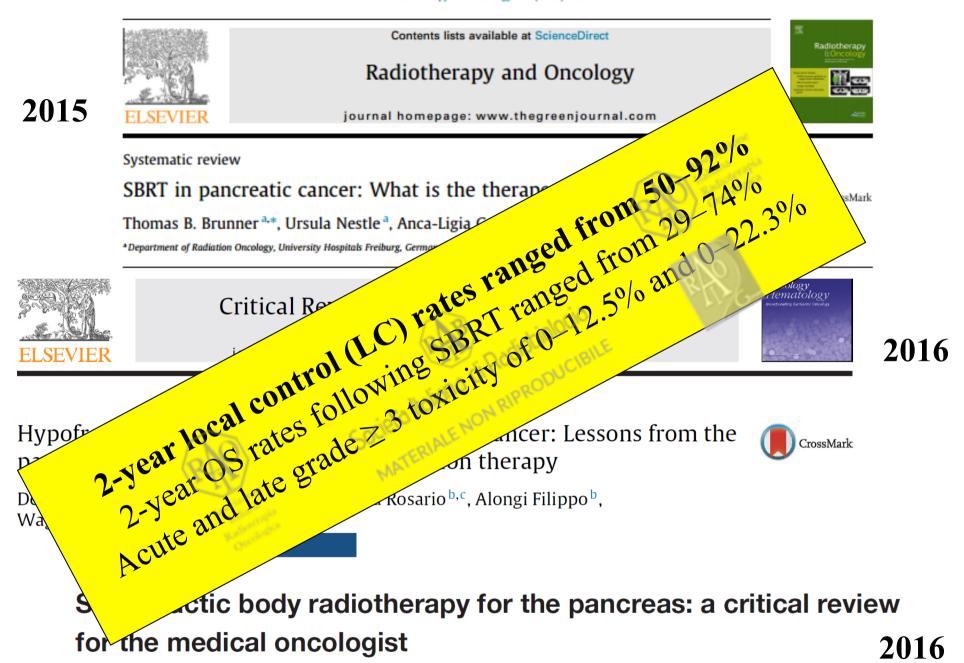
At diagnosis, 30% pts→LAPC→intermediate prognosis between resectable and metastatic pts (median OS ranging from 5 to 11 months).

A treatment option for LAPC is radio-chemotherapy (RCT).

One emerging technique SBRT deliver a higher biologically effective dose of precisely targeted radiation in a short course of therapy.

Conformity and rapid dose fall-off associated with SBRT offer the potential for dose escalation.





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informa healthcare

CLINICAL TRANSLATIONAL THERAPEUTICS

Quality of Life and Toxicity of Stereotactic Radiotherapy in Pancreatic Tumors: A Case Series

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Original research article

Individually optimized stereotactic radiotherapy for pancreatic head tumors: A planning feasibility study



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AIRO GASTROINTESTINAL STUDY GROUP

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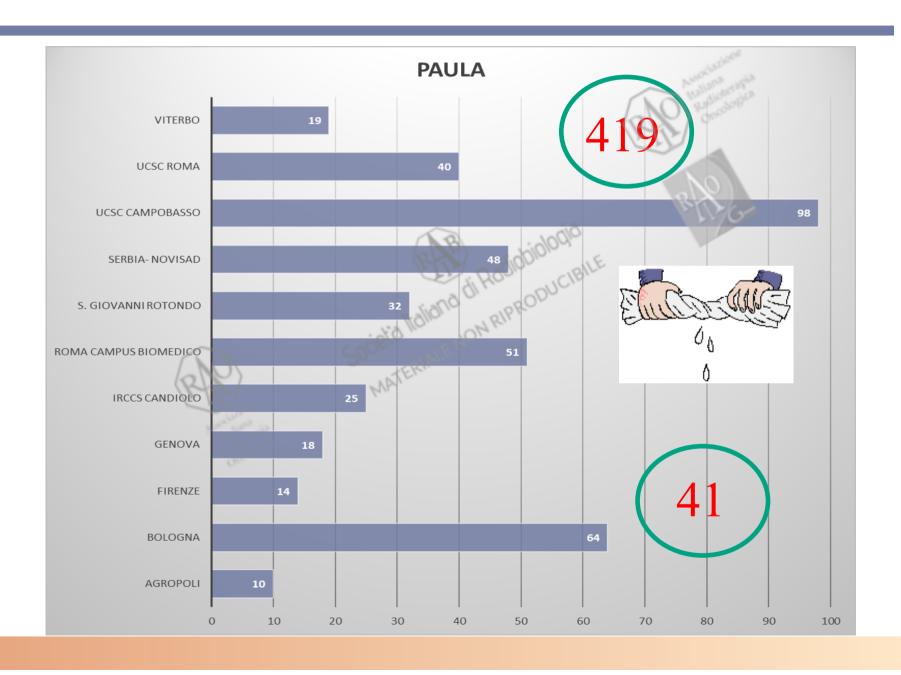




Approved by the Ethics Committee and the Institutional Review Board S.Orsola Mapighi Hospital - University of Bologna



ACCRUAL



Aim/Methods/Results (1)

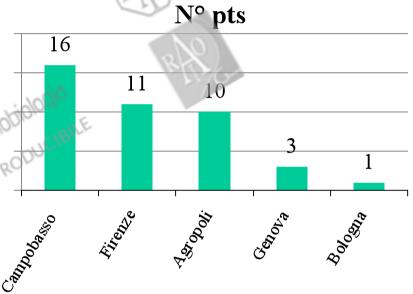
We retrospectively review the experience of 5 different centers treating LAPC with SBRT.

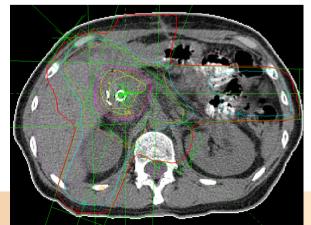
41 pts (M/F: 21/20; median age: 71, range: 36-89) with LAPC, undergoing SBRT +/- chemotherapy (CT) with multiagent CT regimens.

Exclusion criteria were metastatic disease and radical surgical treatment. Only palliative surgery was admitted.

Median dose: 25 Gy (range: 4-45) Median

fractionation: 6 Gy (range: 4-22)





Results (2)

Gastrointestinal (GI) G1-G2 acute toxicity was 40% (CTCAE.4 scale).

1 patient with G3 GI acute toxicity

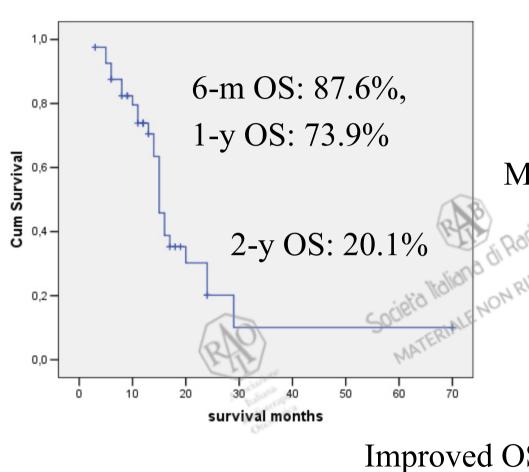
1 patient with G3 GI late toxicity

At univariate analysis a better prognosis:

- \rightarrow pts with tumor located at the tail (p= 0.046),
- \rightarrow histological grade 2 tumor (p<0.001),
- \rightarrow adjuvant chemotherapy (p=0.036).

Results (3)

Overall survival



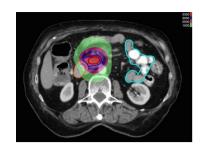
Median OS: 15 m (range 13.5-16.4)

cT3 tumor stage (p=0.085)

biliary stent (p=0.066)







Fractionated SBRT +/- CT results in tolerable acute and minimal late GI toxicity and warrants OS comparable to current standard treatment (RCT).



Neoadjuvant Stereotactic Radiation Therapy plus Induction Chemotherapy for Unresectable Pancreatic Tumors (IRENE-1: Improving REsectability in pancreatic NEoplasms)

- unresectable pancreatic adenoca
- chemotherapy: > 4 cycles
- stereotactic RT: 5 x 6 Gy, between courses 1 & 2
- after 4 weeks → restaging → surgery
- pending approval by Bologna Univ. EC

