#634 Intra-operative radiation for pancreatic cancer: Initial experience at the Hadassah **Medical Center**

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Introduction

- The prognosis following surgery for pancreatic cancer remains poor, local recurrence is common and negatively impacts the survival rate.
- To improve local control and potentially improve survival, we have adopted a strategy of adding intra-operative electron radiation therapy (IOeRT) to selected patients undergoing pancreatic resection for pancreatic cancer.
- Its main advantage is the ability to locally deliver a high radiation dose, therefore boosting the effect of pre-op stereotactic body radiation therapy (SBRT).
- Here we report our initial experience with this treatment modality.

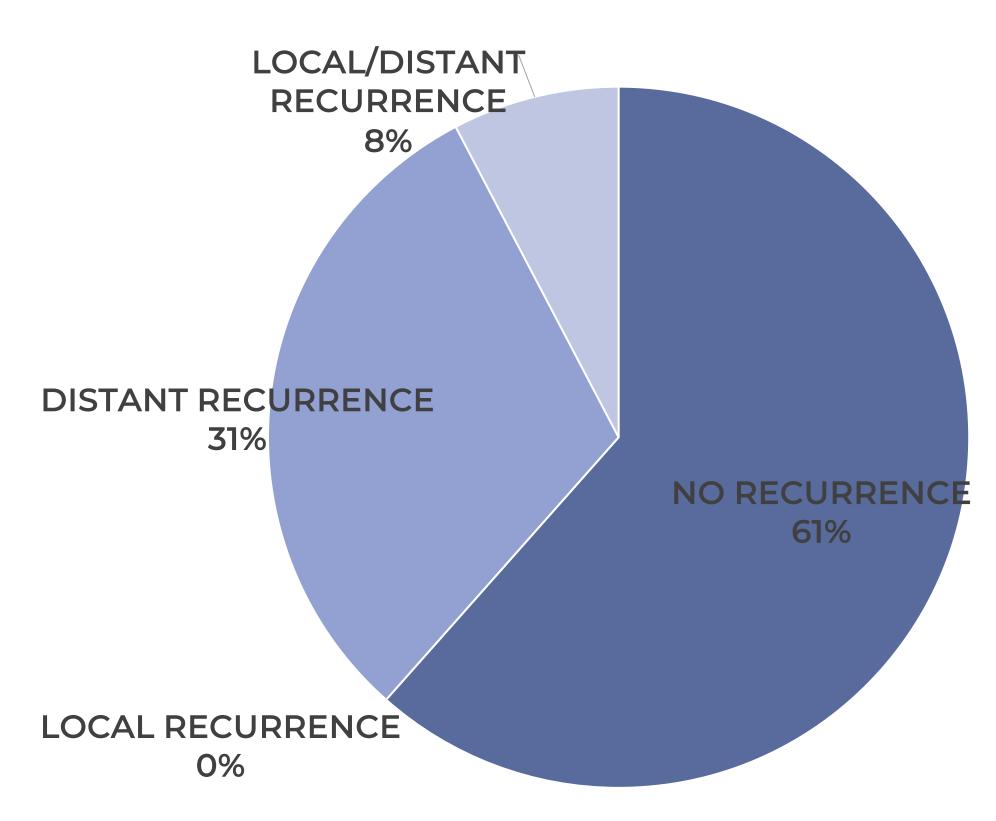
Methodology

- This is a retrospective review of patients who were at risk of not achieving satisfactory resection margins by surgery alone.
- treated with pre-operative They were SBRT and neoadjuvant therapy.
- 2-4 weeks later patients underwent surgical intervention (whipple, distal pancreatectomy).
- Immediately after resection IOeRT was delivered to a dose of 10-15 Gy at the tumor bed deemed at high risk for recurrence.

Combining neoadjuvant radiotherapy with SBRT followed by IOeRT boost at surgery appears feasible and safe.

This strategy demonstrated high local control and low toxicity following the resection of pancreatic cancer. However, longer follow-up and larger-scale studies are necessary.

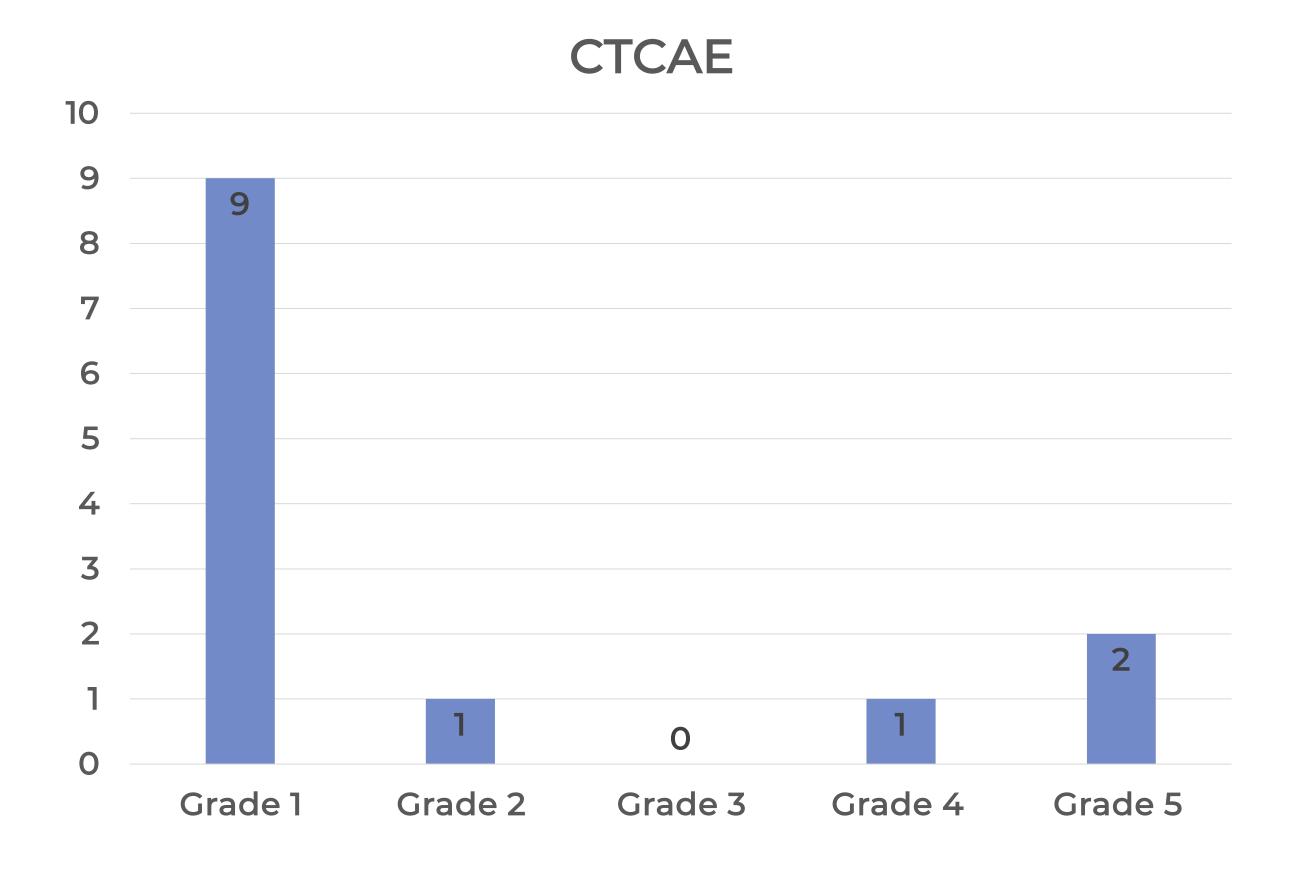
Results



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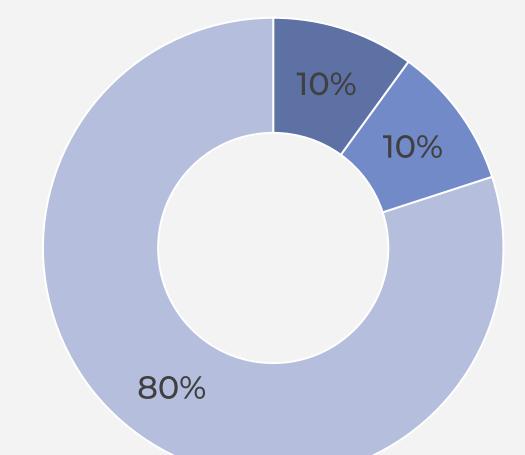
Methodology

TREATMENT				
No.	Pre-Op	Surgery – Pancreatic Resection	lOeRT	
8 pts	Neoadyuvant chemotherapy + SBRT	5 Whipple, 3 distal pancreatectomy	YES	
3 pts	SBRT	3 distal pancreatectomy	YES	
2 pts	NO	1 whipple, 1 distal pancreatectomy	YES	
1 pt	Neoadyuvant chemotherapy + SBRT	No surgery due to tumor progression	NO	

Results

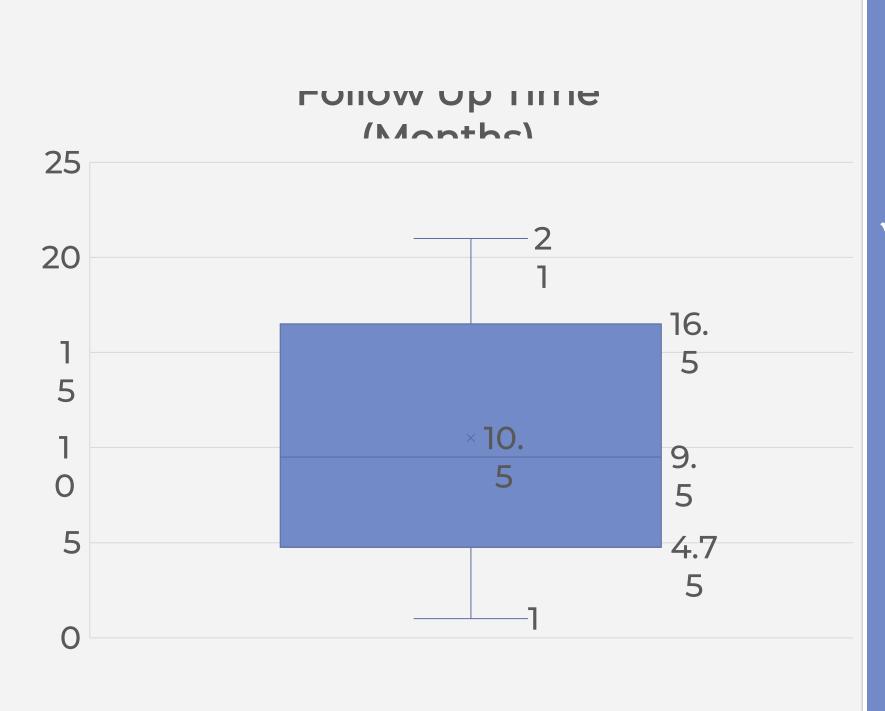
DEMOGRAPHICS			
Gender	Male	10	
Gender	Female	4	
Age	Mean	66.17	

Long-term Post-Operative Complications



RT Hepatic artery occlusion

- Portal vein stenosis
- Prolonged GI tract dysfunction



REMARKS:

2 pts carriers of BRCA gene mutation showed a complete pathological response. I pt died in due to early post-op complications (AOCRF+Pneumonia) unlikely result from radiotherapy. ✓ 1 pt died from longterm post-op complications (hepatic artery occlusion, biloma, biliary sepsis) likely result from radiotherapy.