

A Retrospective Review of LVHN Compliance With Diagnostic Workup For Pancreatic Cancer Per NCCN Guidelines

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Published In/Presented At

Scialla, C., Sopka, D., Skanda, S., Kratz, M. (2021, August). *A Retrospective Review of LVHN Compliance With Diagnostic Workup For Pancreatic Cancer Per NCCN Guidelines*. Poster Presented at: LVHN Research Scholar Program Poster Session, Lehigh Valley Health Network, Allentown, PA.

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Introduction

- In 2021, an estimated 60,430 Americans will be diagnosed with pancreatic cancer
- Pancreatic cancer has a notoriously low survival rate because there are no detection tools to diagnose the disease early and initial symptoms are subtle and nonspecific
- 5-year survival rate according to National Cancer Institute Surveillance, Epidemiology, and End Results Program (NCI SEER) is approximately 10.8%
- Treatment options include surgery, radiation, and chemotherapy
- The National Comprehensive Cancer Network (NCCN) put forth recommendations for the management of pancreatic cancer

Objectives

- To determine how well treatment offered to pancreatic cancer patients at LVHN in 2019 complied with NCCN guidelines
- To highlight areas in which LVHN might better its compliance with NCCN guidelines for pancreatic cancer

Methods

- Retrospective chart review of 108 cases of pancreatic cancer treated at LVHN in 2019
- 65 cases were excluded from final analysis because:
 - Treatment for pancreatic cancer received at another hospital (42)
 - Patient declined treatment (21)
 - Patient expired before treatment was initiated (2)
- Used Epic to review the electronic medical records of the pancreatic cancer patients treated by LVHN in 2019
- Used Excel to record the extracted data. Focused the final analysis on 6 NCCN guidelines: multidisciplinary clinic (MDC) before treatment, ECOG performance status before chemotherapy, CA 19-9 bloodwork and CT before surgery, and referral to genetics and nutrition

Results

Figure 1 (below)

NCCN Guideline	Total Patients	Compliant Patients	Percentage Compliant
MDC Before Treatment	43	11	25.58
ECOG Before Chemo	38	35	92.10
CA 19-9 Before Surgery	23	11	47.83
CT Before Surgery	23	22	95.65
Referral to Genetics	43	19	44.19
Referral to Nutrition	43	43	100.0

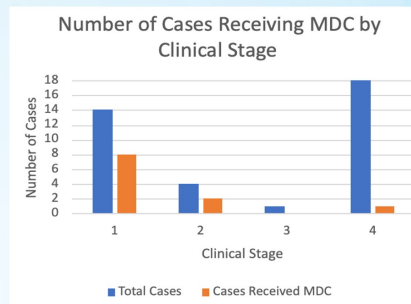
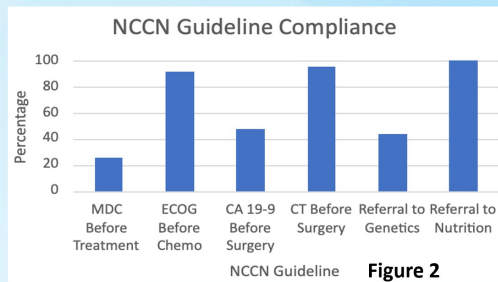


Figure 3 (above)

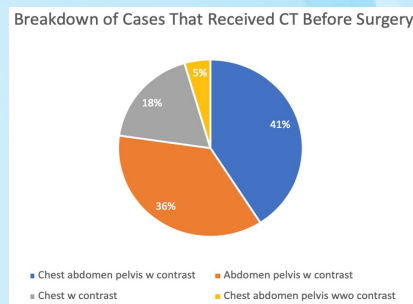


Figure 4 (above)

Conclusions

- As demonstrated by **Figures 1 and 2**, LVHN's percentage compliant differed depending on the guideline in question
- **Figure 3** shows that early clinical stage cases, particularly stage 1 cases, are reviewed by MDC at a significantly higher percentage than late clinical stage cases
- Although over 95% of cases received CT prior to surgery, **Figure 4** reveals that the type of CT ordered varied by case. While most cases received a CT that includes the chest, 36% received a CT that only includes the abdomen and pelvis

Future Directions

- Evaluate referral process to MDC to ensure that all patients are seen rather than just early clinical stage cases
- Increase number of cases that receive baseline CA 19-9 prior to surgery
- Increase number of cases that receive chest CT prior to surgery
- Evaluate referral process to genetics to maximize the number of cases that receive germline testing

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