

Improving Referrals for Universal Genetic Testing for Pancreatic Cancers at a Regional Cancer Center

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Benefits of Detecting

Abstract:

National consensus guidelines recommend hereditary testing for all patients with pancreatic cancer, regardless of family history, as identification of actionable mutations can not only guide specific therapy, but also provide impetus to test and screen their family members.

We have quantified the numbers of patients seen at our cancer center with pancreatic cancer via electronic medical record queried for diagnosis of all stages of disease. Of these, we determined those referred for hereditary testing. Between 2021 to 2022, we saw that 19.41% patients, increasing to 38.46% were referred for germline testing. Of these, pathogenic variants were identified in 15%, with a majority in *BRCA2*. In 2023, this number of referrals is steadily increasing after active communication with multidisciplinary oncologists in our center.

Introduction:

Pancreatic cancer (PancCa) is rare, however, the 3rd-4th deadliest cancer in women and men, respectively per the latest ACS statistics.

The ACS and other national cohorts list PancCa as a stand-alone criterion for offering hereditary testing regardless of stage of the disease. Several national groups have introduced initiatives to improve universal germline testing in larger centers, including:

 implementing electronic notifications in medical record systems to prompt automatic referral

• genetic counselor-driven testing stations within oncology clinics Determination of actionable targetable mutations may guide speci

therapy, as well as specific surveillance for family members. In addition, cascade testing is available for all family members of those with positive gene mutations.

Methods:

We quantified the numbers of patients seen at Upstate Cancer Center as diagnosed with pancreatic cancer, all stages, via surgical/medical oncology provider-driven referral for hereditary germline testing. In an IRB Exempt study, the numbers of patients seen were tabulated via Epic medical record for diagnosis of pancreatic cancer patients and providers of the multidisciplinary clinics at UCC Downtown Syracuse and satellite locations. In addition, these were confirmed by querying the de-identified RedCap database maintained by the UCC Genetics Program for the types of hereditary mutations detected.

10		Positives.	denes.	inplications for increased in	5K5.	Recommendations.	Hereditary Mutations:	
patients with able mutations	2024 20 (40 449/)							
id screen their with pancreatic of disease. Of	2021 20 (19.41%)	2021 20 (19.41%) 5 (25%)) Hereditary Breast/Ovarian Cance		Platinum-based chemo + PARP inhibitor	For patients:	
	2022 40 (38.46%)	6 (15%)	ATM (4) Hereditary Breast/F STK11 (1) Peutz-Jehgers synd	lereditary Breast/Pancreati	reatic Cancer	Clinical trials for PARP inhibitor	 Determination of specific 	
	2023 42 (23.70%)	6 (15.4%)		eutz-Jehgers syndrome		Breast and other cancer screening	targeted therapy	
21 to 2022, we	2024 Goal 100%		others:				For Family Members:	
ine testing. Of			CFTR (2)	CF carrier		Family testing	Early detection	
unication with			CHEK2 (1)	lereditary Breast/Colon Car	itary Breast/Colon Cancer	Breast and other cancer screening	Broughtion	
			MITF (2)	Aelanoma		Dermatologic screening	Flevention	
			MUTYH (2)	Colon polyposis		Colonoscopy		
adliest cancer in			NF1 (1)	Veurofibromatosis, GIST		Specialist management		
			NTHL1 (1)	Colon polyposis		Colonoscopy		
sease. Several iversal germline cord systems to ogg clinics guide specific rs. In addition, se with positive	Process: Pt diagnosed: Pancreatic Cancer (adeno ca) Any Age Any Stage	Seen by Oncologist(s) Surgical Medical Radiation		"multigene panel testing" "first-degree relatives" Genetic Counselor (GC Reviews personal hx Reviews family hx Counsels Offers MGPT Obtains consent RESULTS:	Co We see all pant treatme surveilla best pra and to r	Conclusion: e seek to continue to improve upon direct referral for universal testing for pancreatic cancer patients seen at our center in effort to personalize eatment and identify high-risk families who could benefit from early rveillance. We propose a point-of-care referral by all oncology providers as set practice in order to improve on the referral process for hereditary testing, id to model initiatives by several groups across the nation for this goal. * Acknowledgments:		
at Upstate cancer, all iven referral pt study, the Epic medical vatients and C Downtown these were ap database the types of	* GC supplies oncolog	Tumor-based genomic testing if metastatic disease	an Continue current plan Recommend screening FDRs Optimize treatment plan With targeted therapy ied tic Ge		Patri Cynth Cynth Navi Bonn AmricanCaref Blanc, A. Imide Colimedian A, Iai Air Cynthered Colimedian A, Iai Cynthered Colimed	Patricia Muething, MS, IT Data Analyst, Upstate Cancer Center Cynthia Serviss, BSN, RN, CPN, Navigator of Upstate Cancer Center Genetics Program Navigators of Medical, Radiation, and Surgical Oncology programs, Upstate Cancer Center loc Bonnie Braddock, MPH, Genetics Counselor; Rinki Agarwal, MD, Genetic Counseling Program References: Maria Cancer Society while guest access to the second		

education resources

v)_____William (), Goldwerg D, Gordon KM, et al. Implementation of an Embedded in-Clinic Genetic Testing Station to Optimize Germline Testing for Patients with Pancreastic Adenocarcinoms. Oncologist. 2021 Nov/26(11):e1982-e1993. doi:10.1002/como.13998. Epub 2021.559.02. PMID: 3450667; PMID: PMID:



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