ASCO's Quality Training Program

Pancreatic Cancer Biobank



Mitchell Cancer Institute / The University of South Alabama

Moh'd Khushman, M.D Meredith Jones, , MS, BSN, RN, BA



Date: 9/12/2018

Institutional Overview



Medical
Oncologists (N=9)

Nurse Practitioners (N=5)

Radiation
Oncologists (N=3)





As of 2011, the population within a 60-mile (100 km) radius of Mobile is 1,262,907



Academic institution University-based



Problem Statement

Bio-banking blood specimens from patients with cancer is instrumental to research conducted by basic scientists and clinicians. Only 7 % of patients with pancreatic cancer (PC) did get their blood bio-banked at MCI. This negatively impacts grants funding and efforts to reach milestones necessary for NCI designation.

What? 7% of patients with PC get their blood bio-banked

Who? Research team (Basic scientists and medical oncologists)

Where? Mitchell Cancer Institute

When? July 2017 to June 2018

Why? Bio-banking blood specimen from patients with cancer is instrumental to research conducted by basic scientists and clinicians. Grants. NCI designation.





Team Members

Leader: Moh'd Khushman, M.D

Facilitator: Meredith Jones, MS, BSN, RN, BA

Medical Oncology Clinic: William Taylor, M.D; Sachin Pai, M.D; Ashish

Mannie, M.D; Sanjyot Bhadkamkar, NP; Jazzmen Mamuscia, R.N;

Brumeatta Grey, M.A

Basic Science: Ajay Singh, PhD; Seema Singh, PhD; Steven McClellan

Lab: Elizabeth Renee Dees

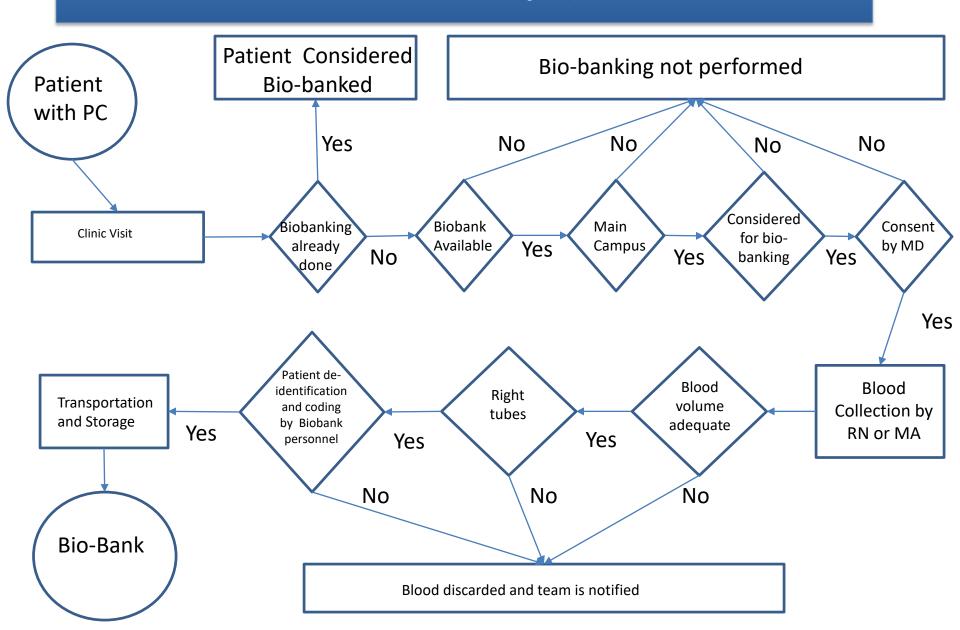
IT support: Cindy Nelson

Regulatory: Winona Blount; Pam Horner; Milton Pierson



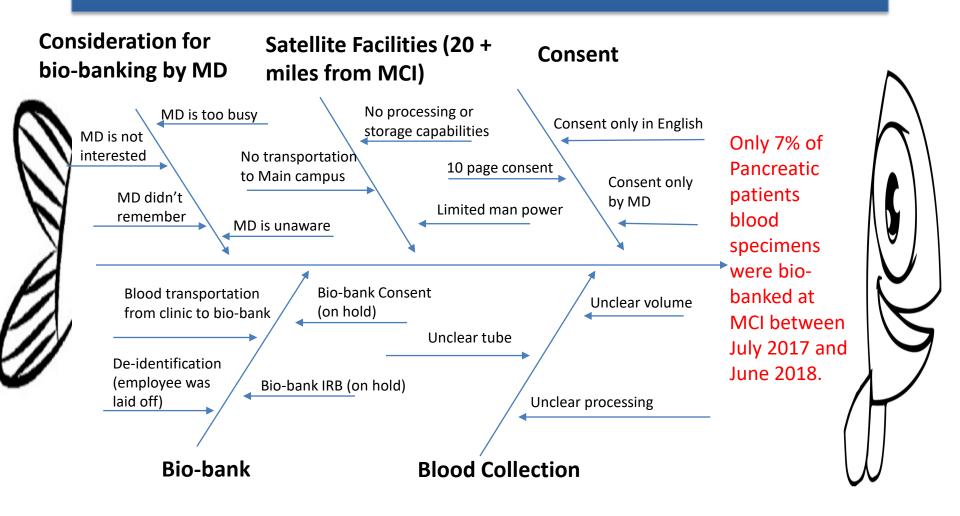


Current Process Map (Flow Chart)





Cause & Effect Diagram







Diagnostic Data

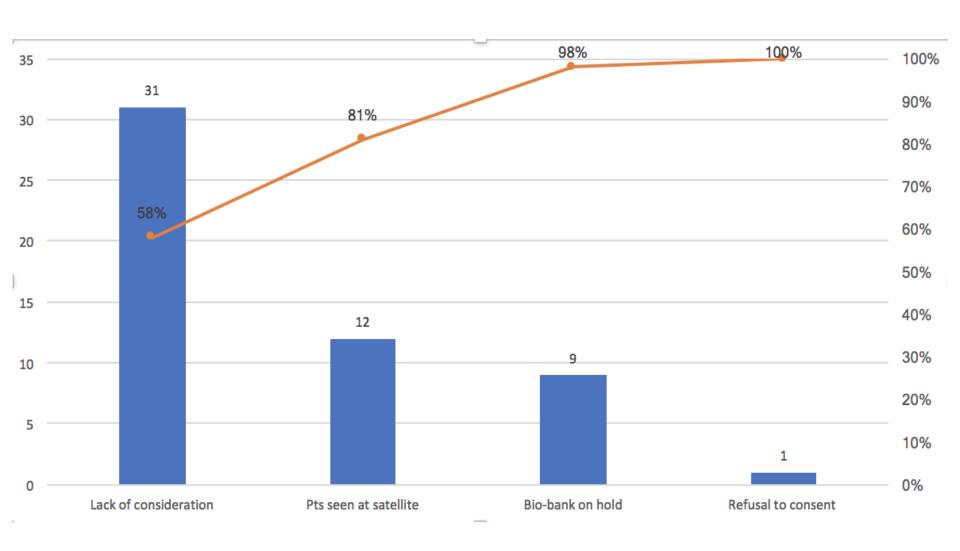
- Observation
- Feedback after a meeting
- Interview with physicians, nurses, lab personnel,
 IT team and regulatory team
- Review of EMR and IT



Baseline Data

- Between 10/2/2017 to 8/8/2018, 57 patients with PC were seen at MCI. 4 out of 57 (7%) patients had their blood bio-banked and 1 out of 57 (2%) patient refused bio-banking.
- 12 out of 57 (21%) patients were seen at our satellite site. No bio-banking is available there.
- Bio-banking through the biobank protocol was put on hold by administration on 3/16/2018. Since then 9 out of 57 (16%) patients were seen and were not bio-banked.
- 36 patients were seen at MCI (not satellite) and were seen prior to 3/16/2018. Of those only 5 were considered for bio-banking. 31 out of 57 (54%) were not considered for bio-banking.

Pareto Chart





Aim Statement

>50% of patient with pancreatic cancer seen at MCI between 10/1/2018 to 12/1/2018 will have their blood bio-banked





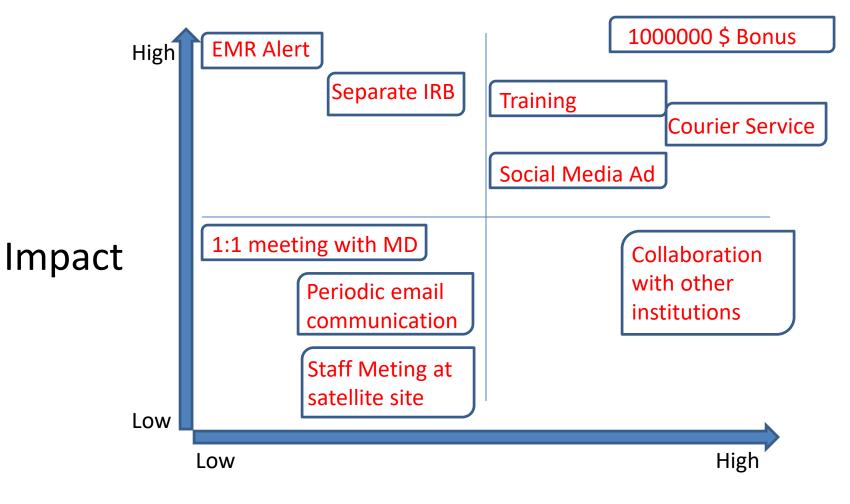
Measures

- Measure: The percentage of patients at MCI with pancreatic cancer (PC) who get their blood bio-banked
- Patient population: Patients with pancreatic cancer seen at MCI -Exclusions (if any): none
- Calculation methodology:
- ✓ # of considered patients/Patients with PC seen in MCI
- ✓ # of orders to collect blood/Patients with PC seen in MCI
- ✓ # of collected blood/patients with PC seen in MCI
- ✓ # of de-identified specimens/patients with PC seen in MCI
- √ # of stored/logged specimens/patients with PC seen in MCI

-Numerator & Denominator (if applicable)

- Data source: EMR/IT
- Data collection frequency: Weekly
- Data quality(any limitations):

Effort/Impact



Effort

Intervention

- EMR Alert
- Separate IRB and Consent submission
- Meeting with oncologists and nurses
- Courier utilization for satellite clinic
- Blood collection and de-identification clarification
- Training

Measures (10/24-11/15)

- Measure: The percentage of patients at MCI with pancreatic cancer (PC) who get their blood bio-banked 20/24 (83%)
- Patient population: Patients with pancreatic cancer seen at MCI: 24

 -Exclusions (if any): none
- Calculation methodology:
- ✓ # of considered patients/Patients with PC seen in MCI: 20/24 (83%)

- √ # of de-identified specimens/patients with PC seen in MCI: 20/24 (83%)
- √ # of stored/logged specimens/patients with PC seen in MCI: 20/24 (83%)

-Numerator & Denominator (if applicable)

- Data source: EMR/IT
- Data collection frequency: Once on 11/15/2018
- Data quality(any limitations): Excellent (Inaccurate coding)

Statistical Analysis

Out	come 1 Ou	utcome 2	Total
Group 1	4	53	57
Group 2	20	4	24
Total	24	57	81

Fisher's exact test

The two-tailed P value is less than 0.0001

The association between rows (groups) and columns (outcomes) is considered to be extremely statistically significant.