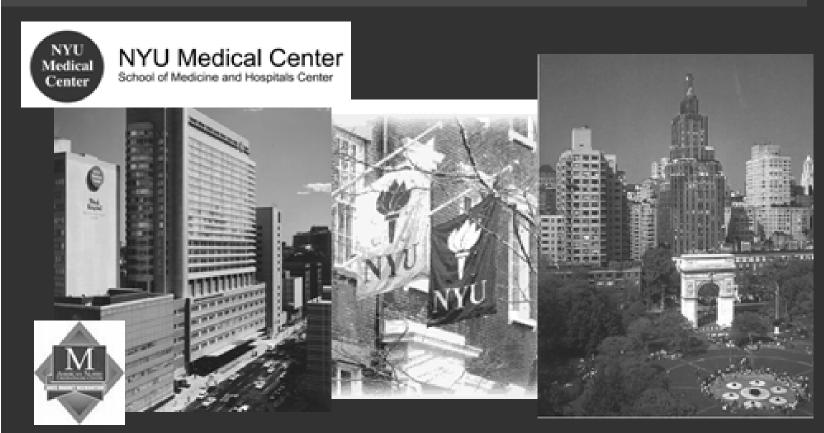
Greetings from...



New York University 🧳 College of Nursing

Developing a Quality Dashboard An Evidence Based Approach

PURPOSE/OBJECTIVES:

- To discuss the process that NYUHC Oncology Nursing Services used to develop and maintain a quality dashboard.
- 2. To define the variables that influence indicator selection, benchmarks, and the evaluation/interpretation of outcomes

The Quality Dashboard Needs To Be Aligned With Organizational and National Initiatives and Resources

World-Class Integration

Care, Discovery & Education

Advanced Care provides focus for Better Science

Cutting Edge Research enables <u>Better Care</u>



Immersion at the frontiers of medicine provides <u>Better Education</u>

VARIABLES THAT INFLUENCE SELECTION OF ONCOLOGY INDICATORS, BENCHMARKS AND OUTCOMES

- Vision, mission, strategic plan for the organization and oncology program
- Program Characteristics
- Treatment Patterns
- Patient Characteristics (Case Mix)



A Hematopoietic Stem Cell Transplant (HSCT) Clinical, Cellular, and Quality Dashboard: An Evidence Based Approach

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DEVELOPMENT OF AN ONCOLOGY QUALITY PLAN AND DASHBOARD STARTS WITH THE MISSION STATEMENT!

NYULMC HSCT PROGRAM MISSION STATEMENT

- To provide state of the art care to patients requiring autologous or allogeneic transplant.
 - To provide regionally a program that allows for selected transplant patients to receive some or all of their care as outpatients.
 - To integrate the basic and clinical research objectives of the Stem Cell Transplant Service with the Programs in the NYU Cancer Institute and NCI Cancer Center Grant.

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NYULMC HSCT PROGRAM MISSION STATEMENT (cont.)

- To provide state of the art care to patients requiring autologous or allogeneic transplant (cont.).
 - To establish and accrue patients to a robust clinical trials portfolio focused on important scientific issues in HSCT.
 - To broaden the pool of under-represented donors in the present national marrow donor program (NMDP) and other bone marrow registries.
 - To establish a focus on conducting transplants in under-served patient populations
 - To provide a state of the art teaching experience for fellows in the Division, interns and Residents in the School of Medicine, and medical ad nursing students



Review and Selection of Indicators, Benchmarks and Outcomes

- Agency (quality, regulatory) requirements
- Pay for performance and consumer health care directives
- Randomized clinical trial outcomes
- International and national research data bases
- Survey outcomes
- Best practices among centers
- Institutional data reporting

REVIEW METHODOLOGY: INDICATOR/BENCHMARK/OUTCOMES

- Priority level for indicators based on clinical relevance, agency requirements, pay for performance and consumer health care directives: 0 – 3 SCALE:
 - 0 = absent/anecdotal
 - 3 = highest priority/level of evidence (RCT outcomes and collective best practice experience).
- 2) Benchmarks: Relationship between process and outcomes: strength & quality of evidence
 - 0 = absent anecdotal
 - 3 = cause and effect (RCT outcomes: can generalize to NYULMC pt population.
- 4) Outcomes: Measurable with numerator and denominator
- 5) Ease of data collection (0 unavailable, 1 chart abstraction, 2 several electronic sources, 3 one electronic source).



NYULMC HSCT QUALITY MANAGEMENT DASHBOARD A SNAP SHOT VIEW

Clinical, Cellular, Quality Dashboard

A SNAPSHOT of NYULMC Oncology Services HPCT Program
Ouality Management Dashboard

INDICATORS	PRIORITY	BENCHMARK/	RELATIONSHIP: PROCESS	NUMERATOR/	AVAILABLIITY			
	LEVEL	THRESHOLD	AND OUTCOMES	DENOMINATOR	OFDATA			
0-3 SCALE: 0 = absent/anecdotal, 3 = highest priority/level of evidence (CT outcomes and collective best practice experience) Ease of data collection: 0 = data not available, 3 one electronic data source								
SNAPSHOT OF QUALITY MANAGEMENT								
Patient discussed in Interdisciplinary Conference	Priority 3	Level 3: 100%:	Level 1 -2	# of HPCT pts discussed/# of HPCT pts	Level 1 (Recorded at meeting and entered into ex cel).			
Clinical and Cell Therapy Laboratory Investigation /Summary	Priority 3	Level 3: Any deviation in established indicator benchmark /outcome	Level 2: RCA/FMEA/Other = safer organization	# of benchmark deviations/# of investigations	Level 1 but very high priority			
Patient Satisfaction	Priority 3	Press Ganey/HCAPS Benchmarks - varied	*Level 1 -2, Likelihood to recommend a global measure of satisfaction.	Need to determine	Level 3			
*There is a need to e timely care, adequac model.	x amine patier y of education	t satisfaction in dicator /information, emotion	rs relevant to HPCT standards that all support, out of pocket expense	at include but are not li	mited to: access to ed with IPOP			
Antibiotic start for neutropenic fever	Priority 3	Within 30 minutes of neutropenic fever.	Level 3	# of pts with neutropenic fever start an itibiotic > 30 minutes/# of pts with neutropenic fever	Level 2			



NYULMC HSCT QUALITY MANAGEMENT DASHBOARD A SNAP SHOT VIEW cont...

A SNAPSHOT of NYULMC Oncology Services HPCT Program

Quality Management Dashboard

INDICATORS	PRIORITY LEVEL	BENCHMARK/ THRESHOLD	RELATIONSHIP: PROCESS AND OUTCOMES	NUMERATOR/ DENOMINATOR	AVAILABLIITY OF DAT A				
0 – 3 SCALE: 0 = absent/anecdotal, 3 = highest priority/level of evidence (CT outcomes and collective best practice experience)									
Ease of data collection: 0 = data not available, 3 one electronic data source									
SNA PSHOT OF QUALITY MANAGEMENT cont.									
Clinical Trial	Level 3	Goal: 100% of	Level 3 Clinical, Safety,	% Eligible/%	Level 3: one				
Enrollment		eligible pts enrolled	Quality	Enrolled	electronic source				
Readmissions	Level 3	Benchmark below	Level 2 Clinical, Safety,	% unavoidable/	Level 3				
		those admissions	Quality	/% admitted					
		clearly defined as							
		avoidable							
Length of Stay	Level 3	Unit = complex	Level 2 Clinical, Safety,	% unavoidable/	Level 0 - 1				
		ICU/SDU, general	Quality	/% admitted					
		chemo, and general							
L	↓	medicine beds		D.					
SNAPSHOT OF CLINICAL MANAGEMENT									
Engraftment:	Level 3:	Level 3	Level 3: Highest Level of	# didn't reach	Level 2				
Absolute neutrophil		Range 11 days to >	Evidence	benchmark/#					
count 500 X 109/L		28 days NYULMC		transplanted					
for more than 3		Benchmark < 14							
consecutive days	J	CNAPCHOTOE	CELLULAD MANIA CEMEN						
SNAPSHOT OF CELLULAR MANAGEMENT									
CD 34+ Count	Level 3	3 million =	Level 2	Varied based on	Level 2				
		engraftment, less		patient					
		fungal and		population/treatment					
		improved OS							



PROGRAM CHARACTERISTICS INFLUENCE BENCHMARKS

- Size of HSCT unit and outpatient program
- Consistent standard of care for inpatient and outpatient adult and pediatric oncology program
- Projected growth
- Patterns of practice/Referral base
- Current financial requirements and projections
- Community driven donor program goals



Cancer Institute NYU Langone Medical Center





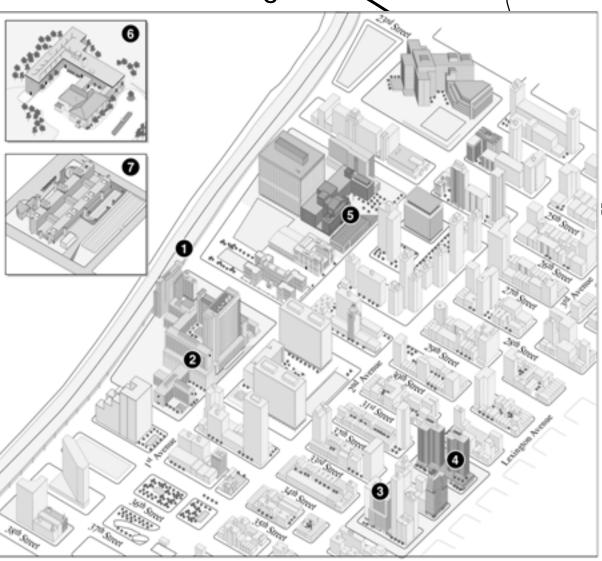












- Smilow Research Center 550 1st Ave.
- 2 Tisch Hospital 560 1st Ave.
- 3 Clinical Cancer Center 160 E. 34th St.
- 4 Hassenfeld Children's Center 160 East 32nd. St.
- Bellevue Hospital 462 1st. Ave.
- Nelson Institute Tuxedo, NY
- Woodhull Hospital, 760 Broadway, Brooklyn, NY 11205

THE TREATMENT PATTERNS THAT INFLUENCE BENCHMARKS

Types of conditioning

Myeloablative

Non-myeloablative (RIC)

Radiation based

Donor lymphocyte Infusions

Stem cell Source

Bone marrow

Peripheral blood stem cells

Umbilical Cord

Type of transplant

Autologous

Allogeneic

Matched Related

Matched Unrelated

Haploidentical

T Cell Depleted



PATIENT CHARACTERISTICS INFLUENCING BENCHMARKS

- Disease
- Disease status
- Previous therapies
- Co-morbidities
- Functional Status
- Age
- Travel time to hospital
- Availability of a caregiver 24 hours
- Competency and commitment of pt and caregivers
- Psychological, social, financial and spiritual status

DISCUSSION

- An HSCT quality dashboard is used to measure the quality, safety, effectiveness, and efficiency of patient care and to continuously identify opportunities for improvement.
- Identifying HSCT indicators with meaningful outcomes and benchmarks is essential to determine quality of care and provides direction for program management and



Limitations

- Evidence based consensus regarding how variations in characteristics of practice setting, patient population, and treatment selection influence HSCT benchmarks and outcomes is lacking.
- A comprehensive list of HSCT indicators, benchmarks and outcomes specific to variations in practice settings, patient population and treatments is lacking and is an essential component of ensuring that delivery of HSCT care ".... is built around the core need for health care to be: safe, effective, patient-centered, timely, efficient, and equitable" (Institute of Medicine, 2001, p. 3).

RECOMMENDATIONS COLLABORATION IS KEY

- Association of Pediatric Hematology Oncology Nurses (APHON)
- Center for International Bone Marrow Transplant Registry (CIBMTR)
- Foundation for Accreditation of Cellular Therapies (FACT),
- NDNQI
- Oncology Nursing Society (ONS) [BMT SIG group],
- United Health Consortium (UHC)



Next Steps: Network with these agencies to address limitations:

 Benchmarks that consider: Program Characteristics; Treatment Patterns; Patient Characteristics (Case Mix)

Comments, Questions? THANK YOU!



Abbreviations

- Association of Pediatric Hematology Oncology Nurses (APHON)
- Foundation for Accreditation of Cellular Therapy (FACT)
- Hematopoietic Stem Cell Transplant (HSCT)
- Immune Competence (IC)
- Inpatient/Outpatient (IPOP)
- Length of stay (LOS)
- Matched Unrelated Donors (MUDs)

- Myeloablative (MA)
- New York University Langone Medical Center (NYULMC)
- Overall Survival (OS)
- Quality of Life (QOL)
- Reduced intensity conditioning non myeloablative (RIC)
- Regimen related toxicity (RRT)
- Special Interest group (SIG)
- Standard of Care (SOC)
- Total Body Irradiation (TBI)