TRANSPLANT EDUCATION FOR PATIENTS AND FAMILIES: AN ORGANIZATIONAL-WIDE PROCESS

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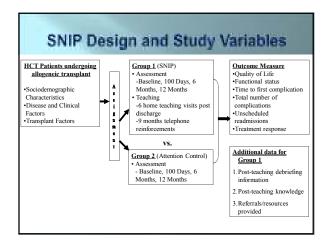


History of COH Discharge Teaching Research

- Quality of Life studies with HCT pts began at City of Hope in 1991 for Tool validation
- Retrospective Chart Review in 2000 of 100
 HCT patients looking at readmission patterns.
 (published 2005 in ONF)
- Pilot study of 10 patients with an educational intervention 2002-2003
- > Caregiver research 2003-2005
- Five Year NCI-Funded Grant (SNIP) for total of 282 patients began in 2005-2010

Preliminary Studies... Development of QOL measurement and resulting QOL Model Phosical Well Bring and Structures Function Activities Visual Disturbances Characts Recurrent Colds Infertility Caping with Chronic CHED National Particular Parti

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Intervention Highlights

Intervention was <u>tailored</u>, included <u>family</u> and friends, included in-depth <u>psychosocial</u> history/strengths, emphasized patient's and hospitals <u>resources</u> for support and referrals, and was <u>relationship-based</u> for one year follow-up.

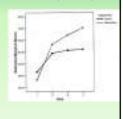
What were the outcomes?





Continued Results

- > High Satisfaction Scores
- Mortality: 16% (intervention) versus 25% (control)
- > Higher functional Status
- > SF-36 Physical Functioning



How To Package and Wrap
Housewide?

Identification of Five Roles of Nurses Involved in the Trajectory of Care

- > Nurse Coordinators
- > Advanced Practice Professionals
- > Case Managers
- > Inpatient Transplant Unit
- Change
- > Outpatient Transplant Unit

Five Roles of Nurses Involved in the Trajectory of Care to Build Capacity

- > Nurse Coordinators
- > Advanced Practice Professionals



- > Case Managers
- > Inpatient Transplant Unit
- > Outpatient Transplant Unit

Pre-Implementation Nurse Coordinators Role

STABLE ROLE ELEMENTS

New patient screening and scheduling Pre-admission Care Coordination Protocol Management



ROLE ELEMENTS NEEDING CHANGE

- Patient and Family
- Education
- Varied between nurse
 Hand-off at the time of admission inconsistent
- No continued followup after admission

Nurse Coordinators Role Change Implementation

- $1. \ {\bf Established} \ {\bf a} \ {\bf Baseline} \ {\bf level} \ {\bf of} \ {\bf Knowledge}$
 - > Initiated monthly articles on Hematology
- 2. Created a Standard Educational template (next slide) as a part of an entire teaching trajectory
- 3. Initiation of an ongoing class taught by transplant coordinators on "Preparing for Transplant"
 - > Taught each day for patients and families
- 4. Increased the length of relationship with the patient and family
 - > Throughout transplant until 100 days
- 5. Assessed for psychosocial issues
 - ≻ Referrals to social work, psychiatry



Nurse Coordinators Role "Topics to Teach"

Treatment
Plan/work-up
schedule including
discussion of
disease and rational
for regimen.

Protocol/transplant
consent with

Protocol/transplant consent with expected side effects
 3. Educational tools provided (Blood and Marrow Stem Cell Transplant Binder)
 4. Teaching on countdown, side effects, engraftment, and discharge criteria.

• Caregiver contract and caregiver education.

• Follow-up Phone call after discharge

• Post transplant overview, resources, and long-term followup.

Nurse Coordinators Role Change Implementation Measurement

- Established a Baseline Level of Knowledge
 - Online Survey to measure competency in 16 areas : 61% were proficient with 39% beginner
- > Created a Standard Educational template
 - > Teaching was Observed and feedback given per Rubric Tool x 4 areas: 88% mean score on performance
 - > Performance Evaluation includes teaching competent as a measurement
- > Other aspects of role not affected by increasing teaching
 - > Transplant Essential data requirements are captured (TED):

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Pre-Implementation APP Role

STABLE ROLE **ELEMENTS**

APP Staff of 20: 4 PAs and 16 NPs with a focus on both Inpt and Outpt Hem/transplant coverage

Five teams of MDs with approximately

3-4 APPs on each

ROLE ELEMENTS NEEDING CHANGE

Patient and Family Education for Discharge varied between APPs

with Long Term followup information sporadic

APPs Role Change Implementation Measurement

- Established a Baseline Level of Knowledge
- Created a Standard of Practice for discharge teaching for all
- Instituted a Yearly test to establish baseline performance for
- Made long-term follow-up 6mo, 12mo and 2 year printouts easily assessable to staff
- Started a bi-monthly class with social work in the inpatient setting for family and patient about home transition.
- > Done twice a month
- Instituted a "Day 10 Huddle" on the inpatient unit
 - > With social work and case management to discuss discharge

Advanced Practice Professional Role "Topics to Teach"

Trajectory teaching
 Regimen related side effect management
 Day 10 huddle with social worker, case manager on barriers to discharge

line care

- · Knowledge of
- Symptoms to report and why
 Sexual issues
- Sexual issues
 Depression risk
 Caregiver attends psychosocial class
- - - Medication
 - Infection precautions, Discharge meds Pets/home,
 - clinic routine for follow-up
 psychosocial topics
 Review
- reconciliation
 Review of content

• Next follow-up

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Advanced Practice Professional Role Change Implementation Measurement

- > Measurement of weekly educational episodes after implementation:
 - > General teaching < 30 minutes: 8 episodes
 - > General teaching > 30 minutes: 3 episodes
 - > Discharge teaching < 30 minutes 7 episodes
 - > Discharge teaching > 30 minutes 2 episodes



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> Outpatient Transplant Unit



Pre-Implementation Case Manager Role

STABLE ROLE **ELEMENTS**

Case Management staff with varying transplant knowledge

Role of consisting of pharmacy authorizations equipment coordination securing housing Assignment by MD teams



ROLE ELEMENTS NEEDING CHANGE

- No follow-up of patients after discharge from hospital by case manager
- No discharge teaching done by the case manager
- Little communication with the inpatient service except at time of discharge



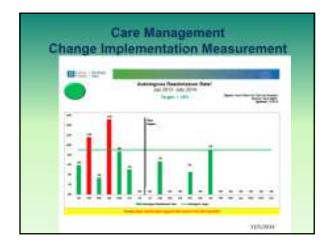
Case Management Role Change Implementation

- > Established a Baseline Level of Knowledge
 - > Two-session "Educational topics" intervention on trajectory expectations for their role
- > Instituted comprehensive Standard of Practice
 - > With expected professional behaviors per a timeline reflecting the regulatory guidelines of their role
- > Discussion of expansion of their nursing role to include
 - > Early discharge planning assessment,
 - > With early identification of potential barriers, and educational needs
 - > Weekly progress notes,
 - > Family conferences, and
 - > Follow-up phone calls.



| Within 24-48 | bourn after | Admission | Widthin 72 hours | bourn after | Admission | Washington | Admission | Washington | Admission | Washington | Washington





Identification of Five Roles of Nurses Involved in the Trajectory of Care Nurse Coordinators Advanced Practice Professionals Case Managers Inpatient Transplant Unit Outpatient Transplant Unit

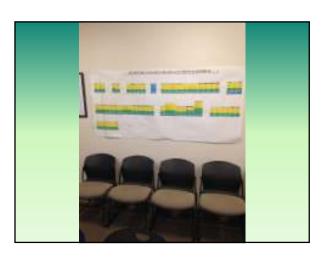
Pre-Implementation Inpatient Staff RN Role STABLE ROLE ROLE ELEMENTS **ELEMENTS** NEEDING CHANGE Staff of 180 for two 36-bed Some variation with discharge teaching Autologous Not clear distinct roles of discharge care between Allogeneic the case manager, Mix of both seasoned staff Midlevel, and staff nurse and new grads Some variation with discharge teaching Not clear distinct roles of discharge care between the case manager, Midlevel, and staff nurse

Inpatient Change Implementation

- > Established a baseline expectation of teaching
 - > Discussed at several staff meetings about the comprehensive approach to discharge teaching
 - > Created 4 teaching videos for staff to access outlining the expected time from admission to discharge and covering both content and expected behaviors
- > Created an interdisciplinary carepath as a poster of the trajectory of teaching behaviors displayed in the conference rooms
 - > Outlined roles of all health care professionals who see inpatients in the inpatient transplant admission
 - > Created accompanying flow sheets for charting the teaching behaviors

Inpatient RN Role "Topics to Teach"

- VAD care*
 Neutropenia and infection precautions
 Fatigue conservation
 Reportable symptoms
 Psychosocial topics of depression, sexuality, caregiver fatigue, role changes, family disruption, help for children
 Pets
 Pets
- Pets
 Clinic routine
- Discharge medications
 Formal discharge instructions
 Follow-up appointment through appointment through Medication/ DME authorization Case Management
 Village coordination reconciliation, finalize the prescriptions Nurse Practitioners
 Long-term survivorship teaching*



Inpatient Change Implementation Measurement None= EMR has arrived

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Pre-Implementation Outpatient Transplant Staff RN Role

STABLE ROLE ELEMENTS

Outpatient Day Hospital 10 beds New staff



ROLE ELEMENTS NEEDING CHANGE

Multidisciplinary Team to break down tasks of needed information for patients

- 1. Research/Quality protocol
- 2. Nurse Education
- 3. Policy and Procedure support
- 4. Day Hospital Forms
- 5. Patient and Caregiver Education

Outpatient Transplant Staff Change Implementation

- Quality Data on
 - > Clinical, operational, quality
- > Communication with MDs
 - > Inclusion and discharge criteria
- > Nurse Education
- > Both clinical and educational competency
- > Supportive Documentation
- > Forms including algorithms and flowsheets
- > Patient and Family Education
- > Off hours problems solving
- Flowsheet for caregiver for symptom management

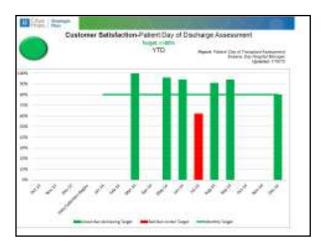
First week of stay *Directation to transplant schedules *Contention to transplant schedules *Contention to transplant schedules *Contention to transplant schedules *Contention to support promote of the content schedules *Contention to support schedules *Contention to support

Symptoms Vis No Afebrile Pain score less that "4" Alert, and orientated x 3 BP, IRR and RR WNL Clear Lungs Heart rate regular rate and rhythm Able to drink without vomitting WHO Mucositis Grading Score less than 3 Less than 3 episodes of diarrhea in 2k hours Last check of chem? Electrolytes WNL or treated Urine output within the lest 3 hours PU Caregiver able to verbalize symptoms since last visit

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Outpatient Change Implementation Measurement

- > 30-day and 100 day treatment-related mortality,
- > Infections, incidence and severity
- > GI-related complications and symptoms
- > Admissions within 100 days
- > Length of stay in the day hospital
- > Engraftment data
- Evidence of DVT
- > Readmissions within 100 days
- > Reasons for readmissions
- > Evidence of charted patient and family education,
- > Patient and caregiver preparedness, and
- > Number of ETC visits
- Patient satisfaction with financial support, lodging, transportation, quality of life, obtaining medications and the outpatient experience.



Summary

- Change is challenging for an organizational system
- > A Consistent approach is best
- > Needs CNO backing
- > Build in sustainers of change
 - > Managers
 - > Educators
- > Clear role expectations
- > Measure success to support change
- Be flexible to accommodate how change needs to occur in various settings.

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