

In 1993 FHCRC transplanted around 400 patients/year

- Average outpatient census of 60-80
- Average inpatient census of 75
- We staffed 11 RNs in Clinic/weekday

Today FHCRC/SCCA transplants around 450 patients/year

- Average outpatient census of 180
- Average inpatient census of 40
- We staff 25 RNs in Clinic/weekday



Nursing Care in the Ambulatory Setting

Early 1990's

- · Admitted for all conditioning
- Discharged when:
 - ANC \geq 500

 - Rarely requiring home infusions

- Admitted for clinical symptoms not able to be treated, or therapies not able to be given effectively on an outpatient basis
- Eating ≥ 1000 cals/day Discharged when symptoms and therapies can be handled on an outpatient basis

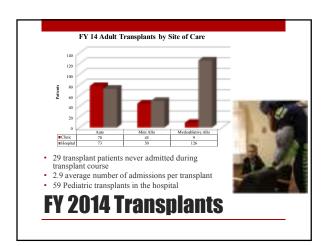
Ambulatory Criteria



- Autologous transplant moved to the outpatient clinic (1993)
- Conditioning for allogeneic transplant moved to the outpatient clinic (late 1990's)
- Infusion for most sources of stem cells moved to outpatient clinic
- Discharge parameters became more liberal
- Revolutionary PO antiemetics
- User-friendly home infusion pumps



What changed?



- Neutropenic (ANC<500) patients seen daily
- Caregiver living with patient (adequate skills/education documented by RN)
- · Clinic visit mandatory the day after hospital discharge
- Every patient has at least 1 visit/week with attending physician
- Most patients have 2-3 visits/week post transplant
- Platelet count supportable at $\geq 10 \mbox{K}$ with transfusions no more than 2x/day

Clinic Visit Guidelines

Planned

- Conditioning Chemotherapy schedule requiring RN care when Infusion Suite closed
- Special isolation required (radiotherapy)
- URD cells arriving when clinic closed
- Cord Blood infusions (stunned
- Comorbidities
- Caregiver Issues
- Insurance Requirement
- Research Protocol Requirement

Unplanned

- Severe regimen related toxicities
- Pain requiring IV pain medications
 Inability to take PO meds
- Temperature > 38.3 C or > 38 sustained for one hour & neutropenia
- Altered mental status
- Severe deconditioning
- Postural hypotension not responding to fluids
 Severe GVHD

Admissions

Challenges

- Burden of care transferred to caregiver
- · Can be exhausting for patients and caregivers
- · Not a "captive audience"
- Physical location (within 30 minutes of clinic)
- · Most inpatient admissions are unplanned, same-day
- · Increased outpatient acuity

Advantages

- · Patient Satisfaction
- Cost/ decreased LOS
- · Increase hospital capacity
- · Decreased nosocomial infections
- · Increased physical activity



Outpatient Care

Consistent Support

Present most of the time, breaks less than 3 hours

- · During conditioning
- 1st 1-2 weeks after initial discharge
- Requiring <u>3</u> different IV infusions/24 hrs
- Neutropenia (ANC ≤ 500)
- · Altered mental status
- · Weakness/limited mobility
- Sliding scale insulin

Caregiver Responsibilities

- · Interdisciplinary team care model
- Transplant Triage Nursing (24/7/365)
- · Hospital admit direct to BMT Unit
- · Infusion services available in Clinic
 - 7:30am-10pm (weekdays)
 - 7:30am-5pm (weekends/holidays)
 - Afterhours infusion services available for Outpatients on Inpatient units
- Transition Nursing based in clinic
- Chemo and TBI conditioning in Clinic
- ECP and PUVA available in Clinic
- Transplant specialized consulting providers (GI, ID, Psych) in Clinic





Support for Ambulatory Model

- · Volunteer Services
- Patient Housing
- Shuttle Service





Support for Ambulatory Model (contd.)

Daily rounds with all team members:

- Responsible for 1 team (12-20 patients/team)
 - 1 Advance practice provider
 - 1 RN
 - 1 Scheduler
 - Child Life (Pediatrics)
- Responsible for 3 teams (36-60 patients)
- Attending MDs
- Social Worker
- Nutritionist
- · Clinical Pharmacist



Interdisciplinary Transplant Teams

- Patient/Caregiver Assessment
- Care Coordination
- Handoff Communication
- Psych/social support
- Patient Triage
- Patient/Caregiver Teaching



Clinic Nursing Responsibilities

- Physical
- Emotional
- Compliance
- Learning style
- · Family/caregiver



Assessment

- Incorporate medical plan into patient's life
- Liaison between complex health care system and patient
- Transition Nursing coordinates care between hospital and clinic

Care Coordination



Patient	This Week: (See kardex for current details of one oing problems)	Friday 2/13	Saturday 2/14	Sunday 2/15	Monday 2/16
Doe, Janke "Jane" Hospital D# Age; 47 yo Dis Malibja myeloma Status, sje colketion attempt Collection: COA off VTD- PACK (211); VP16 Transplant: 1137, tandem allo Precasifams: standard	Mild de 18 Extensiv skelent involvement se' multiple 76 ft. XHT to it sauram RVD sé cycles. DF-PACH E cycles VTD-PACH E 1 (2) since 18 Genes de 2013), off mode since 2013 – 18 Genes de 2013), off mode since 2013 – colley oldescel 2 Fortiv 6 w VDD-PACH. Will select the collection of 175, CDI4 14 (sas 15 on 12-6), collected 2 60-107 s. CDI4 14 (sas 15 on 12-6), collected 2 60-107 s. CDI4 2013 – 2013 – 2014 on 18 collection on 175, CDI4 10 collection attempt. Sart VF6 cleme mobilization 21 DF Com Into pp. 211.	D/C hospital clinic Labs GCSF	GCSF Labs	GCSF	Dressing change
Smith, Michael "Jue" Hospital ID # Age: 55 yo DE: NHL DLEICL Status: conditioning Collection: COA - R/GDP Transplant: Bandeff Threshold: standard Precautions: standard Interpreter: Korean for wife @ conference, teaching	Background -NR D.R.E. (T. cell. Beelt) from followlar dx R2011. Rec'll E-CIDP sk cycle (113-2:4) w' CR. althreed. 714 dx or PIFCT w' spice (113-2:4) w' CR. althreed. 714 dx or PIFCT w' spice (112-2) (126) involvement. R-CIDP s2 cycle (1129, 1226) involvement. R-CIDP s2 cycle (1	Labs RN clinic Thiotepa	Labs RN Clinic Thiotepa	Labs RN clinic REST	Cells today! Team clinic Labs Upcoming:



- Phone Triage by Transplant RN available 24 hours/day
 - · In Person Triage by Transplant Advance Practice Provider and RN available 24 hours/day
- · Access to RNs on Telephone essential for safety and patient satisfaction
- · Standards for call-back parameters



Telephone Triage

- Essential for patient safety in ambulatory setting
- RNs spend most of their time in Patient Teaching
- Consider classes
 - Medication

 - Chemotherapy
 Supportive Care/Prophylactic

 - Treatment therapy
 IV medications/hydration
 Injections: Anticoagulants/insulin
 - Pre/post Procedure
 - Managing care at homeGVHD



Patient Teaching

Transplant Transition Clinic

· Transition to primary care

Long Term Follow Up Service

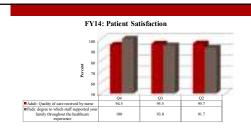
- Telemedicine/tele nurse
- Follows and consults on all patients transplanted at SCCA/FHCRC for life (currently 5,436 patients)

Survivorship Clinic





Longevity & Survivorship



- I felt that no where else could take care of me like this group. All professional and caring. I felt loved.
 I am very fortunate and grateful to be treated at the clinic. The team has taken and continues to take the best care of fine.
 Your muses show excellent breadth of Knowledge, and huge compassion and understanding for my care.
 I have been to a lot of frospitals in the last 17 years, and none compare to the excellent musting care at SCCA.
 Thank you for the WORLD CLASS treatment I have received from all transplant clinic staff!

- **Patient Satisfaction**

"Nurses are my secret weapons" – ED Thomas, MD



Nursing Contribution

- Advocate one that supports or promotes the interests of another
- Pioneers goes before, as into the wilderness, preparing the way for others to follow
- Daring willing to take on or look for risks.
- Tenacity persistent determination



Characteristics of Transplant Nurses: Partnering with our Patients and their Caregivers

