

Foot Care pilot project initiated at Abbotsford Regional Hospital (ARH)

When: Oct 2013

Patient Population:

Haemodialysis (HD) and Peritoneal dialysis (PD)

Goal:

amputations
hospitalizations
mortality





ACCOMPLISHMENTS TO DATE

Developed and implemented an R.N. foot assessment screening tool

- Implemented:
 - Regular foot assessments:

"Socks Off Week", every 6 weeks

- Regular podiatric intervention:
 - FREE weekly clinics (most cannot afford)
 - Held on dialysis unit to accommodate pts with transportation issues





60 SECOND NEPHROLOGY / 6 WEEK FOOT SCREEN



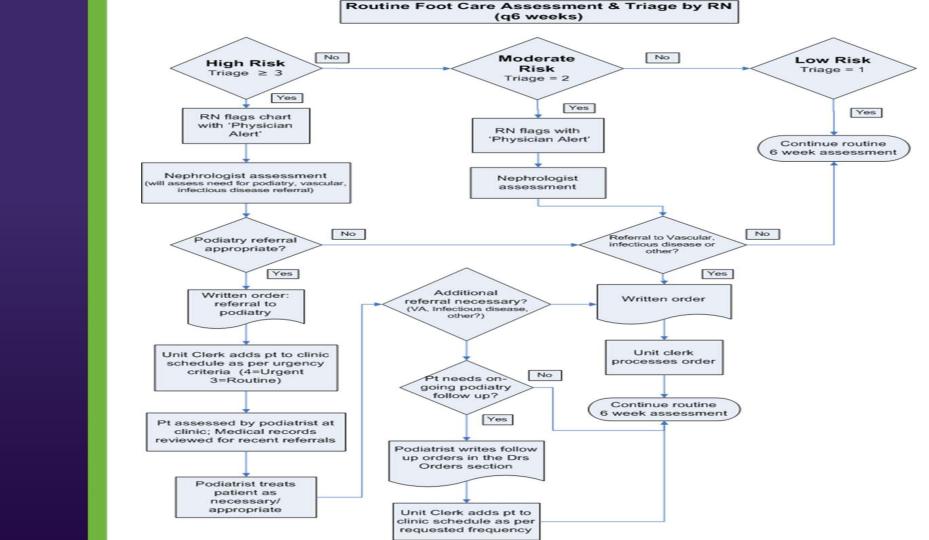
JAS1	

NUAS105768A NEW: Apr 9/14

Page: 1 of 2

4 = Urgent podiatry referral			
	SCORE	SCORE	Nurse to Check if Appropriate
			Recommended Orders
0 = No Diabetes 1 = Diabetes			☐ A1C greater than 7 - Optimize Glycemic Control
0 = No Peripheral Vascular Disease 1 = Peripheral Vascular Disease			
0 = No Previous Amputation 1 = Known Previous Amputation			1 = ☐ High Risk patient, monitor foot every 6 weeks
1. SKIN 0 = Intact and healthy 1 = Dry with fungus or light callus 3 = Heavy Callus Build-up 4 = Open ulceration/history of previous ulcer	L Foot	R Foot	Recommended Orders 3 = Podiatry referral - routine 4 = Urgent Podiatry referral
4 = Open dicertainmistory of previous dicer 2. TEMPERATURE 0 = Warm to touch 1 = Hot to touch 2 = Cold to Touch			Sasess for possible infection, inform MD ASAP for additional orders Referral to vascular surgeon
3. ERYTHEMA 0 = No Redness 2 = Redness			2 = ☐ Referral to vascular surgeon
4. NAILS 0 = Well-kept 3 = Unkept and ragged, thick 4 = Bacterial infection and/or ingrown toenails			3 = Podiatry referral - routine 4 = Urgent Podiatry referral
5. DEFORMITY 0 = No deformity 1 = Mild or major deformity			1= ☐ High risk for skin breakdown, monitor Q 6 weeks
6. DORSALIS PEDAL PULSES 0 = Present 2 = Absent			2 = ☐ Referral to vascular surgeon
7. FOOTWEAR 0 = Appropriate 1 = Inappropriate			1 = Discuss with pt appropriate footwear
8. SENSATION 1 = Are your feet ever numb? 1 = Do they ever tingle?			
Comments:			
RN Print Name:	RN Signatu	re:	Date:





Results – Year 1

ARH HD+PD	Pre Intervention (N=190)	Post Intervention (N=183)
Amputation rate (# patients with amp event / total pts)	5 (2.6%)	3 (1.6%)
Average Length of Stay (Amputation surgery)	87.5	32.8
Average Length of Stay (LL Infection + PVD)	18.6	31.1
Total Hospital Days (Amp, LL Infection, PVD)	704	477
Hospital Days/person (Amp, LL Infection, PVD	3.7	2.6



Preliminary Results – Year 1+2

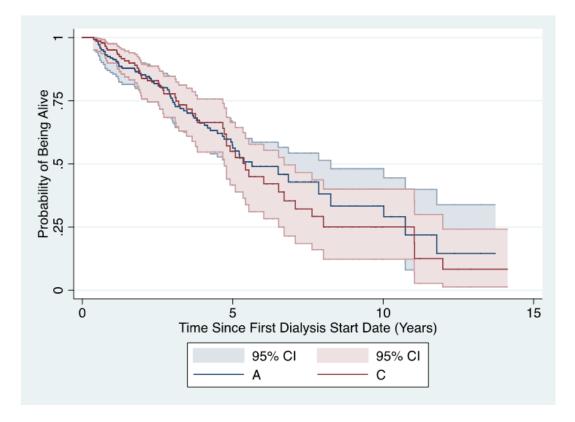
ARH HD+PD	Pre Intervention (N=248)	Post Intervention (N=278)
Dialysis Vintage > 3 years n (%)	91 (37%)	125 (45%)
Amputation rate (# patients with amp event / total pts)	8 (3.2%)	14 (5.0%)
Average Length of Stay (Amputation surgery)	106.1	45.0
Mean Days spent in hospital due to amputations - per year on dialysis (adjusted for time on dialysis)	3.3	3.1
Average Length of Stay (LL Infection + PVD)	21.3	25.9

Year 1 Mortality

	ARH Pre Intervention	RCH + SMH Post	ARH Post Intervention
N=	190	600	183
Event data end date	30-Nov-13	30-Nov-14	
# Patients Deceased on or before event data end date	34	105	26
Rate	17.9%	17.5%	14.2%



<u>Kaplan-Meier Survival Probabilities by Time Since First Dialysis Start Date and Group, A vs. C</u> (p-value = 0.65, log rank test)



A= Intervention

C=Pre intervention





ARH HD SCREENING ASSESSMENTS Review of Patients with Ulcer

	Sep 2014 – Aug 2015	Sep 2015 – Aug 2016
Total Screenings	654	769
# Pts with Foot Ulcer	23	21



Status in 2015/16

Recovered = 1

(Ulcer status unknown)

Home HD = 1 (Ulcer status unknown)

Deceased =10 (43.5%)

(7 seen by podiatrist; 1 had previous amputations)

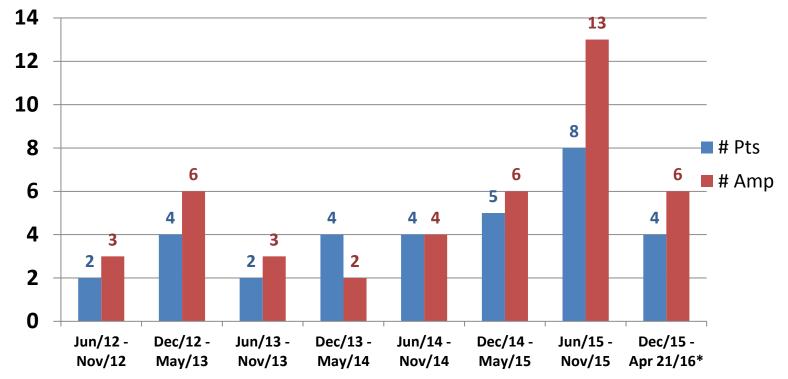
On HD in 2015/16:

Ulcer resolved = 4

Cont'd f/u for ulcer = 7

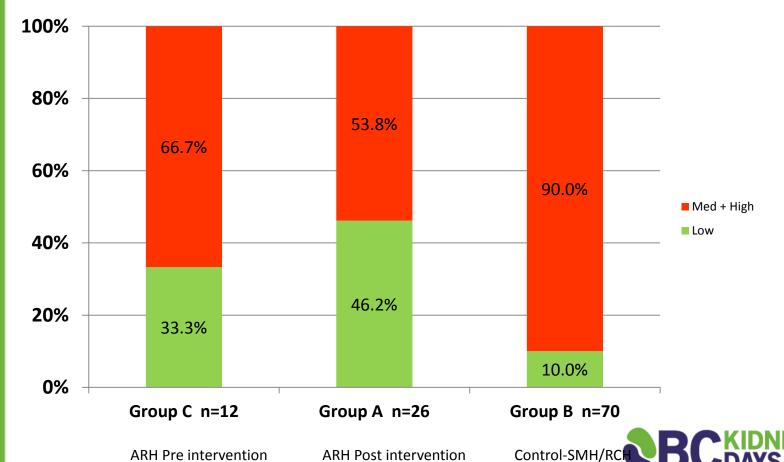


of ARH patients with an Amputation





Major vs. Minor Amputations (Year 1+2)





Less than optimal results. Why?

- Detection too late?
- Small sample size; less statistical significance?
- Dialysis vintage?
- Break in protocol (April-Sept 2015-podiatry 2 x's per month (vs. weekly)
- Acuity in hospital too great to make a difference?
- Missed foot assessments? (only 80% average. Needs to be 100%)



Questions?

