# Posttransplant and Quality of Life Research

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# **Translating Research Into Practice**

**Step 1**—Establish scientific basis for the intervention

**Step 2—Design and test the intervention** 

Address a need Demonstrate efficacy Show cost-effectiveness

**Step 3—Disseminate Findings** 

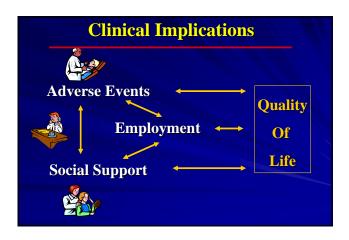
**Step 4—Incorporate in Practice** 

Chang, C.F., Winsett, R.P., Gaber, A.O., & Hathaway, D.K., (2004). Cost effectiveness of post-transplantation quality of life intervention among kidney recipients. Clinical Transplantation, 18, 407-14.

# **Step 1: Predictors of Post Transplant Quality of Life**

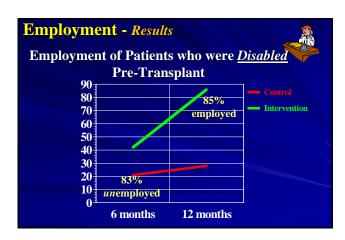
**Total Sickness Impact Profile** 

partial R <sup>2</sup>	model R <sup>2</sup>
.14	.14
.16	.30
.12	.42
	.14 .16



Step 2: Design QoL Interventions		
Decrease Adverse Events	Increase Employment	Increase Social Support
Patient Empowerment Multi-media Teaching Dedicated Education	Transplant Center-based Voc. Rehab Program Employment Specialist	Multidisciplinary Social Assessment Social Network Mapping Peer Support
Specialists	Control, n=27 Intervention, n=94,	68

Hospitalization for		
infections decreased nearly 50%	Control	Intervention
nearly 5070	<u>n (%)</u>	<u>n (%)</u>
Alterations in therapy	0	7 (6.5)
Oral Antibiotic therapy	18 (46.1)	67 (62.5)
IV Antibiotic therapy	1 (2.5)	0
Hospitalization <24hrs	0	6 (5.6)
Hospitalization >24hrs	20 (51.2)	26 (24.2)



ocial Support – Re	esults	
Support Type	pre	12 mos
Concrete	58.4	72.7 *
Emotional	65.4	69.4
Informational	72.7	61.5
Total SNM Score	562.4	681.7 *
* p < 0.05		

	Control	Intervention
Costs/Patient	(n=27)	(n=72/46)
Direct	•	2,987
Indirect	2,202	993
Medical	40,144	29,539
Total	\$42,346	\$33,519

## Step 3: Broadly Disseminate Findings

#### **Presentations**—

- clinical transplant nursing—over 12
- clinical transplant professionals—over 15
- academic nursing—over 5
- invited—over 20 (nurse-centric and multi-professional, local staff to inter-national organizations to US Congress)

#### Publications—

• Over 15 publications in transplant specific clinical and scientific interdisciplinary journals

# **Step 4: Incorporate Into Practice**

#### **Status Today**

Quality of life outcomes a growing focus of concern 15-year program of research no longer funded Transplant program merged and moved Significant turn-over and expansion of staff Status of translation into practice.....

## **Concluding Observation**

Translating research into practice takes more than:

Addressing a need Interventional efficacy Cost effectiveness Dissemination of findings

What is it?

# Customer-Centric Innovations lessons learned from business "Customer R&D focuses on developing better ways of communicating value propositions and delivering complete, satisfying experiences to real customers." "Simply put, customer R&D propels the innovation efforts away from headquarters and the traditional R& D lab out to those closest to the customer." Selden & MacMillan, Manage Customer-Centric Innovation Systematically. HBR April 2006, 84(4):108-116.



Phase 3a	Phase 2a	Phase 1	Phase 2b	Phase 3b
Stretch Capabilities	Extend Capabilities	Current Segments	Extend Segments	Stretch Segments
Identify new capabilities hat attend to other needs of segments, subsegments or halos	Extend capabilities to attend to additional needs of core segment	Identify and develop deep under- standing of needs of core customers	Identify halo segments similar to core that can be similarly served	Identify new segments unrelated to core where capabilities can be deployed

### **How to Kill an Innovation**

Spend without reward—keep pouring funds into traditional R&D although markets don't buy it. Leaders make excuses like, "We're in a tough industry".

Make R&D an entitlement—funding decisions are made on the basis of last year's budget. R&D staff view funds as an entitlement rather than as an investment focused on customers expectations.

Assume people in the field know nothing—R&D is a centralized function run by people with technical backgrounds. "God forbid," a CEO might think, "we put people with real hands-on experience in charge of product development—they would never understand the complexities of ...."

Selden & MacMillan, HBR April 2006, 84(4):108-116.

#### **How to Kill an Innovation**

Put marketing, finance and R&D on different planetsthese functions rarely communicate (except to consider budget cuts). This ensures no one pays attention to the customers needs from the company as a whole.

Detach marketing from the customers—marketing just feeds propaganda to customers. When airline passengers lack a meal or pillow, marketing can only report customer dissatisfaction.

Don't rock the boat—organizing business around customers is too complicated. But given the average growth of business, shaking up silo leaders wouldn't be such a bad thing for customers, employees, and shareholders.

