LEVEL AND PREDICTORS OF SELF-CARE BEHAVIORS (SCB) AMONG EDUCATED AND UN-EDUCATED HEART FAILURE (HF) PATIENTS IN KARACHI, PAKISTAN

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Background

Cardiovascular diseases cause:

- 16.7 million deaths per year, world wide
- 80% in low income developing countries
- 22% proportionate mortality in Pakistan

(WHO, 2005)

Cont'd....

Heart Failure

- A progressively worsening clinical syndrome, with decline in the cardiac Function
- A result of normal ageing process and final end point of all cardiac disorders
- Poor QOL and increase health care utilization
- "Self-care" a recommendation of AHA

(Klimm et al., 2012)

Self Care Behaviors (SCB)

Activities that individuals initiate and perform on their own, in the interest of maintaining life, health, continuing personal development, and well-being

(Reigel & Carlson, 2002)

Cont'd...

Self-care Behaviors (SCB)

Self maintenance

Medication
Fluid restriction
Diet regimen
Weight monitoring
Exercise

Self management

Symptom monitoring
Symptom management
Proactive help seeking

SCB in order of their adherence rates

- Medication adherence
- Fluid restriction
- Help seeking
- Exercise
- Following diet regimen
- Symptom/ weight monitoring and interpretation

(Artanian, et al., 2009; Kato et al., 2009...)

Factors affecting SCB

- Age
- Gender
- Experience of illness
- Literacy level of the patients
- Burden of comorbidity
- Marital status
- Social support
- Income
- Shared decision making by the patient and physician

- Health literacy is better among educated patients.
- Educated patients perform better selfmanagement of their disease as compared to their uneducated counterparts.
- Educated patients had better comunication with their physicians

- Education appeared to be a key predictor of self care among HF patients.
- Self care skills can only be acquired by the educated patients?
- what could be the mechanism of understanding of self-care among literacy and numeracy challenged population

Purpose

The study aimed to determine the level of self-care among educated and uneducated HF patients in Karachi, Pakistan.

Research Questions

- What id the level of self-care behaviors (SCB) among educated and uneducated HF patients in karachi, Pakistan?
- What are the factors affecting the SCB of the educated and uneducated HF patients, in Karachi, Pakistan?

METHODOLOGY

Study Design

The study was cross sectional Analytical.

Sample

230 HF patients for quantitative survey

Study Settings

4 private tertiary care hospitals of Karachi

Recruitment of Study participants

Inclusion Criteria

- Left ventricle ejection fraction (LVEF) of <45%</p>
- Physician written diagnosis of HF
- Patient should have had at least one prior visit related to HF
- Patient should be a resident of Karachi
- Should not have any cognitive disability
- Could give informed consent
- Did not suffer from any untreated malignancy.
- Able to speak and understand Urdu language.

Ethical Considerations

- Approval was taken from AKUH ERC and research settings.
- Permission of the tool, used in the study from the original author was sought.
- Informed consent was obtained from each participant.

Data Collection

- Modified version of the European Heart Failure
 Self-care behavior questionnaire (EHFScB_9)
 - Orem Self-care Model
 - 9- item assessment of SCB, on a likert scale
 - Lower the score, better is the self care.
- Self-developed assessment checklist (clinical and demographic variables)

Socio-demographic Variables

Variable	Educated (n=115)	Un Educated (n=115)	P-Value
Age	58.03+/-13.54	58.81+/-10.54	0.62
Gender Males Females	79% 21%	53% 47%	
Marital Status Married Unmarried/divorc ed/single	90% 10%	95% 5%	
Average Monthly Income in PKR	52000+/-40000	23000+/-19000	0.000

Clinical Variables

Variables	Educated (n=115)	Un-Educated (n=115)	P-Value
Functional Class I II III IV	21%(24) 39%(45) 30%(34) 10%(12)	10%(11) 45%(52) 28%(32) 17%(20)	

	Educated (n=115)	Un Educated (n=115)
Self-Care	27.07 (7.11)	32.40 (5.31)

	Educated (n=115)		Un Educated	
			(n=115)	
VARIABLES	B- Coeff Value	P-	β- Coeff Value	P-
Gender	-2.293	0.192	-0.781	0.430
Income	-0.000034	0.001	-0.000048	0.060
Chronicity of HF diagnosis	-0.006	0.097	-0.007	0.024
Age	-0.028	0.601	-0.050	0.314

Education Status

- Updated Knowledge
- Mere education is not a predictor of SCB
 Stromberg, 1999

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Abl

Physician guided self adjustment of diuretics

Better SCB among educated as compared to uneducated counterparts
Rockwell & Riegel, 2001

Experience of Illness

HELP SEEKING BEHAVIOR

A learning Experience

In Toved S

Positive ass between Experien Adherence to SCB

(Carlson et al, 2001; Riegel & Carlson, 2002; Cameron et al., 2009

Experiential learning is common in most of the Eastern and Western HF Studies

in

Experience is not a predictor of Self-care (Kato et al., 2009)

Severity of symptom drives active self care

(Rockwell & Riegel, 2001)

Financial Status

- Affordability fo facility, or priva
- Quick access to
- Despite absence and management

- Prophylactic Medical help may not be a priority
- Difference of insurance culture
- Lower rates of help seeking than previous studies

(Kato et al., 2009)

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 Unaffordability; A signitant barrier to help seeking and medication compliance

Health Care system

- Lack of communication between patients and physician.
- Free Access to tertiary
 Scotto, 2005
 Significant Facilitator
 Behaviors.
- Time consuming hospital visits
- Difficult accessibility
- Cost of the private health care facility

Implications

Practice

- Initiation of Community based Services to improve accessibility.
- Development of Flexible HF management Programs
- Home based services would improve Patients' and their family's participation in HF management.
- Special Educational Sessions
 Multiple teaching modalities

Implications

Research Implications

- Patient outcomes such as QOL, ER visits, and cost analysis are important to quantify.
- Exploration of self care practices will be helpful to develop educational programs within the cultural context

THANK YOU