

The RTSQ (Renal Treatment Satisfaction Questionnaire): A condition-specific measure of satisfaction with treatment for End-Stage Renal Failure.

- design and develop a measure of satisfaction with treatment for end-stage renal failure, for use in routine clinical care and clinical trials.
- To investigate the psychometric properties of the RTSQ using data from 140 outpatients undergoing renal replacement therapy at a U.K. hospital-based renal unit.

2) Introduction

Quality and effectiveness of care can be enhanced through the use of condition-specific measures of satisfaction with treatment. The RTSQ (Renal Treatment Satisfaction Questionnaire) is a measure of satisfaction, designed to be suitable for people using different treatment modalities for ESRF. It was modified from the Diabetes Treatment Satisfaction Questionnaire 1, which has proved to be a valuable tool in understanding patient views of treatment, and identifying changes in treatment satisfaction during clinical trials 2.

The undeveloped RTSQ design included 12 items

7 items were modified from the DTSQ to be suitable for the renal condition (RTSQ items 1, 3, 4, 6, 9, 10, 11).

ditional items were designed to measure

- satisfaction with renal control freedom afforded by treatment demands of treatment satisfaction with time involved in treatment

The design of the RTSQ was informed by: the literature

- rience of existing condition-specific eatment satisfaction measures including the DTSQ
- pilot testing and interviews.

3) Method

The 12 - Item RTSQ was included in the questionnaire package for a study of 140 patients receiving renal replacement therapy from one District General Hospital. Modality of treatment of study participants was as follows:

haemodialysis: N = 35
CAPD: N = 59
transplant: N = 46

Patients received a mailed invitation to participate in the study, as part of a review of the renal service. They were asked to return completed questionnaires, including the RTSQ, to the research team in the pre-paid envelope provided.

4) Results

Investigation of the psychometric properties of the measure using data from all treatment modalities revealed an 11-item scale, which accounted for 58% of the variance in the dataset. The factor structure is presented in Table 1.

Scale reliability was excellent (alpha coefficient for 10-item scale (whole sample) was 0.93). Alpha coefficient also proved robust to analysis in separate treatment groups (alpha coefficients ranged between 0.89 and 0.95)

Larger subject numbers are needed to confirm the scale structure in separate treatment groups.

RTSQ **QUESTIONNAIRE**

The following questions are concerned with the treatment for your renal condition (which may include some form of dialysis, tablets, dietary and/or fluid restrictions) and your experience over the past few weeks. Please answer each question by circling a number on each of the scales

- How satisfied are you with your current treatment?

 very satisfied 6 5 4 3 2 1 0 very dissatisfied

- How convenient have you been finding your treatment to be recently?

 very convenient 6 5 4 3 2 1 0 very inconvenient.
- How flexible have you been finding your treatment to be recently?

 very flexible 6 5 4 3 2 1 0 very inflexible
- How satisfied are you with the amount of freedom you have with your present treatment very satisfied
 6 5 4 3 2 1 0 very dissatisfied
- How satisfied are you with your understanding of your renal condition?

 very satisfied 6 5 4 3 2 1 1 0 very dissatisfied

- very satisfied 6 5 4 3 2 1 0 very disc
- atisfied are you with the extent to which the treatment fits in with your lifestyle?

 very satisfied 6 5 4 3 2 1 0 very dissatisfied Would you recommend this form of treatment to someone else with your kind of renal condition?
- Yes, I would 6 5 4 3 2 1 0 No, I would definitely recommend the treatment the treatment
- How satisfied would you be to continue with your present form of treatment?

 very satisfied 6 5 4 3 2 1 0 very dissatisfied

Please make sure that you have circled one nu Thank you

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Table 1. Factor Structure

Item no.	Item Content	Factor Loading
	Satisfaction with current treatment	0.774
	Satisfaction with control over renal condition	0.678
	Convenience of treatment	0.863
	Flexibility of treatment	0.831
	Freedom afforded by treatment	0.776
	Satisfaction with understanding of condition	0.583
	Satisfaction with time taken by treatment	0.807
	Discomfort or pain involved with treatment	0.767
	How well treatment suits lifestyle	0.780
10	Would you recommend this treatment?	0.715
	How satisfied would you be to continue present treatment?	0.806

The 11-item RTSQ provides a reliable, brief, condition-specific treatment satisfaction measure for clinical trials and routine clinical care in renal replacement therapy.

The RTSQ may be used to help:

- quantify individual satisfaction / dissatisfaction with aspects of the ESRF treatment
- identify people who may benefit from changes in treatment modality
- compare treatment satisfaction in subgroups of patients (e.g. those using different treatment modalities)

6) References

- Bradley, C (1994). Diabetes Treatment Satisfaction Questionnaire (DCSQ) in Bradley, C (Ed). Handbook of Psychology and Diabetes: A guide to psychological measurement in diabetes research and practice. Harwood Academic Publishers, Chur, Switzerland, p392-393.
- 2) Bradley, C (1999). On calculating Treatment Satisfaction. *Diabetes Care*, 22: 1760.

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