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Review

A review on quality of life in systemic sclerosis

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ABSTRACT

Systemic sclerosis (SSc) is a chronic multi-system autoimmune disease associated with disability and reduced quality of life. There is no effective treatment or cure to SSc, so it is important improve global health of these patients and reduce morbidity and mortality associated with SSc. It was made a literature review about quality of life in patients with SSc, regarding the several factors that should be considered and evaluated when attending to SSc patients. It was also considered the validated scales and questionnaires used to measure outcomes in patients with SSc. We concluded that it is important to have an interdisciplinary approach to SSc patients considering the patient's cognitive representations of the disease and what they value most like mobility and hand function, pain, fatigue, sleep, depression and body image.

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Contents

| | | |
|--------|--|---|
| 1. | Introduction | 0 |
| 2. | Material and methods | 0 |
| 3. | Features related to quality of life in SSc patients | 0 |
| 3.1. | Gender | 0 |
| 3.2. | Work productivity | 0 |
| 3.3. | Sleeping disorders | 0 |
| 3.4. | Depression | 0 |
| 3.5. | Sexual function | 0 |
| 3.6. | Raynaud's phenomenon and stiff hands | 0 |
| 3.7. | Skin deformities and disfigurement | 0 |
| 3.8. | Gastrointestinal problems | 0 |
| 3.9. | Pruritis | 0 |
| 4. | Quality of life in SSc—measurement instruments | 0 |
| 4.1. | Assessment of global health-related quality of life and life satisfaction | 0 |
| 4.1.1. | Patient-Reported Outcomes Measurement Information System—29 (PROMIS-29) Version 1 | 0 |
| 4.1.2. | Short form 36 questionnaire (SF-36) version 2 | 0 |
| 4.1.3. | The patient overall health assessment | 0 |
| 4.1.4. | The physician assessment of overall health | 0 |
| 4.1.5. | Manchester Short Assessment of Quality of Life (MANSA) | 0 |
| 4.2. | Assessment of global disability and pain | 0 |
| 4.2.1. | Health Assessment Questionnaire Disability Index (HAQ-DI) and Scleroderma Health Assessment Questionnaire (SHAQ) | 0 |
| 4.2.2. | McMaster Toronto Arthritis Patient Preference Disability Questionnaire (MACTAR) | 0 |
| 4.2.3. | Pain assessment | 0 |
| 4.2.4. | SSc-associated symptoms assessment | 0 |
| 4.2.5. | Symptom Burden Index (SBI) | 0 |

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| | | |
|---------|---|---|
| 4.2.6. | Patient-generated Index (PGI) | 0 |
| 4.3. | Assessment of work-related factors and daily activities | 0 |
| 4.3.1. | The modified Work Productivity Survey—Rheumatoid Arthritis (WPS-RA) | 0 |
| 4.3.2. | Work Ability Index (WAI) | 0 |
| 4.3.3. | Scleroderma Functional Score (FS) | 0 |
| 4.3.4. | Satisfaction with Daily Occupations (SDO) instrument | 0 |
| 4.4. | Assessment of fatigue | 0 |
| 4.4.1. | Functional Assessment of Chronic Illness Therapy—Fatigue (FACIT-Fatigue) | 0 |
| 4.5. | Assessment of sleep | 0 |
| 4.5.1. | Medical Outcomes Study Sleep Scale (MOS-SLEEP) | 0 |
| 4.6. | Assessment of depression | 0 |
| 4.6.1. | Center for Epidemiologic Studies Short Depression Scale (CESD-10) | 0 |
| 4.6.2. | Patient Health Questionnaire—8 or —9 (PHQ-8 or -9) | 0 |
| 4.7. | Assessment of sexual function | 0 |
| 4.7.1. | Female Sexual Function Index (FSFI) | 0 |
| 4.7.2. | Female Sexual Distress Scale (FSDS) | 0 |
| 4.8. | Assessment of specific physical disability, esthetic and skin impairment | 0 |
| 4.8.1. | The Cochin Hand Function Scale (CHFS) | 0 |
| 4.8.2. | Mouth Handicap in Systemic Sclerosis Scale (MHSS) | 0 |
| 4.8.3. | Satisfaction with Appearance Scale (SWAP) | 0 |
| 4.8.4. | Dermatology Life Quality Index questionnaire (DLQI) | 0 |
| 4.8.5. | Raynaud's Condition Score (RCS) | 0 |
| 4.9. | Assessment of gastrointestinal and nutrition problems | 0 |
| 4.9.1. | The University of California Los Angeles Scleroderma Clinical Trial Consortium Gastrointestinal Scale 2.0 (UCLA SCTC GIT 2.0) | 0 |
| 4.10. | Assessment of dyspnea and lung involvement | 0 |
| 4.10.1. | Mahler's Baseline Dyspnea Index (BDI) and Transition Dyspnea Index (TDI) | 0 |
| 4.10.2. | Cambridge Pulmonary Hypertension Outcome Review (CAMPBOR) | 0 |
| 5. | Conclusion | 0 |
| | Conflicts of interest | 0 |
| | Author contributions | 0 |
| | Take-home messages | 0 |
| | References | 0 |

1. Introduction

Systemic sclerosis (SSc) is a chronic multi-system autoimmune disease with extremely heterogeneous manifestations, characterized by thickening and fibrosis of the skin, vasculopathy and involvement of various internal organs in different degrees. Patients with SSc report a number of problems associated with disability and reduced quality of life (QoL) [1–3], which in turn is an important factor for disease outcomes [4–6]. Also the presence of polyautoimmunity in SSc, a common condition affecting one quarter of the patients, could influence both disease phenotype and severity. These patients seem to have a milder disease [7].

There is no effective treatment or cure to SSc [8–10], so a primary goal of care is to reduce symptoms and disability and to improve health-related quality of life (HR-QoL), with both pharmacological and non-pharmacological interventions [8,11].

Patients with rare diseases and especially with SSc face unique challenges that are not covered by generic interventions or interventions developed for other chronic diseases [8,12], so to improve global health of these patients and reduce morbidity and mortality associated with SSc, it is important to measure outcomes with validated scales and questionnaires.

The authors decided to make a literature review about quality of life in patients with SSc.

2. Material and methods

A literature search was performed on October 1, 2014 using PubMed database with the keywords quality of life in conjunction with scleroderma or with systemic sclerosis. The results of the search included a total of 599 articles. After duplicates removal remained 337 articles selected. The abstracts of all original and review articles in English were read. Those thought to be relevant with full text available and

pertinent secondary references were fully examined, and 117 articles were included.

3. Features related to quality of life in SSc patients

Knowledge about the frequency and perceived impact of the range of problems faced by individuals living with SSc, is limited [1,11]. It is important to know that there is a great difference between the assessment of the disease severity and HR-QoL [4,13]. The patient's cognitive representations of the disease are the most important determinants of physical and mental health. A recent study suggested that the fear of clinical consequences and the tendency to attribute each physical complaint to SSc are major contributors to the physical health, while the emotional responses to personal representation of the disease contribute to mental health [13,14]. The “Canadian Scleroderma Patient Survey of Health Concerns and Research Priorities” suggests that patients with SSc are more unsatisfied with healthcare than other chronically ill patients [2], because SSc involves more visible physical disfigurement that tends to worsen over time, contributing to high psychological morbidity (more depressive symptoms and anxiety) [15], regular use of healthcare and related increased costs. Physicians may ignore or use unreliable measurements to evaluate psychological distress [16]. While physicians may prioritize objective indicators of disease status, patients may perceive other aspects of their disease experience as more debilitating or distressing [1,17,18], like limitations in mobility and hand function, pain, fatigue, sleep disturbance, depression, sexual dysfunction and body image distress from disfiguring changes in appearance (pigment changes, hand contractures and facial telangiectasias for example) [8].

Van Lankveld et al. [15] reported that fatigue, functional limitations, skin deformities, pain and disfigurement were the most annoying symptoms, whereas Suarez Almazor et al. [18] identified physical pain, coping skills, social aspects of living with the disease, physical

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