Quality of Life of Patients Followed for Thyroid Cancer: An Element Not to Overlook

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Abstract

The quality of life has attracted great interest in recent years, primarily in patients followed for cancer.

Differentiated thyroid cancer, despite its good prognosis, is responsible for a significant deterioration in the quality of life found in several studies.

Many factors affecting the quality of life were found in the studies, including radioiodine therapy and its dosage, the use of rh-TSH, total thyroidectomy and lymph node dissection, the stage of cancer, hormone treatment with TSH suppression, age and sex.

Particular attention should be paid to patients being followed for thyroid cancer, to restore their quality of life, especially in the presence of factor affecting the quality of life.

Keywords: Thyroid Cancer; Quality Of Life; Radioiodine Therapy

Introduction

Thyroid cancer is the most common endocrine cancer, and its incidence is increasing worldwide, especially because of the availability and evolution of diagnostic means [1]. It reaches 4 / 100000 inhabitants in men and 15 / 100000 in women, with a stable mortality in the order of 0.5 / 100000 [1,2].

This increase in the number of cases of thyroid cancer is mainly related to the increase of infracentimetric papillary carcinomas which represent about 40% of all cancers [1,3].

This raises the problem of over diagnosis of these small tumors that do not influence the survival but alter the quality of life (QoL) of the patient, [1] their diagnosis turns the patient status from a healthy subject to a cancerous subject.

Indeed, although thyroid cancer is a cancer of good prognosis, the diagnosis of cancer remains difficult to accept and has a significant impact on the quality of life.

The concept of quality of life is a recent concept, which is in constant evolution. Its main dimensions include environmental, social and economic factors [4].

Several studies have focused on analyzing the quality of life in patients treated for differentiated thyroid cancer [5-10] and the latest recommendations aim at a better adaptation of our practices towards a less aggressive handling of patients undergoing follow-up for differentiated thyroid cancer (DTC). [1,11]

Through this article, we will analyze several publications that raise the issue of the deterioration of quality of life in patients followed for differentiated thyroid cancer, and look for the factors described in the literature that significantly influence this quality of life.

Discussion

The concept of quality of life appeared in the United States in the 1950s, and initially meant a good material standard of living. [12,13]

In the 1960s, the concept acquired several dimensions: education, health, well-being, are also an integral part of the quality of life. [12,13]

WHO defines QoL as “an individual’s perception of their position in life in the context of the culture and value systems in which they live and in relation to their goals, expectations, standards and concerns.” [14]

In cancer research, it is now considered a major criterion of judgment used in the same way as other clinical criteria. [12,13]

To date, many quality of life questionnaires have been developed and validated, among them many are used in cancer patients.

Some are generic questionnaires such as the SF36 [15], the EuroQol [16], others generic tools are used more often with cancer patients, like the FLIC [17], and the FACT-G [18].

Generic questionnaires are nonspecific and can also be used on the general healthy population, thus allowing comparison of study groups to healthy control groups.

There are also specific questionnaires that are specific to a situation, to a pathology (thyroid, multiple sclerosis,
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The type of surgery (total thyroidectomy and lymph node dissection):

- Surgery is usually the most stressful time for patients, the idea of dissection in the cervical region, the fear of postoperative complications, and the idea of a lifetime treatment after the thyroidectomy is responsible for a major anxiety. A good explanation of the procedure by the surgeon helps to reassure patients. [5]

Some studies [32,33] have analyzed the impact of thyroidectomy on the quality of life of patients with thyroid cancer; a better esthetic result and a minimum of pain allows to have a better quality of life. Post-thyroidectomy scars on the neck affect the QoL of thyroid cancer patients regardless of scar type. Therefore, clinicians should pay attention to the psychological effects of scars on patients and take care to minimize post-thyroidectomy scar [5]

In Almeida’s study [28], radical neck dissection was among the factors that negatively affected the quality of life.

Cancer stage

Many studies found a more altered quality of life in the advanced stages of cancer, essentially in patients with lymph node or distant metastases, or with local extension. This could be explained by the more aggressive treatment used in these cases, along with the need for multiple radioiodine therapy sessions.

Guisti et al [7] analyzed the quality of life in 128 patients using 3 quality of life questionnaires (Ad Hoc TQ, Hamilton depression and anxiety), the quality of life was more impaired in advanced stages.

Hormonal balance

Hormone treatment with TSH suppression is an important part of the therapeutic care of patients. Keeping patients with subclinical hyperthyroidism may be responsible for impaired quality of life, as well as cardiovascular and bone risks. [34]

This element has been controversially found in studies, the Hoftijzer et al study concluded that subjects monitored for DTC have an impairment of quality of life regardless of TSH levels. [26]

Duration of evolution of the disease

Despite the remission, the excellent prognosis and the non-aggressive treatment, patients with CDT have a decrease in quality of life that may only be restored after years of follow-up; the quality of life sometimes remains impaired despite the remission.

Several authors have suggested that quality of life restores to normal after prolonged follow-up, and this duration has been determined between 12 and 20 years. [6,8,26]

Demographic criteria

This is essentially the impact of age and gender on the quality of life.

Taeb et al [35] indicated that elderly patients and those with a more severe stage of the disease have lower quality of life.
scores, and determined the age limit that influences quality of life at age 45.

Metallo et al indicated that quality of life would be better in young patients. [36]

Psychosomatic interventions and behavioral support

A study in China [37] has shown that psychological and behavioral interventions can play an important role in improving the quality of life.

Physical exercise can also reduce the anxiety due to the treatment as highlighted in a Brazilian study [38], which showed that a 60 minutes twice à week program, consisting of aerobic and stretching exercises, can reduce significantly the negative impact of treatment on QoL.

This underlines the importance of looking for patients in pain and offering them programs that can improve their well-being.

Conclusion

The symptoms and treatment of cancer usually results in a series of profound changes in the mental and psychological capacity of patients.

An alteration of the quality of life is often found after the discovery of thyroid cancer. Several factors are at play, including the stage of the cancer, the radioiodine therapy and its dosage, the use of rh-TSH, the surgical procedure, hormone treatment with TSH suppression, the age and sex of the patient.

Great attention should be given to the psychological well-being of patients especially in the presence of risk factors that impair the quality of life.

References

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