Smoking Cessation: An Essential Component in the Treatment of Lung Cancer Patients

Abandono del tabaquismo: un componente esencial en el tratamiento del paciente con cáncer de pulmón

To the Editor:

Continued tobacco use has been documented in patients with cancer. In some studies, between 40% and 60% of lung cancer patients continued smoking after their diagnosis and, as seen in other studies with lung cancer patients who quit smoking, relapses are frequent. The continued consumption of tobacco in patients with cancer can lower their possibilities for survival, increase the risk for the appearance of a second primary tumor, and compromise the effectiveness of the medical treatment as well as causing a loss in quality of life. Consequently, the importance of integrated smoking cessation therapy in the oncologic context is growing in strength.

Unfortunately, there are very few studies in the literature that research anti-smoking therapy in lung cancer patients, while, in the majority that do, there is an insufficient number of participants and a lack of physiological validation of the verbal manifestation of abstinence (CO [carbon monoxide] measurement in exhaled air). Although there is more and more evidence that smoking cessation after the diagnosis of lung cancer is linked with greater treatment efficacy and a better prognosis of the disease, there is an erroneous prevailing belief that nicotine-dependence treatment is not useful in this group of patients.

Lung cancer survival rates are improving each year, and the current expectations for 5-year survival of non-small-cell lung cancer is 60%–75% for stage I and 36%–60% for stage II. The new anti-carcinogenic agents have the capability to increase survival in patients with lung cancer.

In the past, the treatment of tobacco habit was not considered an important factor in cancer patients, despite the new anti-cancer treatments that achieved greater survival. Today, there is a notable need for clarifying the role that smoking cessation plays in the follow-up of lung cancer patients.

References

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Severe Respiratory Failure Secondary to a Ventriculo-Pleural Shunt

Insuficiencia respiratoria grave secundaria a drenaje ventriculopleural

Dear Editor:

Hydrocephalus is the abnormal dilatation of the ventricular system of the brain due to the accumulation of cerebrospinal fluid (CSF). There are various methods for shunting CSF from the central nervous system to other cavities with absorptive capacity, the most widely used of these being the ventriculo-peritoneal (VP) shunt. Under certain circumstances, this type of shunt placement is unavoidable or contraindicated: infections, previous surgeries that could favor the development of bridle, thrombosis or obliteration of the drainage system. In such cases, ventriculo-pleural (VPL) shunts are a simple, safe alternative. This technique, however, is not free of complications.

We present the case of a 59-year-old woman with a history of normal-pressure hydrocephalus requiring treatment with VP shunting. Eight years later, the patient underwent abdominal surgery due to acute perforated diverticulitis. The post-surgery evolution was torpid, with episodes of repetitive meningitis and a nasal CSF fistula. Given the said complications and the previous abdominal surgery, a decision was made to place a programmable VPL shunt. After a few months, the patient was admitted to the ICU due to progressive respiratory failure, even at rest, with criteria for severity. Upon auscultation, the patient presented diminished vesicular murmur in the right hemithorax, and chest radiography revealed a massive right pleural effusion (Fig. 1). Thoracocentesis was performed and an intrathoracic drain tube was inserted. The liquid presented biochemical characteristics compatible with hydrothorax. After increasing the pressure of the valve aperture and the evacuation of the effusion, the later evolution was satisfactory.

Since the description of VPL shunting by Heile in 1914, this technique has been a useful alternative to VP shunts, which today is still the method of choice. CSF can be directed towards different cavities, such as the peritoneal, atrial and pleural. Important groups of complications have been reported: mechanical (obstruction of the catheter, migration or rupture), functional (due to poor CSF absorption) and infectious (with an incidence of 8%–12% in the first 6 months). Ventriculo-atrial shunts have fallen into disuse because of thromboembolic complications (pulmonary, intracardiac, vena cava) and infections (thrombophlebitis, septic emboli, nephritis). Thus, the use of VPL shunts is a simple, useful option, although it is not complication-free. Initially, its use was
Despite all the advances made in its management, the mechanisms by which CSF accumulates pathologically after VPL shunt placement are still unknown. It has been postulated that there are irritative or inflammatory mechanisms related with the catheter itself (generating a greater presence of lymphocytes in the pleural liquid). This mechanism generates an increase in the production of pleural liquid with alteration of the lymphatic flow, as well as a reduction of the pleural absorptive surface. This latter point is especially true in children, seniors and patients with lung pathologies. The establishment of this phenomenon can be gradual, which would explain the evolution of the disease observed in our patient.

Despite the lack of prospective studies evaluating the effectiveness of VPL shunting, we can conclude that it is an effective alternative for long-term CSF drainage when there are contraindications for VP shunt placement. We should, therefore, become familiar with this technique and keep in mind its potential complications in order to detect these early on.

References


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