Legal Provisions On Procurement Of Complementary Medicines, Various Methods Of Cancer Treatment – And A Case Of Bai Chay Hospital Quang Ninh

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Abstract:
Our study purpose is to figure out VARIOUS METHODS OF CANCER TREATMENT – and present a case of Bai Chay hospital Quang Ninh Vietnam.

At the right time, the doctor will need to talk to the patient about their treatment options. The timing of discussion may depend on the urgency of the treatment. This also depends on when the test results are available. The purpose of radiation therapy in cancer treatment: Using high-energy beams to impact the tumor to help destroy and limit the growth of cancer cells. Whereas The purpose of radiation therapy in cancer treatment: Using high-energy beams to impact the tumor to help destroy and limit the growth of cancer cells.

Last but not least, Legal provisions on procurement of complementary medicines
Ensuring adequate, quality, and timely supply of drugs to patients, but ensuring compliance with legal regulations on drug procurement is a mandatory requirement for all public hospitals

Keywords: cancer treatment, various solutions, surgery, treatment at home, Bai chay hospital

1. Introduction

Currently, there is no set standard for what type of cancer to use. This depends on the cancer, the effectiveness and side effects of each method, your loved one can accept for the doctor to offer a treatment plan consisting of one or more different methods.

In Vietnam, common methods such as surgery, radiation and chemotherapy are common. However, the world is known for 6 different types of treatment methods.

a. The goal of surgery in cancer treatment: Removal of the tumor

b. How to perform surgery in cancer treatment: The patient will be anesthetized and the foreign doctors will perform the procedure

c. Side effects of surgery in cancer treatment:
   - Pain after surgery
   - Feeling tired

Other side effects depend on where the tumor is and the type of surgery performed

Then,

a. The purpose of radiation therapy in cancer treatment: Using high-energy beams to impact the tumor to help destroy and limit the growth of cancer cells.

b. Method of performing radiation therapy in cancer treatment: Radiation is emitted from the machine and radiates into the body.

c. Side effects of radiation therapy in cancer treatment:
   - Feeling tired
   - Skin get red

Other side effects depend on where the tumor is and the type of surgery performed

(source: https://pkgdvietuc.com/cac-phuong-phap-dieu-tri-ung-thu/)

Hence we select this topic “VARIOUS METHODS OF CANCER TREATMENT – AND A CASE OF BAI CHAY HOSPITAL QUANG NINH”.

2. Previous studies

We look at below table

Table 1- Related studies

http://www.webology.org
<table>
<thead>
<tr>
<th>Authors</th>
<th>Year</th>
<th>Content, results</th>
</tr>
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<tbody>
<tr>
<td>Benjamin</td>
<td>2014</td>
<td>Cancer treatment will be effective only if it is be based on a valid paradigm of what cancer is and therefore capable of affecting the course of the disease. A review in 1993 found no evidence that surgery affected the course of the disease and an alternative paradigm was proposed. No benefits can be expected to be achieved from using cancer surgery except in a few immediately life-threatening situations. Surgery appears to be based on an invalid paradigm of what cancer is. Cancer appears to be a systemic disease and therefore standard treatments need to be reassessed in this light.</td>
</tr>
<tr>
<td>Jones</td>
<td>1956</td>
<td>Jones [5] analysed statistics on mortality rates for different diseases from studies throughout the world and found that for chronic diseases, including both cancer and heart disease, people with these diseases lie on a constant slope mortality curve. Their mortality continues to double every 8½ years. Each disease has a different age-specific mortality rate line, but all</td>
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the lines had the same slope. The line for cancer is higher than for healthy people of the same age. Alternatively it can be considered to be displaced to the left by about 15 years. In other words people with cancer behave as if the cancer had aged them by 15 years.

<table>
<thead>
<tr>
<th>Author</th>
<th>Year</th>
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<tbody>
<tr>
<td>Klein</td>
<td>2015</td>
<td>Discuss Prospective Longitudinal Assessment of Quality of Life for Liver Cancer Patients Treated With Stereotactic Body Radiation Therapy</td>
</tr>
<tr>
<td>Nguyen Trong Hung, Dinh Tran Ngoc Huy, Tran Thi Tra Phuong, Le Ngoc Nuong4, Ninh Thi Nhung</td>
<td>2023</td>
<td>Surgery is a crucial intervention and provides a chance of cure for patients with cancer. The perioperative period is characterized by an increased risk for accelerated growth of micrometastatic disease and increased formation of new metastatic foci. The true impact for cancer patients remains unclear. Surgery is one of the optimal methods of radical treatment of gastrointestinal cancers such as stomach cancer, colon cancer, gallbladder cancer.</td>
</tr>
<tr>
<td>Nguyen Trong Hung, Luong Thi Xuan, Nguyen Thi Khanh Huyen, Nguyen Thi Luong Hanh, Tran Thi</td>
<td>2022</td>
<td>discussed Living Quality Evaluation of Liver Cancer Patients at Bai</td>
</tr>
</tbody>
</table>
(source: author synthesis)

Beside, DTN Huy, PM Dat, PT Anh (2020) said banks need to support this progress and confirmed by (DTN Huy, VK Nhan, NTN Bich, NTP Hong, NT Chung, PQ Huy, 2021; DTN Huy et al, 2020).


3. Research Methods

3.1. The method of data collection

All data we collect from reliable sources such Banking system, other data from Bureau statistics, National Custom Office, Ministry of Investment and Planning. All data collected for OLS regression during the period 2010-2021.

3.2. Methods of data analysis

We use both qualitative analysis (synthesis, analytical, explaining methods) and OLS regression model. With EView.

4. Main findings and discussions

4.1 Bai Chay hospital

In early 2019, Quang Ninh Province's largest Cancer and Radiation Center with 200 beds went into operation, helping cancer patients in Quang Ninh province receive effective treatment locally. At the same time, laying the "foundation" for the specialized development of oncology, contributing to improving the quality of health services in the province.

Along with that, the Hospital has invested in a system of modern and synchronous machinery and medical equipment, giving accurate diagnostic results such as: 1.5Tesla MRI machine, 128-series CT Scanner, digitized angiography background removal DSA, digital X-ray system, 3D and 4D ultrasound system, gastrointestinal endoscopy system, automatic hematology and biochemistry testing machines, SPECT scanner system, microscope micro-pathology, instant diagnostic cold slide cutting machine, etc. to help diagnose, treat and care for patients better. In particular, in 2018, the intelligent operating room integrated with a Navigation machine, a mobile CT machine, a one-way air circulation system... came into operation, increasing the "breakthrough" in neurosurgery - skull in Quang Ninh.
At Oncology Intensive Care Department, Bai Chay Hospital

21 gifts with a total value of more than 10 million VND were given by the benefactors of Thien Tam Hoa Sen Club to cancer patients with extremely difficult circumstances being treated at the Oncology Center, Bai Chay Hospital.

This is an activity with profound humanistic meaning of benevolent hearts, expressing the spirit of "mutual love" of the nation, sharing difficulties and hardships, energizing motivation, optimism, and faith. love life so that the critically ill can overcome their circumstances and diseases.

Infrastructure

Oncology Department of Bai Chay Hospital invests in a complete system of machinery and equipment, updating modern machines to serve the medical examination and treatment process. Helps the doctor to accurately diagnose the degree of pathological development. Besides, the hospital is also equipped with advanced medical equipment to help the examination and treatment process become safer and more effective and save a lot of time.

Some equipment at the hospital:

– Consists of 2 units: Surgery and chemotherapy with 60 inpatient beds.
– There are 3D endoscopic surgery rigs, Welding knife, Digestive surgery kit…
– There is a full range of equipment and machinery: electric pump, infusion machine… for chemical infusion.
– There is a system of intelligent injection vehicles according to international standards to serve the care of patients.

Fig 1 – Caring cancer patients
On the other hand, Medical ethics and medicine are the basic foundations of the medical profession, the industry that directly takes care of human health. Therefore, regular training and training to improve medical ethics, medicine and update information on the COVID-19 epidemic situation for health workers in Quang Ninh province is extremely urgent.

Fig 2 – Oncology Department of Bai Chay Hospital

(source: internet)

4.2 Cancer treatment at home

Massage therapy - massage, yoga and meditation to support lung cancer treatment at home
Lung cancer patients need to go through a very complicated treatment process such as surgery, chemotherapy, radiation therapy... Stress as well as feelings of anxiety, sadness, lack of confidence... affect disease recovery. Caregivers should consult with their doctor about adding supportive massage, yoga, and meditation to home treatment. Massage — massage helps blood circulation, helps metabolism work more easily. Gentle meditation and yoga help the patient's mind relax, more comfortable, more relaxed, helping to reduce pain caused by cancer. In addition, these therapeutic methods will help patients understand and accept the truth more, in order to bring more positive results to the treatment.

Diet for lung cancer patients at home

In addition to combining relaxation therapy as well as using herbs to make tea for home use. Lung cancer patients need to have a vitamin-rich diet with clean foods and fresh fruits every day to improve their health to overcome this dangerous disease. Nutritious foods to supplement such as: Apples, pears, ginger, turmeric, tomatoes, carrots, watercress, broccoli, berries, grapes... in the form of juices, fresh fruits or can be processed into thin soups to change the taste and good for the patient's digestive system. (source: nhathuoclongchau.com)

4.3 Other solutions for cancer treatment

First, How does a treating doctor determine treatment options for a cancer patient?

In general, a cancer patient's treatment options will depend on:
Type of cancer
Cancer stage
In-depth tumor tests (eg, biomarker or hormone receptor testing)
Complementary tests (eg, blood tests, genetic tests, X-rays, or other imaging tests)
Patient's condition
Background diseases of the patient
The needs and wishes of the patient
Some common cancer treatments include:
Surgery
Radiotherapy
Valence
Endocrine treatment
Target treatment
Immunotherapy
Stem cell transplant or bone marrow transplant?
Sometimes, treatment options include a clinical trial. Clinical trials are studies that test new treatments. You can ask your doctor to find a clinical trial that's right for your cancer type and stage.

Some other methods that can be used for cancer patients include:

Palliative care: Palliative care can be used for seriously ill people such as people with cancer. The goal of palliative care is to improve quality of life through the management of symptoms, side effects, and other problems. Palliative care can be used at any point from cancer diagnosis, during treatment, and into the rest of life.

Hospice: Hospice is a way of caring for people in the terminal stages of a terminal illness, such as advanced cancer, so that the person can live as fully and comfortably as possible.
(source: benhvienungbuouhanoi.vn)

5. Discussion and Conclusion
Systemic anticancer modalities include

Hormone treatment (for certain cancers, eg, prostate, breast, endometrial)

Immunotherapy includes monoclonal antibodies, interferons, biological response modifiers, tumor vaccines, and cell therapies (for various cancers)

Differential agents such as acute eosinophilic retinoids) and isocitrate dehydrogenase-2 (IDH2) inhibitors (for acute myeloid leukemia)

Targeted drugs apply the growing knowledge of cellular and molecular biology.

Usually, doctors will combine the above methods to develop a suitable treatment plan for each patient, based on the characteristics of the tumor as well as the patient's preferences. These modalities can be combined with initial treatment at the same time or used before or after. The primary purpose of adjuvant therapy given later and adjuvant therapy given earlier is to prevent cancer recurrence and increase survival..
(Source: msdmanuals.com)

Our study also presents a case of Bai Chay hospital, Quang Ninh. Focusing on training, attracting high-quality human resources and implementing "mastering" many high-tech techniques in medical examination and treatment

Defining "people" and "science and technology" as the "key" factors for brand building and patient satisfaction, Bai Chay Hospital always focuses on fostering and training high-quality human resources. deploying many new and specialized techniques in the world and leading hospitals in the country. Currently, a team of more than 800 staff, doctors and medical staff of the Hospital are deploying and mastering nearly 15,000 techniques according to division, including high and specialized techniques at the central level. Highlights such as: Endoscopic esophagectomy; endoscopic spinal disc herniation
surgery; cardiopulmonary bypass (ECMO); embolization combined with tumor burning by modern microwave technology for patients with liver cancer, thyroid cancer; laparoscopic 3D thoracic and abdominal surgery; Endoscopic gastrointestinal mucosal resection for gastrointestinal cancer treatment; ... Advanced techniques in cancer treatment were also received and transferred such as: Thyroid scintigraphy, renal scintigraphy, systemic bone scintigraphy. SPECT machine, linear accelerator radiation therapy, dose modulated radiation therapy, etc. Thanks to the successful "mastering" of many high-tech techniques, many dangerous and complex diseases have been effectively treated at the hospital. local, helping to reduce the situation of crossing the line, saving costs and time for patients. Since then, helping Bai Chay Hospital increasingly affirm the prestige and brand of the leading general hospital in the country's health sector.

(source: dangcongsan.vn)

Fig 3 – Bai Chay hospital Quang Ninh

(source: internet)

Fig 4 – Training session in Bai Chay hospital
Last but not least, Legal provisions on procurement of complementary medicines
Ensuring adequate, quality, and timely supply of drugs to patients, but ensuring compliance with legal regulations on drug procurement is a mandatory requirement for all public hospitals.

Currently, according to the provisions of the Bidding Law and the Circulars of the Ministry of Health guiding the bidding of drugs at medical facilities, there are six basic forms of contractor selection:

1) Open bidding: Open bidding is a form of selecting contractors and investors in which the number of participating contractors and investors is not limited. Open bidding is applied to all bidding packages within the scope of regulation of the Circular No. 11/2016/TT-BYT dated May 11, 2016 of the Minister of Health regulating the bidding of drugs at medical establishments, public health facilities, unless other forms are applied for bidding packages. The form of open bidding is specified in Article 20 of the Bidding Law and Article 10 of Circular No. 11/2016/TT-BYT.

2) Restricted bidding: Restricted bidding is applied in case the bidding package for drug purchase has high technical requirements or the drug has specific characteristics but only a few bidders can satisfy the requirements of the bidding package. Manufacturers and suppliers of drugs that have been pre-selected by the Ministry of Health to be included in the list of drug manufacturers and suppliers that meet the requirements of competence, experience and reputation as prescribed are invited to participate into the limited bidding process if there are drugs suitable for the bidding package. Annually, the Ministry of Health is responsible for conducting pre-qualification to select a list of drug manufacturers and suppliers that meet the requirements on capacity, experience and reputation as a basis for invitation to participate. limited bidding. The form of limited
bidding is specified in Article 21 of the Bidding Law and Article 11 of Circular No. 11/2016/TT-BYT.

3) Appointment of contractor and appointment of a shortened contractor: Appointment of a contractor is applied to bidding packages that need to be implemented for immediate remedial action or for timely handling of consequences caused by force majeure events; bidding packages to be performed to ensure state secrets; the bidding package should be implemented immediately to avoid causing direct harm to the lives, health and properties of the local community or to not seriously affect the adjacent works; bidding packages for the purchase of drugs, chemicals, supplies and medical equipment to carry out epidemic prevention and control in urgent cases. In this case (except for the bidding package that needs to be performed to ensure state secrets), after the investor or the agency directly responsible for managing the bidding package determines and assigns a qualified and experienced contractor, If the investor has experienced the immediate implementation of the bidding package, within 07 working days from the date of contract assignment, the investor must complete the procedures for submission to the competent person for approval of the contractor selection plan; in this case it is not required to carry out the appraisal of the contractor selection plan.

Research limitation

We could consider more detailed statistics data in our model

Acknowledgement

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