

Several Methods of Cancer Treatment at Hospitals

Ninh Thi Nhung¹, Nguyen Trong Hung^{2*}, Dinh Tran Ngoc Huy^{3*}, Tran Thi Tra Phuong⁴

¹Thai Binh University of Medical and Pharmacy, Thaibinh, Vietnam.

²National Institute of Nutrition, Hanoi, Vietnam. E-mail: nguyentronghung9602@yahoo.com

³MBA, Bankign University HCMC Ho Chi Minh City Vietnam – International University of Japan, Japan. E-mail: dtnhuy2010@gmail.com

⁴Nutrition and Sports, Exercise Medicine Centers System-Nutrihome, Vietnam.

Abstract

There are different treatments for cancer depending on the type of cancer and the stage at which it was found. Therefore, patients should learn as much as possible to understand and know their specific condition. Our study findings show that there are many different cancer treatment methods, but no matter which method is applied, to achieve the most effective treatment, the core still lies in the need to detect cancer as early as possible. Therefore, regular health check-ups and cancer screenings play an extremely important role, not only helping to detect cancer early, but also helping to classify high-risk groups of patients, need a plan. And Cancer treatment should be done as soon as possible, without delay.

Keywords: Methods, Cancer Treatment, Vietnam Hospitals.

DOI: 10.47750/pnr.2022.13.S03.026

INTRODUCTION

First, Bai Chay Hospital is also the first unit to implement minimally invasive methods of intervention with the goal of avoiding a major surgery with many serious complications such as bleeding, wound infection, safety, accuracy, efficiency, high aesthetics for the body. At the same time, shortening the time and cost of treatment, improving the quality of life for patients.

Second, Other hospitals such as FV Hospital, Tam Anh Hospital and Vinmec Intl Hospital also implemented cancer treatment model with international standards to serve cancer patients better.

Therefore, it is important to conduct this study “**SEVERAL METHODS OF CANCER TREATMENT AT HOSPITALS**”.



Fig. 1: Help patients to overcome cancer at Bai Chay hospital (Source: internet)

Next we summarize relevant studies in below table:

Table 1: Summary of previous studies

Authors	Year	Content, results
Dagogo & Shaw	2018	Becoming heterogenous (highly) and cell mixed population by features of molecular which is different: shown in cancer progression.
Roy	2016	Methods for cancer treatment uncluding surgery, chemotheraoy and radiation therapy
El-readi & Althubity	2019	There are cancer obstacles such as resistance (drug). Turmopathology is reason for reduction in conventional cancer efficiency
Carlotta et al	2019	Minilions of death year by year caused by cancer, and many new therapies to alleviate side effects of treatment (conventional). Dianogstic/Theurapeutic is helped by nanomedicine.
Debela et al	2021	There are advances in cancer treatment such as targeted therapy, stem cell therapy, and ablation therapy.

(Source: author synthesis)

Nevertheless, According to data given at the International Scientific Conference on Cancer Prevention held recently in Hanoi, the cancer incidence rate in Vietnam is the second highest in the world. Each year, Vietnam records more than

200,000 new cases, the number of deaths is up to 82,000 cases. Cancer death rate in Vietnam is 73.5%, while this rate in the world is 59.7%, in developed countries it is 49.4%, in developing countries it is only 67.9%. These figures show that the death rate from cancer in Vietnam is very high. They also reflect that the majority of cancer patients in Vietnam are diagnosed late, and treatment methods do not bring high results.

The reason why the rate of cancer in Vietnam has increased rapidly. There are 3 main groups of reasons as follows:

Group 1: Due to high labor intensity.

The most recent survey on working hours of employees shows that up to 95% of employees in non-resident businesses and FDI enterprises have to work regular overtime and night shifts. Health checks for this group of workers show that they have a decline in health.

Group 2: Environmental pollution

The level of air pollution in Vietnam is extremely serious. Especially in big cities like Hanoi and Ho Chi Minh City, many days the level of air pollution is at purple levels – extremely dangerous levels. Air pollution, smog, cigarette smoke, pesticides, artificial odors, poor quality perfumes,... cause the incidence of cancer to increase, especially lung cancer and nasopharyngeal cancer. throat. Low quality of food hygiene and safety, soil pollution, food with residues of many toxic chemicals,... are the leading causes of stomach, colon and esophageal cancers.

(Source: unghthuyengiap.org).

METHOD

Authors have observed practical access and implementation of provisions of the Land Law in Vietnam to learn experiences and lessons.

In this paper, various research methods such as synthetical method, statistical method, legal analysis method, case study, comparative method, etc., are used to clarify issues relating to land use policies.

SEVERAL METHODS OF CANCER TREATMENT

At Bai Chay Hospital Quang Ninh:

With the investment in modern accelerated radiation therapy machine, the doctors of the Oncology Center have quickly applied the dose-modulated radiation therapy (IMRT) technique in cancer treatment. The outstanding advantage of IMRT is that it can increase the dose at the tumor, so the ability to kill the tumor faster, limiting the side effects of radiation therapy.

Along with that, scintigraphy is also effectively deployed by doctors and nurses with 3 high-tech techniques including bone scan, kidney scan, and upper thyroid scan on the SPECT machine system. This is one of the modern imaging equipment and the world's leading nuclear medicine

technique for early detection of tumors, cancer, monitoring cancer recurrence, cancer metastasis.

(source: baoquangninh.com)

At Tam Anh Hospital

In order to detect diseases early and provide appropriate treatment regimens, Tam Anh General Hospital is equipped with the world's leading modern machinery system for screening and diagnosis such as: CT scanner 768 slices Somatom Drive, the latest generation Magnetom Amira BioMatrix MRI scanner, Acuson Sequoia high-end general ultrasound machine, Mammomat Inspiration digital mammography, Fuji 7000 endoscope, the first Cobas Pro testing system in Southeast Asia... In addition, Tam Anh General Hospital also deploys screening packages, screening for early cancer detection, helping to achieve the most effective treatment, while saving costs and reducing the economic burden for patients.

With a spacious infrastructure system, possessing the most modern machinery system in the world, the Oncology Department, Tam Anh General Hospital is oriented to become a center for cancer consultation and treatment combined with comprehensive care. Represent patients according to the following outstanding criteria and characteristics:

Multimodal treatment by combining many methods such as surgery, chemotherapy, endocrine therapy, targeted and immunotherapy, stem cell transplantation into bone marrow...

Individualized treatment: Depending on the patient's condition, psychosocial needs and ability to pursue treatment, to provide an appropriate and effective treatment regimen.

Cooperation and connection with leading oncologists in Singapore: Online consultation helps patients feel completely secure with their treatment plan in Vietnam.

Coordinate with Clinical Psychology and Nutrition specialists to provide psychological counseling and nutritional care for patients before, during and after treatment.

Negative pressure chemical dispensing room with dedicated aseptic dispensing machine according to international standards (ULPA filter with 99.999% filtration efficiency creates a working area that meets ISO Class 3 clean air standards, in line with standards US Pharmacopoeia USP 797) optimally protects the clinical pharmacist's safety when dispensing drugs, minimizing the risk of drug contamination, combined with standard preparation procedures will help provide accurate drug doses. High precision, quality assurance and treatment efficiency.

(Source: tamanhhospital.vn)

At Vinmec Times City International Hospital

In the world, thermotherapy has been applied by many cancer centers in the US, Japan and Germany in the treatment of

recurrent breast cancer, cervical cancer, head and neck cancer, bone and soft tissue cancer.. The results showed that when adding heat therapy with radiation or chemotherapy, the overall response rate increased by an average of 50-67% (compared to 40% without the combination).

In Vietnam, the Center for Oncology - Radiation Therapy, Vinmec Times City International Hospital for the first time applied thermotherapy since October 2018. The therapy is combined with radiation therapy, chemotherapy and autologous immune-boosting therapy with many positive results, especially no side effects are noted.

RECOMMENDATIONS

Based on analysis of cancer treatment situation, we would like to propose recommendations on improvement of legislation as follows:

Firstly, hospitals will offer treatment solutions both at home and at hospitals for patients

Secondly, Support services help reduce side effects of treatment, maximize treatment effectiveness, and help patients recover more easily.

Thirdly, Cancer treatment should be done as soon as possible, without delay.



Fig. 2: Oncology center Bai Chay Hospital
(Source: internet)

CONCLUSION

Currently, there are many different cancer treatment methods, but no matter which method is applied, to achieve the most effective treatment, the core still lies in the need to detect cancer as early as possible. Therefore, regular health check-ups and cancer screenings play an extremely important role, not only helping to detect cancer early, but also helping to classify high-risk groups of patients, need a plan. Careful monitoring and periodic inspection. This analysis has meanings for better governance (Dat, PM et al, 2020; Huy,

D.T.N., & Hien, D.T.N, 2010; Hu, D.T.N., 2015), also with more FDI investment and loans from banks (HOANG, N.T. et al., 2021; TTB Hang et al, 2020; NN Thach, HT Hanh, DTN Huy, QN Vu., 2021, NTT Phuong et al, 2020; NN Thach et al, 2020).



Fig. 3: Also patient treatment in covid time
(Source: internet)

ACKNOWLEDGEMENT

Thank you editors, colleagues and brothers to assist this publishing.

CONFLICTS OF INTEREST

Authors declare no conflict of interest.

REFERENCES

- Dat, P.M., Mau, N.D., Loan, B.T.T., & Huy, D.T.N. (2020). Comparative China Corporate Governance Standards After Financial Crisis, Corporate Scandals and Manipulation, *Journal of Security and Sustainability Issues*, 9(3). DOI:10.9770/jssi.2020.9.3(18).
- Carlotta, P. (2019). Innovative approaches for cancer treatment: current perspectives and new challenges, *Ecancermedicalscience*. 2019; 13: 961. doi: 10.3332/ecancer.2019.961.
- DTN Huy. (2015). THE CRITICAL ANALYSIS OF LIMITED SOUTH ASIAN CORPORATE GOVERNANCE STANDARDS AFTER FINANCIAL CRISIS, *International Journal for Quality Research* 9 (4).
- DTN Huy, DTN Hien. (2010). The backbone of European corporate governance standards after financial crisis, corporate scandals and manipulation, *Economic and business review* 12 (4).
- Dagogo-Jack I, Shaw AT. Tumour heterogeneity and resistance to cancer therapies. *Nat Rev Clin Oncol*. 2018; 15(2): 81–94. doi: 10.1038/nrclinonc.2017.166.
- DT Tinh, NT Thuy, DT Ngoc Huy. (2021). Doing Business Research and Teaching Methodology for Undergraduate, Postgraduate and Doctoral Students-Case in Various Markets Including Vietnam, *Elementary education Online* 20 (1).
- Debela, D.T. (2021). New approaches and procedures for cancer treatment: Current perspectives, *SAGE Open Med*. 2021; 9: 20503121211034366. doi: 10.1177/20503121211034366.
- EI-Readi MZ, Althubiti MA. Cancer nanomedicine: a new era of successful targeted therapy. *J Nanomater* 2019; 2019: 4927312.
- Hac LD, DTN Huy, NN Thach, BM Chuyen, PTH Nhung, DT Tran, TA

- Tran. (2021). Enhancing risk management culture for sustainable growth of Asia commercial bank-ACB in Vietnam under mixed effects of macro factors, *Entrepreneurship and Sustainability Issues* 8 (3).
- Huy, D.T.N., & Hien, D.T.N. (2010). The backbone of European corporate governance standards after financial crisis, corporate scandals and manipulation, *Economic and Business Review*, 12(4).
- Meo, G. (2008). Curriculum planning for all learners: Applying universal design for learning (UDL) to a high school reading comprehension program. *Preventing School Failure: Alternative Education for Children and Youth*, 52(2), 21-30. doi:10.3200/PSFL.52.2.21-30
- Meyer, A., Rose, D. H., Gordon, D. (2014). *Universal design for learning: Theory and practice*. Wakefield, MA: Center for Applied Special Technology. Retrieved from <http://udltheorypractice.cast.org/login>
- N Thi Hang, D Thi Tinh, DT Ngoc Huy, PT Hong Nhung. (2021). Educating and training labor force Under Covid 19; Impacts to Meet Market Demand in Vietnam during Globalization and Integration Era, *Journal for Educators, Teachers and Trainers*, 12(1).
- NTT Phuong, DTN Huy, P Van Tuan. (2020). The evaluation of impacts of a seven factor model on nvb stock price in commercial banking industry in vietnam-and roles of Disclosure of Accounting Policy In Risk Management, *International Journal of Entrepreneurship* 24, 1-13.
- NN Thach, HT Hanh, DTN Huy, QN Vu. (2021). technology quality management of the industry 4.0 and cybersecurity risk management on current banking activities in emerging markets-the case in Vietnam, *International Journal for Quality Research* 15 (3).
- NN Thach, N Van Bao, DTN Huy, BD Thanh, LTV Nga, TT Ha, NT Binh. (2020). Measuring the Volatility of Market Risk of Vietnam Banking Industry After the Low Inflation Period 2015–2017, *Review of Pacific Basin Financial Markets and Policies* 23 (04).
- Porter, Michael E. 1998. *Competitive Strategy: Techniques for Analyzing Industries and Competitors*. New York: Free Press.
- Pham Thi Bich Ngoc, Dinh Tran Ngoc Huy, Vu Thanh Binh, Pham Thi Hong Nhung and Ngo Huy Hoang. (2021). Extra Analysis of Health Care Policy for Patients with Corona Virus during COVID 19 and with Chronic Heart Failures and Roles of Nurses at Hospitals in Vietnam, *Journal of Pharmaceutical Research International*, 33(47A).
- PM Dat, DTN Huy. (2021). Management Issues in Medical Industry in Vietnam, *Management* 25 (1), 141-154.
- PTB Ngoc, NH Hoang, DTT Hang, DTN Huy, NTM Chinh, VT La. (2020). Evaluating fall prevention for patients at Nam Dinh Hospital in Vietnam, *European Journal of Molecular and Clinical Medicine* 7 (10), 3114-3119.
- TTH Ha, NB Khoa, DTN Huy, VK Nhan, DH Nhung, PT Anh, PK Duy. (2019). Modern corporate governance standards and role of auditing-cases in some Western European countries after financial crisis, corporate scandals and manipulation, *International Journal of Entrepreneurship* 23 (1S).
- TH Le, DTN Huy, NT Le Thi Thanh Huong, SG Hang. (2021). Recognition of user activity with a combined image and accelerometer wearable sensor, *Design Engineering*, 6407-6421.
- Vu Thanh Binh, Dinh Tran Ngoc Huy, Pham Thi Bich Ngoc, Pham Thi Hong Nhung, Dinh Tran Ngoc Hien and Ngo Huy Hoang. (2021). Effective Medicine Treatment for Corona Patients at Home in COVID 19 Pandemic - and Roles of Nurses and Doctors for Heart Failures Treatment, *Journal of Pharmaceutical Research International*, 33(47A).
- VQ Nam, DT Tinh, DTN Huy, TH Le, LTT Huong. (2021). Internet of Things (IoT), Artificial Intelligence (AI) Applications for Various Sectors in Emerging Markets-and Risk Management Information System (RMIS) Issues, *Design Engineering*, 609-618.
- VT Binh, DTN Huy. (2021). Further Analysis on Solution Treatment for Diabetes of Patients at Hospitals in Vietnam, *NeuroQuantology* 19 (8), 88-93.
- VT Binh, DTN Huy. (2021). Further Analysis on Characteristic of Diabetic Reinopathy-A Case in Thai Binh Province in Vietnam, *NeuroQuantology* 19 (6), 61-67.
- World Health Organization, *Projections of Mortality and Causes of Death, 2016 to 2060*, World Health Organization, Geneva, Switzerland, 2020, http://www.who.int/healthinfo/global_burden_disease/projections/en/.
- Y. Inagaki, K. Shiraki, K. Sugimoto et al. (2016). Epigenetic regulation of proliferation and invasion in hepatocellular carcinoma cells by CBP/p300 histone acetyltransferase activity, *International Journal of Oncology*, vol. 48, no. 2, pp. 533–540.
- Yip et al. (2019). Putting patients first: an inventive service delivering cancer treatment at home, *Journal of comparative effectiveness research*, 8(12).