Long Term Follow up of Patients with Advanced Cancers after Chemotherapy and Traditional Medicine (82 Cases)

George Zhu

The Institute of Oncology, Tehran University of Medical Science, Tehran

*Corresponding author: George Zhu, The Institute of Oncology, Tehran University of Medical Science, Tehran, Email: sansan4240732@163.com

Abstract

Traditional systems of medicine all over the world even traditional medicine and cancer have been using plants and plants products for therapeutic intention. The purpose of these retrospective trials is to evaluate the clinical efficacy of chemotherapy in conjunction with traditional medicine (TCM) for a broad variety of cancers.

Methods: 82 patients with available cancers were concluded in the study during September 1993 - May 2018. The sex ratio of male: female was 55:27 respectively. The mean age at onset was 46.4 years (range 10 - 79 years). All patients were treated with different dosage of various chemotherapy in combination with TCM or traditional medicine alone. The basic chemotherapeutic regimen consisted of vincristine (VCR, 1 - 2 mg / week), cyclophosphamide (CTX, 200 - 1,000 mg / week), mitomycin C(MMC, 2 - 4 mg / week) and 5-fluorouracil (5-FU, 250 - 500 mg / day). In addition, according to patient condition, the additional drug doxorubicin (ADM, 20 mg / week) in lymphoma and metastatic breast cancer, demethylcantharidin in liver cancer and cisplatin (DDP) or interleukin-2(PHA) or gefitinib in lung cancer. The detail prescription of TCM varied among a broad variety of carcinomas (see full text case reports). The criteria of complete remission (CR) and/or partial remission (PR) is according to the rules where physicians have in common with in clinics.

Results: In 82 cases, the CR was obtained in 37 (45.1%) advanced cancers, a short CR in 13 (15.9%) cases, PR in 26 (31.7%) cancers, Stable disease in 6 cases. In differential types of 20 patients over ten years, lymphoma occupied 8 cases (40%). As to approach to the schedule of drug administration, 11 lymphoma obtained CR via CVP or COMF/COMA (CTX, VCR, MMC, ADM) regimen and TCM or antibiotics and immunotherapy. Five advanced gastric cancer were successfully treated using MFC and cinobufacini / cantharidin, and TCM. In follow up, one HCC accompanied with colon polyps obtained CR via hepatectomy and targeting oncogenic receptor tyrosine kinase inhibitor sorafenib. Among two lung cancers, one female with metastatic lung cancer was given targeting oncogenic receptor EGFR gefitinib therapy after the combination chemotherapy, which was stable disease for 8+ months. CR can also be achieved in one advanced cholangiocarcinoma and one advanced gallbladder cancer through major protocol of TCM and the addition of small dosage of chemotherapy. Two patients the breast has inflamed redness, swelling and an enlarged and firm mass palpable. Cures were obtained through the primary use of traditional medicine with antibiotics regimen. Traditional herbs consisted of taraxacum, honeysuckle, asparagus, cremastra appendiculata, coix lacryma, cordate houttuynia, scutellaria barbate d don, and oldenlandia diffusa roxb. Among those long-term survivors, 34 carcinomas obtained in disease-free survival over 5years, 22 cancers were survival over 10 years, the longest four patients over 25 years.

Conclusion: In this study, I experienced that a CR was a pivotal influencing factor in those longest survival patients, and traditional medicine was also recommended. Down regulating oncogenic receptors may be useful paradigm and perspective in currently the third line setting of clinical target therapy and in rendering our better understanding of cancer biology

Keywords: Cancer chemotherapy; Traditional medicine; Target therapy


Copyright: © 2018 Zhu, G. This is an Open access article distributed under the terms of Creative Commons Attribution 4.0 International License.

www.ommegaonline.org Vol 3:1 pp 13/21
Introduction

Chemotherapy is a major skillful of cancer therapy, one of the most important advances in oncology has been increased acceptance of evidence that most patients with disseminated tumors were settled to the protocol of chemotherapy in conjunction with recent targeting oncogenic receptor\(^\text{[1-20]}\), traditional medicine (TCM) and/or adoptive immunotherapy (LAK cells, TIL therapy)\(^\text{[21,22]}\). The experience in Ugandan children with Hodgkin’s disease has been excellent\(^\text{[23]}\) and in a study of 14 adults with stage I and II Hodgkin’s disease, mostly clinically staged, 13 patients (93%) achieved CR with combination chemotherapy and all were in CR 11 to 94 months after the completion of treatment\(^\text{[23]}\). Another, a disease-free survivors of 5 years (56.5 - 59.3% versus 22 - 24.3%) and 10 years (48.9%) was remarkably higher rate in those breast cancers with stage III following surgery plus chemotherapy than only surgery. More promising, in large trials of 48 HER, - positive early breast cancer patients, targeting the adjuvant trastuzumab treatment demonstrated highly favorable outcome. Five year overall survival rates and disease-free survival rates were 95.8% and 93.8% respectively.\(^\text{[23]}\) Recently, neratinib was recently approved by FDA for extended adjuvant treatment of ER+ / HER2+ breast cancer\(^\text{[29]}\). Others advanced or metastatic gastric cancer constitutes the majority of patients in clinical practice. Systemic chemotherapies and combined regimens are currently available, provides palliation and prolongs survival. In particular, high-quality clinical trials on TCM in cancer are generally lacking, except for Kampo medicines were settled to the protocol of chemotherapy in conjunction with recent targeting oncogenic receptor\(^\text{[1-20]}\). The criterion of complete remission (CR) and/or partial remission (PR) is according to the rules where physicians have in common with in clinics. Complete remission (CR): there was no no more tumor or tumor complete regressed in patients for at least 1 month; Partial remission: the tumor decreased by more than 50% in patients for at least 1 month; Stable disease: the tumor decreased by less than 50% or increased by no more than 25% in patients; Disease progression: the tumor increased by more than 25% in patients, or new lesions emerged. The efficacy was evaluated according to the survival time from the day when patients were at onset. The clinical data for liver cancer\(^\text{[31,32]}\) and lung cancer\(^\text{[33,34]}\) were previously described.

Material and Methods

82 patients with available cancers were concluded in the study during September 1993- May 2018. The sex ratio of male: female was 55: 27 respectively. The mean age at onset was 46.4 years ranging from 10 to 79 years. Among age distribution, although there is some uncertain about the type distribution of cancers, it was found 38.1 years as the mean age at onset for lymphoma; 44.0 years for liver cancer, while higher mean age at 60.1 years has been shown in lung cancer in this group. The clinical diagnoses in a broad variety of carcinomas consisted of metastatic nasopharyngeal cancer 5 cases, metastatic breast cancer 4, inflammatory breast tumor 2, lung tumors 12, hepatocellular carcinoma (HCC) 12, stomach cancer 5, hematological malignancies 27 cases (acute leukemias FAB M1 type 2, M2 type 1, acute promyelocytic leukemia 1, chronic myeloid leukemia CML 2, chronic lymphocytic leukemia CLL 1, refractory anemia 1, multiple myeloma 2, lymphoma 16), thyroid cancer 2, maxillary sinus carcinoma 1, carcinoma of mandibular sinus 2, laryngeal carcinoma 1, esophagus cancer 1, gallbladder cancer 1, cholangiocarcinoma 1, metastatic oral cancer 1, epidermoid carcinoma 1, metastatic melanoma 1, relapsed vulvar cancer 1, and other metastatic sternal and spinal (T12) tumor 1, myxoid chondrosarcoma 1 (figure 1) respectively. all other benign neoplasias were not statistically included. The basic chemotherapeutic regimen consisted of vincristine (VCR, 1-2 mg / wk), cyclophosphamide (CTX, 200 - 1,000 mg / wk), mitomycin C (MMC, 2 - 4 mg / wk) and 5-fluorouracil (5-FU, 250 - 500 mg / day). In addition, the additional drug adriamycin (ADM, 20 mg / wk) in lymphoma and metastatic breast cancer, demethylcantharidin in liver cancer and cisplatin (DDP) or interleukin-2 (PHA) / gefitinib in lung cancer. The detail prescription of TCM varied among a broad variety of carcinomas (see full text case reports). The criteria of complete remission (CR) and/or partial remission (PR) is according to the rules where physicians have in common with in clinics. Complete remission (CR): there was no no more tumor or tumor complete regressed in patients for at least 1 month; Partial remission: the tumor decreased by more than 50% in patients for at least 1 month; Stable disease: the tumor decreased by less than 50% or increased by no more than 25% in patients; Disease progression: the tumor increased by more than 25% in patients, or new lesions emerged. The efficacy was evaluated according to the survival time from the day when patients were at onset. The clinical data for liver cancer\(^\text{[31,32]}\) and lung cancer\(^\text{[33,34]}\) were previously described.

Figure 1: A patient with myxoid chondrosarcoma. A biopsy specimen stain: CK - S-100+ EMA - Ki-67 -50 %

Results

In 82 cancers, the rate of complete remission(CR) was achieved in 37 (45.1%) advanced cancers. All CR patients with advanced cancers was survival over 5 years, 18 cancers was survival 10 years. Another, a short CR was obtained in 13 (15.9%) advanced cancers, the survival time varied from 20 months to 4 years. PR was obtained in 26 (31.7%) patients with a broad variety of carcinoma, while three patients (1 malignant lymphoma, 1 carcinoma of mandibular sinus, 1 metastatic tumor of bone) had survival 12, 18+ and 11+ years respectively, implicating a longer survivor in patients the survival with tumours. Otherwise, stable disease was 6 cases. Basic characteristics of studied population were summarized in table 1.
Advanced Cancers after Chemotherapy

Zhu, G.

During the schedule of drug administration, all patients were treated with the different dosage of 1 to 4 courses of various combination chemotherapy in conjunction with traditional medicine. In statistically analysis, one patient with nasopharyngeal cancer, the diplopia and unable version in his eye were recovered to “normal” visual acuity following the combination chemotherapy of VCMF(VCR, CTX, MMC, 5-FU) plus traditional medicine. A patient with rodent ulcer (8 x 5 cm) once obtained complete response as to an approach of 5% Fu of retinoic acid ointment. A short CR was achieved by the protocol of MFC(MMC; 5-Fu; Ara-C / homoharringtonine, CTX) plus cantharidin or cinobufacini drug in 5 advanced gastric cancers. One of them was a long-term survivor for 6 years via mass incision and the combination of MFC with herbs *Scutellaria barbata d.don*.

In view of cancer types, 10 lymphoma was setted to the major protocol of the combination conventional chemotherapy-(COMF, CTX, VCR, MMC, 5-FU; COMA, CTX, VCR, MMC or ADM) in conjunction with traditional medicine which to relieve

### Table 1: Patient’s characteristics.

<table>
<thead>
<tr>
<th>Cancer types</th>
<th>Cases No</th>
<th>Sex</th>
<th>Mean ages (years)</th>
<th>Treatment Protocol</th>
<th>Response following therapy</th>
<th>Duration of remission (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>lymphoma</strong></td>
<td>17</td>
<td>M_14, F_2</td>
<td>38.1(13-66)</td>
<td>CVP or COMA(11)<em>, Radiotherapy”</em>(1), prednisone(1), Immunotherapy(4)</td>
<td>CR(10)*, short CR(2), PR(5)</td>
<td>1 3 2 1 9</td>
</tr>
<tr>
<td><strong>HCC</strong></td>
<td>12</td>
<td>M_10, F_2</td>
<td>44.0(26-63)</td>
<td>a. 5-Fu (250-1,000 mg/day), VCR,CTX, MMC,TCM b. Cantharidin, TCM c. hepectomy, sorafenib</td>
<td>CR(8), Short CR(2), PR(1), stable disease(1)</td>
<td>1 4 1 3 3</td>
</tr>
<tr>
<td><strong>Lung tumors</strong></td>
<td>12</td>
<td>M_8, F_4</td>
<td>60.1(40-79)</td>
<td>a. COMF, TCM; b. DDP, etoposide, gefitinib c. CTX, 5-FU, antitumor capsule; d. TCM alone</td>
<td>CR(2), short CR(3), PR(3), stable disease(5)</td>
<td>4 3 3 1</td>
</tr>
<tr>
<td><strong>NPC</strong></td>
<td>5</td>
<td>M_5, F_2</td>
<td>51.4(38-75)</td>
<td>a. VCMF,TCM b. CTX, 5-FU,TCM</td>
<td>CR(1), short CR(1), PR(3)</td>
<td>1 3 1</td>
</tr>
<tr>
<td><strong>MBC</strong></td>
<td>4</td>
<td>F_4</td>
<td>31.3(25-41)</td>
<td>a. COMF, TCM b. COP, TCM</td>
<td>CR(3), PR(1)</td>
<td>1 2</td>
</tr>
<tr>
<td><strong>IBT</strong></td>
<td>2</td>
<td>F_1</td>
<td>31.35</td>
<td>Antibiotics, TCM</td>
<td>CR(2)</td>
<td>2</td>
</tr>
<tr>
<td><strong>Stomach cancer</strong></td>
<td>5</td>
<td>M_2, F_3</td>
<td>42.3(35-50)</td>
<td>a. MFC, TCM; b. CTX, 5-FU, antitumor capsule</td>
<td>CR(1), short CR(2), PR(2)</td>
<td>1 3 1</td>
</tr>
<tr>
<td><strong>AML</strong></td>
<td>3</td>
<td>M_3, F_1</td>
<td>4,18,20</td>
<td>DA**, HA,TCM</td>
<td>PR(3)</td>
<td>3</td>
</tr>
<tr>
<td><strong>APL</strong></td>
<td>1</td>
<td>M_31</td>
<td>ATRA 80 mg/day; H 1 mg x 5 days; TCM</td>
<td>CR</td>
<td>1 died of relapsed APL</td>
<td></td>
</tr>
<tr>
<td><strong>CML</strong></td>
<td>2</td>
<td>M_3, F_1</td>
<td>33.62</td>
<td>Busulfian, TCM</td>
<td>CR(1), short CR(1)</td>
<td>1 1</td>
</tr>
<tr>
<td><strong>CLL</strong></td>
<td>1</td>
<td>M_58</td>
<td>Chlorambucil, TCM</td>
<td>CR</td>
<td>1 died of stomach cancer</td>
<td></td>
</tr>
<tr>
<td><strong>RA</strong></td>
<td>1</td>
<td>M_43</td>
<td>Vitamin B_{12}, folate acid, TCM</td>
<td>CR</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>MM</strong></td>
<td>2</td>
<td>M_60, F_63</td>
<td>Thalidomide, pred, TCM</td>
<td>Short CR(1), PR(1)</td>
<td>1 1</td>
<td></td>
</tr>
<tr>
<td><strong>Epidermoid cancer</strong></td>
<td>1</td>
<td>F_72</td>
<td>5 % FU of retinoic acid ointment</td>
<td>PR</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Thyroid cancer</strong></td>
<td>2</td>
<td>F_54,60</td>
<td>TCM alone</td>
<td>CR(2)</td>
<td>1 1</td>
<td></td>
</tr>
<tr>
<td><strong>bile cancer</strong></td>
<td>1</td>
<td>F_65</td>
<td>CTX, 5-FU, TCM</td>
<td>CR</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Cholangio-carcinoma</strong></td>
<td>1</td>
<td>M_72</td>
<td>MFC (MMC, 5-FU, CTX), TCM</td>
<td>CR</td>
<td>1 died of intestinal cancer</td>
<td></td>
</tr>
<tr>
<td><strong>Others</strong>*</td>
<td>10</td>
<td>M_5, F_2</td>
<td>57.5(44-69)</td>
<td>COFP, COMMB, TCM</td>
<td>CR(2), short CR(2), PR(6)</td>
<td>3 2 1 3</td>
</tr>
</tbody>
</table>

Note: HCC: hepatocellular carcinoma; NPC: metastatic nasopharyngeal cancer; MBC: metastatic breast cancer; IBT: inflammatory breast tumor; AML: acute myeloid leukemia; APL: acute promyelocytic leukemia; CML: chronic myeloid leukemia; RA: refractory anemia; MM: multiple myeloma; COMA: CTX,VCR,MMC,ADM; COMF:CTX,VCR,MMC/ADM,5-FU; VCMF:VCR,CTX,MMC/DDP, 5-FU; COP:CTX,VCR,pred; COFP:CTX,VCR,PHA, Pred; DA:DNDR,45mg/m2, Ara-c 100mg/m2; HA: homoharringtonine 1mg x 5days, ara-c 50 mg, intramuscle, twice a day; MFC:MMC,5-FU, Ara-c / H,CTX; COMMB: CTX, VCR, MMC, MTX, Bleomycin; ATRA: all-trans retinoic acid; Pred: prednisone; TCM: traditional medicine; M: male; F: female: *cases number; **:treatment in another hospital; ***:include oral cancer 1, metastatic melanoma 1, relapsed vulva cancer 1, laryngeal cancer 1, esophagus cancer 1, maxillary sinus carcinoma 1, carcinoma of mandibular sinus 2, and metastatic bone tumor 2.

During the schedule of drug administration, all patients were treated with the different dosage of 1 to 4 courses of various combination chemotherapy in conjunction with traditional medicine. In statistically analysis, one patient with nasopharyngeal cancer, the diplopia and unable version in his eye were recovered to “normal” visual acuity following the combination chemotherapy of VCMF(VCR, CTX, MMC and 5-FU) plus traditional medicine. A patient with rodent ulcer (8 x 5 cm) once obtained complete response as to an approach of 5% Fu of retinoic acid ointment. A short CR was achieved by the protocol of MFC(MMC; 5-Fu; Ara-C / homoharringtonine, CTX) plus cantharidin or cinobufacini drug in 5 advanced gastric cancers. One of them was a long-term survivor for 6 years via mass incision and the combination of MFC with herbs *Scutellaria barbata d.don*. In view of cancer types, 10 lymphoma was setted to the major protocol of the combination conventional chemotherapy-(COMF, CTX, VCR, MMC, 5-FU; COMA, CTX, VCR, MMC or ADM) in conjunction with traditional medicine which to relieve
the chemotherapeutic toxicity, and reinforced the efficacy of chemotherapy. One lymphoma was regressed only by prednisone(200 #). Another 4 patients with thumb lymphadenopathy was treated by the use of antibiotics regimen in full dose with anti-inflammatory herbal tablets or immunotherapy lymphocyte transfer factor. In 12 HCC, 6 HCC were treated mainly by 5-FU (500 - 1000 mg / day) and TCM. 2 patients obtained CR through cantharidin and traditional medicine. The main protocol of TCM with adjuvant antibiotics regimen and low dose of dexamethasone was given in a primary liver cancer (AFP+, ascites +++, jaundice +++, liver tumor 3.2 x 3.0 cm). One acute promyelocytic leukemia complicated with metastatic liver cancer (7 x 4.5 cm) was in CR with all-trans retinoic acid (ATRA) and TCM. The detail prescription of TCM was mentioned before[25,26]. In the follow up, one HCC accompanied with colon polytans obtained complete remission via hepatectomy and targeting oncogenic receptor tyrosine kinase inhibitor sorafenib. Dose intensity has proven to be critical in maximizing chemotherapeutic efficacy for numerous human cancers. Eight other patients with cancers were in remission through small dosage of chemotherapy and TCM or traditional medicine (TCM) alone. There were 4 lung cancers, 1 gallbladder cancer, 1 cholangiocarcinoma and 2 thyroid cancers. Among targeting two metastatic lung cancers, one female with lung cancer was given the combination chemotherapy plus targeting oncogenic receptor EGFRVIII gefitinib, which was stable disease for 8+ months. Thyroid cancer was placed on the primary use of traditional medicine. The crude herbs consisted of sargassum, tangle, Oyster (mussels), Poriacocus, Ophiopogon japonicus, Prunella vulgaris, Taraxacum, Scrophularia ningpoensis, Cremastrea appendiculata, Trichosantes Kirilowii, Sophora subprostrata, Houttuynia cordata, Scutellaria barbata d. don and Oldenlandia diffusa roxb.

A novel approach to the study of traditional medicine antitumor capsule was treated in 8 patients with advanced cancers. The initial results of antitumor capsule is an effective benefit to cancer treatment especially brain tumors through down regulation of inflammation, attenuated pain symptom and blocking convulsion. EGFR+++ was found in one glioma. This adjuvant agent is undergoing to clinical trials.

The survival times in those patients with remission were less than 1 years 10 cases, 1 to 3 years 22 cases, over 3 to 5 years 12 cases, over 5 to 10 years 12 cases, over 10 to 20 years 15 cases, and over 20 years 7 cases. In differential types of 20 patients with over 10 year’s survivors, lymphoma occupied 8 cases(40%). Among 7 patients with over 20 years, lymphoma occupied 3 cases, metastatic breast cancer 2 cases and hepatocellular carcinoma 2 cases.

Discussion

In this study, a series of the long follow up of patients with cancers were reported. I experienced that a CR was a pivotal influencing factor in those longest survival patients, and traditional medicine was also recommended. The traditional combination chemotherapy program for lymphomas of favorable histologic type has been CVP (CTX, VCR, Pred) given at 21-days intervals[33]. Cyclophosphamide, vincristine, procarbazine, and prednisone (COPP) were used in the NCI study for patients with nodular mixed and nodular histocytic lymphomas[36]. More intensive CVP programs with the addition of adriamycin or bleomycin, or both, known as BACOP or CHO-8 bleo, resulted in overall complete remission rates for patients with diffuse lymphomas ranging from 48% to 89%[37-40]. The NCI program of this 5-drug program, complete remission rates with this approaches has ranged from 48% to 94%[39]. In this study, the CR rates was 63% in 16 lymphomas, 6 CR were used by CVP or COMA regimens.

The use of chemotherapy to treat stomach cancer has no firmly established standard of care[41]. Some drugs used in stomach cancer treatment have included; 5-FU (fluorouracil), doxorubicin (adriamycin), mitomycin C and most recently oxalplatin, irinotecan in various combination. The relative benefits of these different drugs, alone or in combination, are unclear[42]. There are evidence supporting that clinical researches are exploring the benefits of giving chemotherapy as adjuvant therapy for surgery to destroy remaining cancer cells[43]. In recent analyses of definitive surgery followed by adjuvant radio chemotherapy (5-FU / leucovorin LV regimens) for patients with gastric cancer, Liu and Ahmed[44] reported that 59.3% (48 / 81) patients survived > 3 years, 18.5% (15 / 81) patients survived 5 or more years. Eighteen out of 81 (22.2%) patients are still alive with a medium survival of 142 months (57 - 196 months). In this study, 5 patients with gastric cancer obtained a short CR through MFC regimen plus cinobufacini and cantharidin drugs. One relapsed gastric cancer survived over 6 years after surgery and adjuvant chemotherapy. More recent, treatment with HER2 inhibitor, trastuzumab, has been demonstrated to improve overall survival in inoperable locally advanced or metastatic gastric carcinoma overexpressing the HER,43. Oncogenic receptor HER[45] is over expressed in 13 - 22% of patients with gastric cancer[46,47]. Tanz and colleagues[48] reported two HER2+ - positive metastatic gastric adenocarcinoma who favorably responded to second line chemotherapy (FOLFIRI, irinotecan plus 5-Fu) with trastuzumab continuation following progressive disease to first line treatment containing trastuzumab, implicating trastuzumab continuation in metastatic HER positive gastric cancer is safe, practical and improve survival.

Oncogenic EGFR mutations are found in 10% to 35% of lung adenocarcinomas, with predominants in a subset of patients with non-small cell lung cancer (NSCLC)[49,53]. These mutations, which commonly occur as either small in-frame deletions in exon 19 or point mutations T790M or L858R in exon 21 within the EGFR tyrosine kinase domain, confer constitutive activity and sensitivity to EGFR tyrosine kinase inhibitor (TKI)[55,56]. Konduri and colleagues[57] reported five patients with metastatic lung cancer whose tumors harbored EGFR fusion, most commonly RAD5, are recurrent in lung cancer. Four of whom were treated with EGFR TKI erlotinib with documented antitumor response for 5, 6, 8, and 20 months respectively. An early EGFR TKI trial randomized patients with EGFR mutation positive stage IIIb or IV adenocarcinoma to treatment with afatinib or gemicitabine and cisplatin, treatment with afatinib prolonged progression free survival to 11.0 months as opposed to 5.6 months with gemicitabine and cisplatin[57]. In a total of 65 lung cancers with EGFR- mut (exon19 del / L858R, no T790M), after INC 280 plus gefitinib, partial remission (PRs) were obtained in 12 / 65 evaluable patients (ORR 18%) and 40 / 65 (62%) patients had stable disease[59]. Central nervous system (CNS) metastases are common in patients with non-small-cell lung cancer (NSCLC). Osimertinib has shown systemic efficacy in
patients with CNS metastases, and early clinical evidence shows efficacy in the CNS. In the phase II trials of 50 patients with T790M-positive advanced NSCLC, confirmed CNS ORR (objective response rate) and DCR (disease control rate) were 54% (27 / 50) and 92% (46 / 50) respectively. Median follow-up for CNS PFS (progression-free survival) was 11 months. Osimertinib (80 mg) demonstrated clinically meaningful efficacy against CNS metastases[99]. In the phase III trial of 419 patients with advanced T790M positive NSCLC with osimertinib vs platinum based therapy, progression free survival in the osimertinib group was 8.5 months, compared to the platinum-based therapy group at 4.2 months[99]. Otherwise, targeting oncogenic ALK inhibitors Crizotinib (250 mg, twice a day)[99], and Alectinib (600 mg, orally twice daily, second-generation ALK inhibitor, better efficacy and better tolerability) also prevented lung cancer progression and delayed the time to brain metastases according to the results of the phase III ALEX trial presented at the 2017 ASCO Annual Meeting[61]. Serra[62] reported the clinical response of a lapa
tinib-based therapy in lung metastatic lesions of a Li-Fraumeni syndrome patient with oncogenic HERV659E mutation and an EGFR-exon 20 insertion. A symptomatic and radiologic clinical response was achieved using oral daily lapa
tinib at a dose of 1,000 mg in combination with intravenous weekly paclitaxel 80 mg / m², lately, trastuzumab initial dose of 8 mg / kg intrave
rously, and then followed by 6 mg / kg every three weeks. In total, the clinical benefits lasted over 9 months. In Cuba, Ci
Mav-X-EGF, prompting, an active vaccine targeting EGF as the major ligand of oncogenic EGFR, it is in use as a cancer therapy against non-small cell lung cancer (NSCLC)[63,64]. In this study, we use gefitinib in keeping stable disease for 8+ months in a woman with lung adenocarcinoma, and using gefitinib in more patients is under investigation.

Interesting, in an APL complicated with secondary HCC, it has been demonstrated previously that nuclear RARB has been shown to be rearranged as a result of insertion of HBV HCC, it has been demonstrated previously that nuclear RARB is under investigation. A woman with lung adenocarcinoma, and using gefitinib in more patients is under investigation.

In this study, we use gefitinib in keeping stable disease for 8+ months in a woman with lung adenocarcinoma, and using gefitinib in more patients is under investigation.

Interesting, in an APL complicated with secondary HCC, it has been demonstrated previously that nuclear RARB has been shown to be rearranged as a result of insertion of HBV HCC, it has been demonstrated previously that nuclear RARB has been shown to be rearranged as a result of insertion of HBV. In APL complicated with secondary HCC, it has been demonstrated previously that nuclear RARB has been shown to be rearranged as a result of insertion of HBV. 

As an example, in patients with previously treated advanced

References


Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Pubmed| Crossref| Others
Advanced Cancers after Chemotherapy


Advanced Cancers after Chemotherapy

Zhu, G.


