Case Report

Completely Disappear of Giant Lung Metastases of Pancreatic Cancer Treated with Gemcitabine and Oxaliplatin Chemotherapy: A Case Report

Yu Yuan¹ and Ren Cheng Sun²*

¹Department of Internal Medicine-Oncology, People’s Hospital of Wei Fang, Shan Dong province, P.R China
²Department of Surgical Oncology, Wei Fang Traditional Chinese Hospital, Shan Dong province, P.R China

Abstract

Pancreatic cancer is one of the most lethal cancers, most patients (80%) were diagnosed as inoperable advanced pancreatic cancer at the first time, and over 60% patients received operation relapsed within 2 years. Chemotherapy remains the main treatment for inoperable advanced or recurrent pancreatic cancer. Even though, gemcitabine and oxaliplatin was approved as a first-line therapy for advanced pancreatic cancer, their effect is unsatisfactory, especially for cases with distant metastases. In this paper, we report a case of lung metastases of pancreatic cancer showed complete response (CR) after received gemcitabine and oxaliplatin chemotherapy. This patient has a 9.5 cm × 9 cm × 7.5 cm size mass in right lung, three years after whipple procedure for pancreatic cancer. Then, the lung metastases disappeared completely, after 6 cycles of GEMOX. The result of this case report hints us GEMOX was a better choice for metastatic pancreatic cancer than other combination chemotherapy, especially for patients with distant metastasis to lung.

Keywords: Pancreatic cancer; Gemcitabine; Oxaliplatin

Introduction

Pancreatic cancer is one of the most lethal cancers, locally advanced cases have a median survival time range from 8 months to 12 months, only 3 months to 6 months [1] for cases with distant metastasis. Even though complete surgical resection is the most effective treatment, less than twenty percent of pancreatic cancers have surgical indication, again more than sixty percent of resected pancreatic cancers recurred within 2 years. To date, chemotherapy with or without radiotherapy is still the mainly therapy for these inoperable advanced or recurrent cases.

As all know, recurrence of pancreatic cancer behaves as local recurrence and metastases. The metastases can arise in any organ site but mostly in abdominal sites. In an autopsy series, liver was founded to be the most common metastasis site, followed by peritoneum and lung. In the past, the incidence of recurrence in lung was considered to be 1% to 2%, however, the incidence was 13.6% in a more recent study, due to the more frequent use of CT scanning on chest. Pancreatic cancer with lung metastases are refractory to chemotherapy generally. Even patients who achieve remission through chemotherapy, the effect tends to be temporary, metastases are hard to eliminate completely, then the course becomes progressively fatal within a short period of time. Here, we report a case of lung metastases of pancreatic cancer that showed complete response (CR) to gemcitabine and oxaliplatin chemotherapy.

Case Report

A 62-year-old man received whipple procedure for pancreatic cancer in 2012 in Shandong University affiliated hospital. The histological type of pancreatic cancer is middle differentiated conducta denocarcinoma, and pathological staging is (T2a N0 M0/Stage 1B). After operation, the patient recovered successfully without any chemotherapy or radiotherapy for pancreatic cancer. Three years later, chest computed tomography (CT) scan on this patient showed a 9.5 cm × 9 cm × 7.5 cm size mass in the right lung (Figures 1 and 2). It was diagnosed as primary central lung cancer at the beginning, finally diagnosed as lung metastases of pancreatic cancer by fiberoptic bronchoscopy and biopsy.

Analysis the condition of the lung metastases and according to the guide line of 2015 NCCN, there was no opportunity to operate and the only effective therapy for this patient is chemotherapy or radiotherapy. Finally, we choose chemotherapy. To date, as we know, gemcitabine

*Corresponding author: Ren Cheng Sun, Department of Surgical Oncology, Wei Fang Traditional Chinese Hospital, Shan Dong province, P.R China, Tel: 0536-8236203; E-mail: sunrencheng@126.com

Received May 08, 2017; Accepted June 15, 2017; Published June 22, 2017


Copyright: © 2017 Yuan Y, et al. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.
human interleukin 11 for injection. Because of the serious bone marrow suppression during the sixth cycle, we change GEMOX to Gemcitabine single drug chemotherapy for the seventh and eighth cycle. At the end of eighth cycle, this patient occurred meningeal metastases in June 2, 2016 and died in July 2016 in short time received optimum supportive therapy.

Discussion

Most patients (80%) present with inoperable advanced pancreatic cancer at the first time of diagnosis, and over 60% of patients received operation relapsed within 2 years. Chemotherapy remains the mainly treatment for these inoperable advanced and recurrent pancreatic cancer.

In the past, single agent chemotherapy is the main treatment for advanced pancreatic cancer. However, no single agent can achieve a median survival time longer than 7 months, the response rate of single drug therapy was 0%, 5.4% and 9.5% for 5-FU, capectabine and gemcitabine, respectively [3]. Even though gemcitabine was approved as a first-line therapy for advanced pancreatic cancer, combination chemotherapy was a necessary new alternative in patients with advanced pancreatic cancer, among of those combination chemotherapy, the response rate was 8.6%, 19.1%, 23.0%, 27% and 31.6% for Gemcitabine+erlotinib, Gemcitabine+pectabine, Gemcitabine+nab-paclitaxel, FOLFIRINOX, GEMO [4] respectively. So FOLFIRINOX and GEMOX combination chemotherapy was a better choice for advanced and metastatic pancreatic cancer.

Generally, pancreatic cancer with distant metastasis is refractory to chemotherapy, and the complete response (CR) is a rare event. In the ACCORD 11 trial, there was only one complete response among the 171 patients with metastatic pancreatic cancer who received FOLFIRINOX (0.6%) [5], there was no complete response case in gemcitabine alone group. In Baize N [6] research, there were 4 complete response cases among 32 patients with metastatic or unresectable locally-advanced pancreatic cancer received GEMOX. In S.R. Alberts research, there were one complete response case among 18 patients with metastatic pancreatic cancer received GEMOX.

In this case report, with the maximum diameter of lung metastasis of pancreatic cancer 9.5 cm is rare, and the rarer is completely disappear of this metastasis, after six cycle GEMOX chemotherapy.

Conclusion

In summary, the result of this case report and those researches hint us GEMOX was a better choice for metastatic pancreatic cancer than other combination chemotherapy, especially for patients with distant metastasis to lung.

References