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http://dx.doi.org/10.4172/ipijdd.100020

Vol. 2 No. 1:20

# Multidisciplinary Treatment of Gastric Cancer, Results in Ten Year Experience of a Brazilian **Center: Southern Trial**

# Weston AC<sup>1</sup>, Giordani D<sup>1</sup>, Cereser C<sup>1</sup>, Menguer R<sup>1</sup>, Laporte G<sup>1</sup>, Roth A<sup>1</sup>, Albrecht B<sup>1</sup>, Assumpção J<sup>2</sup> and Weschenfelder R<sup>3</sup>

1 Santa Casa de Porto Alegre, Brasil

2 Universidade Luterana do, Brasil 3 Hospital Moinhos de Vento, Brasil

# Summary

Gastric Adenocarcinoma remains one of the leading worldwide causes of cancer. Despite the improvement in the surgical techniques the results of a surgery as a single treatment remains poor.

Since 2001 the multidisciplinary and oncological approach has been indicated to gastric adenocarcinomas showing better results.

A total of 422 patients were divided in two arms, 245 were treated with surgery plus adjuvant or neodajuvant therapy and 147 with surgery alone.

In conclusion the result was a significant better overall survive in 5 year in the arm of the multidisciplinary approach.

**■** drweston@terra.com.br

Medical Director of the Medical Residency in General Surgery of Santa Casa de Porto Alegre, Brazil.

Corresponding author: Antonio C Weston

Received: January 22, 2016; Accepted: February 15, 2016; Published: February 22,

Citation: Weston AC, Giordani D, Cereser C, et al. Multidisciplinary Treatment of Gastric Cancer, Results in Ten Year Experience of a Brazilian Center: Southern Trial. Int J Dig Dis. 2016. 2:1.

# Introduction

2016

Gastric Cancer is still one of the leading causes of death in the world. According to the National Institute of Cancer, 20.000 new cases are expected to be diagnosed in Brazil in 2016, and it will be the fifth leading cause of Cancer death due to the high mortality of this disease [1].

In recent years, we have seen a decline of the incidence of tumors in the lower part of the Stomach. However, tumors located in the upper part of the Stomach and Cardia is increasing.

Since 2005 we have started a study based on the SWOG 116 protocol of Mac Donald proposing an adjuvant treatment of resected lesion [2]. In 2007 we have extended this protocol to upper tumors proposing a neo adjuvant treatment according to the proposal of the Magic Trial [3].

The aim of this study is to verify the impact of the multidisciplinary approach in the overall survival of the patients and the pitfalls of this approach.

This study was submitted and approved by the Ethical Committee of Santa Casa de Porto Alegre.

#### Patients and Methods

Since 2005 we were able to include 467 patients diagnosed with Gastric Adenocarcinoma in the study.

Male patients were 321 and female patients were 146, the same distribution between genders we see in the literature. The ages ranged from 27 to 84 with a median age of 59 years old.

Most of the patients, 278, had tumor of the lower part of the stomach. The patients diagnosed with Cardia and the upper part tumor was 98. The remaining patients, 91, were diagnosed with tumors in the median part of the stomach as we see in Chart 1

As a routine we underwent a staging video laparoscopy before the definitive treatment. We excluded or lost 45 patients due to difficulties in follow-up, remaining a total of 422 cases. Patients who were able to be resected in the R0 mode in the lower and median part of the stomach were headed to adjuvant chemotherapy with 5 -Fluororacil plus Leucovorin followed by radiotherapy. Patients with tumors in the upper part of the stomach were referred to neoadjuvant chemotherapy with Cysplatin and 5-Fu, 4 sessions.

A total of 245 patients were eligible to adjuvant or neoadjuvant therapy and 147 were referred to surgery as a single treatment. The distribution of ages, gender and stages between the two groups were similar.

#### Results

From the total number of cases, 67 (13%) were excluded due to any kind of intolerance or major toxicity.

Adverse effects we have seen are:

- 1) Severe mucositis 86 cases (25%)
- 2) Febrile leucopenia- 34 cases (9%)
- 3) Gastrointestinal Bleeding 15 cases (3%)
- 4) Sepsis -12 cases (2, 8%)
- 5) Mortality 3 cases (0, 9%)

Adverse effects of the Multidisciplinary approach as we can see in **Chart 2** 

The overall survival was 57% in 5 years in the surgery isolated arm and 75% in the multidisciplinary treatment arm. These results had a statistically significant difference (0.05) as we can see in **Chart 3** 

## **Discussion**

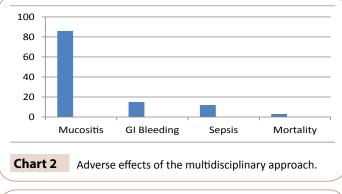
Since 2001 when McDonalds et al published their Intergroup protocol we observed a worldwide trend indicating a multidisciplinary approach as a standard treatment. However, despite the positive results for this kind of approach, we observed many pitfalls due to the toxicity caused by these schemas [3-5]

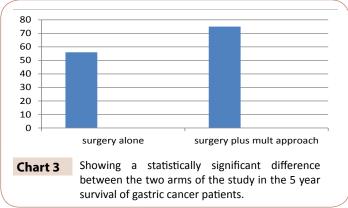
We were able to decrease toxicity after we started nourishing our patients better before surgery with a routine supplementary diet based on protein and extra calorie support [6]

In 2006 the Magic Trial proposed a neo adjuvant treatment addressed to gastro esophageal tumors as a better approach and we were able to detect the same in our patients.

This trend was confirmed in 2011 in the Cross trial when a better overall survival was achieved in patients submitted to multidisciplinary treatment [7]

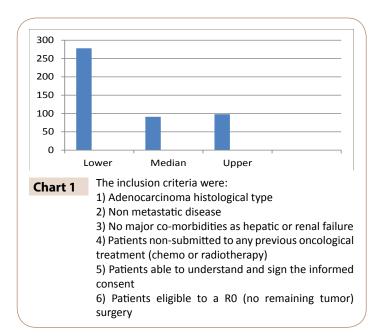
Many other studies as Fazio, Shimada and Kumar came to confirm that results are better despite Geographical differences and social realities of the patients [8-10].





### Conclusion

Gastric adenocarcinoma patients had an increased overall survival with a multidisciplinary approach. Though significant toxicity is observed, it can be diminished if the nutritional status of the patient is optimized.



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