

PANCREATIC ADENOCARCINOMA SCENARIO IN **BRAZIL: A CLINICAL-EPIDEMIOLOGICAL STUDY OF 4915 PATIENTS**

<u>Guaraldi, S (DO); Bergman, A; Thuler, LCS; Albagli, R; Pinto, LFR</u>

Instituto Nacional de Câncer José Alencar Gomes da Silva

PURPOSE

The aim of the study was to evaluate the variables associated with adequate response to treatment of pancreatic adenocarcinoma (PA) at the public health system in Brazil.

| Table 1. Baselin | ne demographics and | clinical characteris | stics o | f study | population |
|------------------|------------------------------------|----------------------|---------|---------|------------|
| (n=4915) | | | | | |
| | Demographic Characteristics | No. of Patients* | % | | |
| | Age, years | | | | |

< 65 years

58.8

METHODS

Data from patients diagnosed as PA registered from 2000 to 2011 were obtained at Integrador system coordinated by Instituto Nacional de Cancer, and from Fundação Oncocentro de São Paulo. Patients without clinical stage information, and with previous cancer or oncological treatment were excluded. Clinical and demographics variables as well as treatment type information were collected. The categorical variables were compared using the chi-square test. Baseline characteristics were included in the univariate logistic regression analysis to identify the association between independent variables and response to treatment with p value <0.05 being considered statistically significant.

| >_65 years | 2025 | 41.2 | |
|----------------------------|------|------|--|
| Gender | | | |
| Male | 2612 | 53.1 | |
| Female | 2303 | 46.9 | |
| Race | | | |
| White | 977 | 72.4 | |
| Non-white | 373 | 27.6 | |
| Marital status | | | |
| No partner | 407 | 32.5 | |
| Partner | 844 | 67.5 | |
| Level of education | | | |
| Less than 8 years of study | 1798 | 53.2 | |
| 8 years of study or more | 1581 | 46,8 | |
| Alcohol drinking | | | |
| Yes | 232 | 26.8 | |
| No or ex-alcohol drinker | 634 | 73.2 | |
| Tobacco smoking | | | |
| Yes | 401 | 43.0 | |
| No or ex-tobacco smoker | 531 | 57.0 | |
| Year of diagnosis | | | |
| 2000-2005 | 1729 | 35.2 | |
| 2006-2011 | 3186 | 64.8 | |
| Histological type | | | |
| Carcinoma | 743 | 15.1 | |
| Adenocarcinoma | 4144 | 84.3 | |
| Cystadenocarcinoma | 28 | 0.6 | |
| TNM Clinical Stage | | | |
| | 307 | 6.2 | |

RESULTS

Among 4915 Brazilian patients, those with age <65yo (58.8%), male gender (53.1%), caucasian ethnic background (72.4%), living with a partner (67.5%), level of education >8ys (53.2%), no or former alcohol drinking (73.2%) or former tobacco smoking (57.0%), and clinical stage IV (66.6%) were predominant. They were diagnosed mainly from 2006 to 2011 (64.8%) – Table 1. There was statistical difference on adequate response according to treatment type (p<0.001) – Table 2. After stratifying by clinical stages, this difference was observed on III (p=0.022) and IV (p=0.047) stages. Adequate response was associated with being younger than 65yo (OR=1.24, 95% CI=1:06-1:45, p=0.008) or having more than 8ys of study (OR=1.36, 95%) CI=1.13-1.64, p=0.001).

| IV | 3275 | 66.6 |
|----|------|------|
| | 708 | 14.4 |
| II | 625 | 12.7 |

*Some totals here are less than totals due to missing values

Table 2. Response classification of pancreatic adenocarcinoma according to the firstcourse cancer treatment (n=3472*)

| Clinical | First course treatment received* | n | n | | | |
|-------------------|--|-----|------------------------|---------------------------|----------------|--|
| Clinical Stage | | | Adequate response** | Inadequate response*** | <i>p</i> value | |
| Stage I | Surgery | 43 | 26 (60.5) | 17 (39.5) | | |
| (n= 241) | Surgery + CTX [@] and/or RTX [#] | 145 | 102 (70.3) | 43 (29.7) | | |
| | RTX | 6 | 5 (83.3) | 1 (16.7) | 0,606 | |
| | RTX + CTX | 5 | 3 (60.0) | 2 (40.0) | ., | |
| | СТХ | 18 | 10 (55.6) | 8 (44.4) | | |
| | Other therapy | 24 | 17 (70.8) | 7 (29.2) | | |
| | Total | 241 | 163 (67.6) | 78 (32.4) | | |
| Stage II | Surgery | 36 | 18 (50.0) | 18 (50.0) | 0.167 | |
| (n= 515) | Surgery + CTX and/or RTX | 359 | 219 (61.0) | 140 (39.0) | | |
| | RTX | 14 | 8 (57.1) | 6 (42.9) | | |
| | RTX + CTX | 17 | 9 (52.9) | 8 (47.1) | | |
| | СТХ | 72 | 32 (44.4) | 40 (55.6) | | |
| | Other therapy | 17 | 10 (58.8) | 7 (41.2) | | |
| | Total | 515 | 296 (57.5) | 219 (42.5) | | |
| Stage III | Surgery | 29 | 12 (41.4) | 17 (58.6) | | |
| (n= 562) | Surgery + CTX and/or RTX | 253 | 117 (46.2) | 136 (53.8) | | |
| | RTX | 32 | 20 (62.5) | 12 (37.5) | 0.022 | |
| | RTX + CTX | 51 | 20 (39.2) | 31 (60.8) | | |
| | СТХ | 176 | 63 (35.8) | 113 (64.2) | | |
| | Other therapy | 21 | 5 (23.8) | 16 (76.2) | | |
| | Total | 562 | 237 (42.2) | 325 (57.8) | | |
| Stage IV | Surgery | 86 | 14 (16.3) | 72 (83.7) | | |
| (n= 2154) | Surgery + CTX and/or RTX | 691 | 164 (23.7) | 527 (76.3) | | |

The two main sources of registry of Brazilian PA patients present certain discrepancy regarding epidemiological data (alcohol and tobacco smoking prevalence). However, they are useful to demonstrate certain variables impacting treatment response, with patients being generally diagnosed with advanced stage, and patients with <65yo and/or > 8ys of study presenting a better chance to respond adequately to cancer treatment.

+ (23.7) 5 (11.1) 40 (88.9) RTX 45 0.047 RTX + CTX22 (21.0) 83 (79.0) 105 1116 204 (18.3) 912 (81.7) CTX Other therapy 24 (21.6) 87 (78.4) 111 2154 433 (20.1) 1721 (79.9) Total 194 70 (36.0) 124 (64.0) **Totals** Surgery (n= 3472) Surgery + CTX and/or RTX 602 (41.6) 846 (58.4) 1448 RTX 38 (39.2) 59 (60.8) 97 < 0.001 178 54 (30.3) 124 (69.7) RTX + CTX309 (22.4) 1073 (77.6) 1382 CTX 56 (32.4) 117 (67.6) Other therapy 173 3472 1129 (32.5) 2343 (67.5) Total

* Some totals here are less than totals due to missing values (1443 patients were excluded because there was no treatment registry); ** Adequate response: partial remission, stable disease, and complete response; *** Inadequate response: progressive disease, relapsed disease or death A p value obtained from Pearson chi-squared test of <0.05 was considered statistically significant.

Projeto Gráfico: Serviço de Edição e Informação Técnico-Científica / INCA

SAÚDE





FUNDING SOURCE

The study was performed with no public or private funding.