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1579-2129/
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The Effect of a Basic Basket on Tuberculosis Treatment Outcome in the Huambo Province, Angola



Angola with logistical support for intervention among populations in critical areas.

Since 2002, after the signing of the peace agreement in Angola,⁷ WFP has developed a humanitarian aid plan for TB patients hospitalized at the Huambo Sanatorium hospital and those who were being treated at the Anti-Tuberculosis Dispensary (ATD) outpatient clinic. This aid lasted 6 years and consisted in the distribution of a basic food basket that patients took home once a month during the outpatient treatment period. Inpatients received the prepared food at the hospital.

The program's implementation had as its purpose increasing the adherence of TB patients to the Directly Observed Treatment (DOT) and improving the success rates of anti-tuberculosis treatment.⁸ Due to lack of funding, WFP was forced to end humanitarian aid in Angola by the end of 2006, ahead of schedule. The government then assumed responsibility for providing the basic food basket to patients through the Ministry of Planning and the Ministry of Social Assistance and Reintegration (MINARS) until 2008.⁹ Since 2009 there has been no further incentive for TB patients.

The objective of this study was to evaluate the effect of incentives (basic food basket) on the treatment outcome of patients with TB in the ATD, Huambo.

A retrospective study is carried out. The study included 19 739 cases of TB that were treated in the period between 2002 and 2014, in the ATD, Huambo. The study time was divided into two periods, the first one referring to the years 2002–2008, the period in which the basic baskets were distributed, and the second period referring to the years 2009–2014, during which there were no basic baskets. Data on the total TB cases and treatment outcomes were collected through the annual ATD reports, Huambo.

Treatment results were defined according to the WHO guidelines.¹⁰ The data available was analyzed through descriptive statistics. Mann-Whitney U test was used for group comparison.

Table 1
Results of the Patients' Treatment Diagnosed With TB in the DAT, Huambo, During the Period From 2002 to 2014.

Year	Number of cases	Success (%)	Failure (%)	Deceased (%)	Abandonment (%)	Transferred (%)
<i>With basic basket</i>						
2002	1591	1421 (89.3)	4 (0.3)	53 (3.3)	110 (6.9)	3 (0.2)
2003	1694	1551 (91.6)	5 (0.3)	32 (1.9)	98 (5.8)	8 (0.5)
2004	1563	1395 (89.3)	7 (0.4)	41 (2.6)	111 (7.1)	9 (0.6)
2005	1664	1465 (88.0)	9 (0.5)	59 (3.5)	118 (7.1)	13 (0.8)
2006	1143	988 (86.4)	4 (0.3)	40 (3.5)	105 (9.2)	6 (0.5)
2007	1590	1328 (83.5)	3 (0.2)	50 (3.1)	200 (12.6)	5 (0.3)
2008	1567	1369 (87.4)	6 (0.4)	37 (2.4)	144 (9.2)	11 (0.7)
<i>Without basic basket</i>						
2009	1122	569 (50.7)	15 (1.3)	51 (4.5)	462 (41.2)	25 (2.2)
2010	1780	1042 (58.5)	24 (1.3)	76 (4.3)	617 (34.7)	21 (1.2)
2011	1871	1325 (70.8)	18 (1.0)	67 (3.6)	447 (23.9)	19 (1.0)
2012	1505	914 (60.7)	10 (0.7)	57 (3.8)	508 (33.8)	16 (1.1)
2013	1425	859 (60.3)	8 (0.6)	38 (2.7)	502 (35.2)	18 (1.3)
2014	1224	760 (62.1)	9 (0.7)	34 (2.8)	401 (32.8)	20 (1.6)

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The results of the treatment of 19 739 cases of TB were evaluated. In both periods, the median of therapeutic success (88% versus 60.5%, $P=.001$), the median of failure (0.3% versus 0.85%, $P=.002$) and the median of dropouts (7.1% versus 34.25%, $P=.001$) were significantly different. No difference was found in the deceased (3.1% versus 3.7%, $P=.073$). The results of the patients' treatment are shown in Table 1.

Our study showed that between 2002 and 2008, when basic food baskets were distributed to TB patients, the success rate of treatment was higher than in the period from 2009 to 2014, when there were no food baskets. With the removal of such incentives to patients, there was a considerable increase in treatment withdrawal. Similar to our study, a study conducted in Afghanistan found that the treatment success increased from the moment that the WFP introduced food assistance to TB patients.⁴ In Brazil, the provision of basic food baskets significantly increased adherence to TB treatment.¹¹ Other studies have also shown the positive impact of incentives on patients' adherence to TB treatment,^{12,13} taking into account the socio-economic difficulties experienced by these vulnerable groups.³

We assume that the incentive impact assessment in the outcome of treatment in our study was limited to the analysis of grouped data and that the sociodemographic and socioeconomic data of each patient would need to be assessed for a more complete analysis. However, our analysis strongly suggests the importance of incentives in patients' adherence to treatment, and therapeutic success against TB.

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1579-2129/

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S. aureus Pneumonia and Sternoclavicular Septic Arthritis: An Unusual Complication[☆]



Neumonía por S. aureus y artritis séptica esternoclavicular, una complicación insólita

To the Editor,

A rare complication of community-acquired pneumonia (CAP) is septic arthritis (SA). This infection is exceptional, and does not usually occur simultaneously with the acute process.^{1,2} It is most commonly caused by *Streptococcus pneumoniae*.^{1,3} The joints most often affected in these cases are the knee, the hip and the shoulder.^{1,3} Most SA are caused by *Staphylococcus aureus* and *Streptococcus*, and develop in patients with predisposing risk factors.^{1–6} We report a case of pneumonia due to *S. aureus*, accompanied simultaneously with a sternoclavicular septic arthritis (SSA) due

☆ Please cite this article as: Molina V, Arlandis M, Vañes S, Chiner E. Neumonía por S. aureus y artritis séptica esternoclavicular, una complicación insólita. Arch Bronconeumol. 2018;54:168–169.

to bacteremia in a young woman without known risk factors. This is the first report of this association in the literature.

A 60-year-old woman, non-smoker, with no history of immunosuppression or risk factors for lung disease attended the emergency room with pleuritic pain and pain in the left shoulder, 38°C fever, cough without expectoration and intense pain in the mid-clavicular region and left shoulder. Chest radiograph revealed mild infiltrate in the left lower lobe. Signs of consolidation and egophony in the left lower field were detected on examination. A very painful non-fluctuating swelling with no signs of inflammation in the skin was observed in the upper left sternoclavicular region. Fiberoptic bronchoscopy was performed, revealing signs of inflammation, and samples were sent for pathology and microbiology studies. Blood cultures were negative. No valvular lesions or vegetations suggestive of endocarditis were observed on echocardiogram. Empirical treatment with ceftriaxone and levofloxacin was started, with little clinical response, while morphine was required for pain control. Chest computed tomography (CT) showed inflammatory changes in the left pectoral muscle and a pseudonodular image measuring 3.3×2.3 cm in the space between the anterior portion of the first and second left