ANTIFIBROSIS THERAPY IN THE MANAGEMENT OF PULMONARY TUBERCULOSIS

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A not uncommon occurrence during the treatment of pulmonary tuberculosis is the onset of pulmonary fibrosis with a residual cavity showing no evidence of closure. Rather, the cavity wall becomes denser as the surrounding fibrosing process continues. The end result of treatment in such a case is often a patient who, despite being reasonably well, is chronically sputum-positive. For a variety of reasons resection of the cavity may be contraindicated.

Although the range of anti-tuberculosis drugs appears formidable in theory, the fact of the matter is that patients who do not respond satisfactorily to the basic INH, PAS and streptomycin, rarely show permanent dramatic response to other drugs.

In our opinion a greater certainty regarding the management and prognosis of pulmonary tuberculosis would be possible if fibrosis could be controlled, and the vascularity of the area of the lesion improved. This implies controlling fibrosis by means of systemic antifibrosis therapy.

Material and Method

One of us had initiated trials of such a nature a year ago using a certain drug, but the response obtained was

TABLE I. CLINICAL FINDINGS BEFORE AND AFTER TREATMENT WITH POTABA

						Patients		
				1	2	3	4	5
Prior treatment with tuberculostatics (months)			7	4	3	10*	13*	
Chest pain (subjective)		**	Before	_	+ (sharp)	+	+	+
	• •		After	-	(sharp)	-	_	-
Cough (objective)			Before	++	-1	++	++	++
	**	**	After	slight	-	slight	1 2	slight
Sputum (objective)		9.	Before	++ purulent yellow	thick bloodstained	++ frothy white	++ thick white	+ thick bloodstained
	* *		After	+ thin white	_	frothy white	_	3 <u></u> 3
Tightness of chest (subjective)		**	Before		=	++	+	+
	• •		After		_	-		_
Dyspnoea at rest (subjective and objective)			Before	_		++	-	+
		After	-	-	_	-	-	
* These two patients were transferred	d to M	ontebell		institutions.	(

TABLE II. RADIOLOGICAL FINDINGS AFTER POTABA TREATMENT

Patients

	I	2	3	4	5	
Location of disease	Bilateral	Bilateral	Bilateral	Bilateral	Unilateral	
	. Unilateral, single . Less dense	Bilateral, multiple Not apparent as such	Bilateral, multiple Less dense	Unilateral, single Not apparent as such	Unilateral, multiple Less dense	
Cavity closure	. Occurring s Fair	Apparently closed Only a few linear densities remain	Fair	Apparently closed Only a few linear densities remain	Fair	

TABLE III. BACTERIOLOGICAL FINDINGS BEFORE AND AFTER POTABA TREATMENT

		Patients						
		1	2	3	4	5		
Courties Zighl Manham diseast among	Before	+	+	+	+	+		
Sputum-Ziehl-Neelsen direct smear	After	-	100	_		_		

equivocal. We now report on the use of potassium p-amino-benzoate Glenwood ('potaba'), described as a systemic antifibrosis agent of use in the management of scleroderma, pemphigus, Dupuytren's contracture, Peyronie's disease and pulmonary fibrosis.

Potaba was administered to 5 patients suffering from pulmonary tuberculosis for 6 weeks in a dose of 12 G. daily, divided into 3 G. (the contents of one sachet) 4 times a day, dissolved in cold water.

The results are given in Tables I, II and III.

In addition, potaba was given to 1 male and 1 female patient suffering from advanced tuberculosis with completely destroyed left lungs. For the first time in their clinical records they both gave a sputum-negative result following potaba therapy superimposed upon the tuberculostatics.

DISCUSSION

1. We are reasonably satisfied that the 5 patients we

treated showed an unexpectedly favourable response both clinically and radiologically, when potassium p-aminobenzoate Glenwood (potaba) was added to their basic anti-tuberculosis therapy.

- 2. It is impossible to undertake proper trials of sufficient size with statistical control at our hospital.
- 3. We consider these results to be of sufficient significance in tuberculosis treatment to warrant well-planned trials by those in a position to carry them out.
- 4. If the value of potaba can be established beyond all doubt, then we feel that its real importance will almost certainly lie in its use from the very beginning of antituberculosis therapy, or at least at a much earlier stage of the disease than in the trials conducted by us.

We wish to thank Messrs Protea Pan-Africa Pharmaceuticals, who made supplies of potaba available for these tests.