Case Report

Reactivation of Tuberculosis Following Major Abdominal Surgery

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Abstract
A 46 year old male presented with dysphagia to solids and vomiting. He was evaluated clinically, radiologically and by upper GI endoscopy. He was diagnosed to have carcinoma of the distal 1/3rd of the oesophagus extending onto the Fundus of stomach (Sievert III).A standard transthiatalesophagusctomy and total gastrectomy with Roux-en-Y esophagesophageal reconstruction was done. His post op period was relatively uneventful and discharged on POD 22. He was readmitted for radiotherapy as per Protocol. (5040 cGY/25#/5 weeks). He developed persistent cough with expectoration on day 5. A pulmonology consult was given and sputum for AFB was sent. He was tested positive for pulmonary tuberculosis.

This man had a significant past history of being treated for TB meningitis 20 years ago. Treatment now was started as per DOTS regimen and was discharged after his course of radiotherapy. His Antitubercular drug therapy has been continued.

A search of the English literature survey revealed no similar articles of "Reactivation of Tuberculosis after abdominal surgery". The possible mechanism may be due to profound immunosuppression following malignancy and its treatment.

It is worthwhile to consider Tuberculosis as a differential diagnosis in the appropriate clinical setting as a cause of unexplained fever.

Keywords :
Key words are TB: Tuberculosis ; LTBI: Latent Tuberculosis Infection; DOTS: Directly Observed Treatment Short Course ; AFB: Acid Fast Bacilli

Introduction
Mycobacterium tuberculosis may survive for decades in the human body in a state termed latent (2). Tuberculosis (TB) remains a leading infectious cause of mortality and morbidity worldwide.

As one-third of the world’s population is estimated to be latently infected with Mycobacterium tuberculosis, people with latent tuberculosis infection (LTBI) represent a significant reservoir for future disease reactivation. Previous studies have generated two alternative hypotheses about the modes for M. tuberculosis persistence in humans. One hypothesis is that during latency, M. tuberculosis enters a very slow replicating or non-replicating dormant state in which the bacilli are insensitive to killing by the host immune system and anti-TB drugs.

The other hypothesis is that during latency, M. tuberculosis replicates but is killed by the host immune system at a rate roughly equal to its replication rate. (2).

Case History
A 46 year old gentleman presented to surgery opd with complaints of dysphagia and vomiting. He had significant loss of apetite and loss of weight. There was no history of cough with expectoration. Patient had history of Tuberculous Meningitis diagnosed 20 years ago .Treated with anti-tubercular therapy for a period of 8 months. There was no significant per abdomen or respiratory system finding on examination. He was evaluated clinically and radiologically. An Upper G.I Endoscopy was done which showed a carcinoma of distal 1/3rd of oesophagus extending into fundus of stomach (Sievert III). A Transhiatal esophagectomy and total gastrectomy with Roux-en-Y esphagojejunostomy was done .His post-operative period
was grossly delayed and he went home only on Post Op day 22. This man was admitted for radiotherapy (5040 cGY/25#/5 weeks). He developed cough with expectoration on day 5. The pulmonologist who evaluated him asked for sputum AFB. This was tested positive for AFB staining. Treatment was started as per DOTS regimen and was discharged after 5 weeks of radio therapy. He is presently on Anti Tubercular therapy.

Discussion

It is important to screen for reactivation of tuberculosis because it increases the mortality associated with malignancy. Neoplasms of the head and neck, gastrointestinal tract, lung and hematological have a high incidence of coexistence of Tuberculosis (1). Diagnosis of reactivated Tuberculosis may be delayed due to nonspecific symptoms. Cough and fever are common complaints among patients (1). The recommended treatment for TB comprises a 3-or 4-drug regimen. (1). A search of the english literature survey revealed no similar articles of “Reactivation Of Tuberculosis after abdominal surgery”. The possible mechanism may be due to profound immunosuppression following malignancy and its treatment. It is worthwhile to consider Tuberculosis as a differential diagnosis in the appropriate clinical setting as a cause of unexplained fever for malignancy.

References