> IMAGE EVALUATION TEST TARGET (MT-3)




Nㅔ…25


Photographic
Sciences
Corporation

(716) 872.4503

# CIHM/ICMH Microfiche Series. 

# CIHM/ICMH Collection de microfiches. 

## Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiquas

(C)

## 1


2

The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significently change the usual method of filming, are checked below.


Coloured covers/
Couverture de couleur
Covers damaged/
Couverture endommagée
Covers restored and/or laminated/
Couverture restaurée et/ou pelliculée
Cover title missing/
Le titre de couverture manque
Coloured maps/
Cartes géographiques en couleur
Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)
Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur
Bound with other material/
Relié avec d'autres documents
Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distortion le long de la marge intérieure

Blank leaves added during restoration may appear within the text. Whenever possible, these have been omittod from filming/
Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sonî peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.

Coloured pages/
Pages de couleur
Pages damaged/
Pages endommagées
Pages restored and/or laminated/
Pages restaurées et/ou pelliculéesPages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquées
Pages detached/
Pages détachées
Showthrough/
TransparenceQuality of print varies/
Qualité inégale de l'impressionIncludes supplementary material/
Comprend du matériel supplémentaire
Only edition available/
Seule édition disponible
Pages wholly or partially obscured by errata slips, tissues, etc., have been refilmed to ensure the best possible image/ Les pages totalement ou partiellement obscurcies par un feuillet d'errata, une pelure, etc., ont été filmées à nouveau de façon à obtenir la meilleure image possible.

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.


The copy filmed here has been reproduced thanks to the generosity of:

Library of Congress<br>Photoduplication Service

The last recorded frame on each microfiche shall contain the symbol $\rightarrow$ (meaning "CONTINUED"), or the symbol $\nabla$ (meaning "END'), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to wa entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:


L'exempisire filmé fut reproduit grâce à la générosité de:

Library of Congress
Photoduplication Service

Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les conditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençant par le premier plat et en terminant soit par la derniere page qui comporte une empreinte d'impression ou d'illustration, soit par le second plat, selon le cas. Tous les autres exemplaires originaux sont filmés en commençant par la premierre page qui comporte une empreinte d'impression ou d'illustration et en terminant par la derniàre page qui comporte une telle empreinte.

Un des symboles suivants apparaîtra sur la dernière image de chaque microfiche, selon le cas: le symbole $\rightarrow$ signifie "A SUIVRE", le symbole $\nabla$ signifie "FIN".

Les cartes, planches, tableaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivants illustrent la méthode.


| 1 | 2 | 3 |
| :--- | :--- | :--- |
| 4 | 5 | 6 |





CARCINOMA OF THE (ESOPHAGUS WITH FATAL HAMORRHAGE FROM THE SUBCLAVIAN ARTERY.

(Reprinted from the Montreal Medicul Journat, February, 1s:6.)

## Careinoma of the dsophagus with ratal, hamor. rhatie from the subchavian artery. <br> BY

F. G. FINLEY, M. D. and D. P. ANDERSON, M.I;

Jumes II.-A carter, agel 60, was admitted to the Montreal Ceneral Hospital on September (i, 1898, complaining of hoarweness mad inability to swallow solid food.

He had used aleohol to exeess for years, but was moderate in the use of tobacco. In April, of the present year, he began to suffer from a slight cough, ana in June, he first noticed diffeulty in swallowing solid food. He has been hoarse for six weeks.
Present Condition. He is a rather poorly nourished man, with a slight degree of anaemia. 'The inuseles are soft and small, and the subcutancous tissue scanty. There is complete aphonia, the patient being only able to speak in a whisper. Dr. Birkett reports that there is complete paralysis of the left roeal cord, and deficient adduction of the right. A No. 8 cesophageal sound was arrested $131-2$ inches from the mouth, but a No. 7 passed into the stomach.
Apart from some arterial scletosis and emphysema of the lungs there was no disease of any of the organs. The left radial pulse was noted as mueh smaller than the right.

On September 20th, the patient began to have evening elevations of temperature, began to complain of a dull pain behind the sternum, and the diffieulty in swallowing continued.
Oct. 10. A No. 3 oesophagenl sound was arrested eight inches from the teeth.
Nov. 4. Temperatures continue elevated, varying from 98 to 103. There was a severe rigor yesterday, the thermometer registering $105 \quad 2-5$.
Nov. 15. Cough is more troublesome, but expectoration is scanty and not fetid. Repeated examination never revealed any tuberele bacilli. About this time the breath beeame offensive, and four days later this feature became so marked that he was transferred to an isolation ward. Septic temperatures, with occusional rigors, continued. Emaciution was marked, but not extreme.
Nov. 25. At 7 p.m. there was a slight attack of coughing, immediately followed by a profuse haemorrhage. He asked for a towel, then suddenly fell back, gave a few gasps and died.

Abstract of Autopsy-The body is that of a somewhat emaciated old man.

At a point $31-2 \mathrm{~cm}$. above the bifureation of the trachea the oesophagus only admits a small probe, and on its mucous surface there
is an uleer 3 em. in diameter, with an irregular base from which canti-flower-like musses project. Suromoling the oesophagns at this level is a firm mass about the size of a hen's egg. Ihis growth extends to the left, and surroumds the left cnrotid and subechvinn arterics, compressing these vessels and narrowing their chmnels. The growth is of very flrm eonsistence, of whitish nppenrance, traversed by glistruing bunds, and exuding a cancerous juice. 'The adjacent lung is densely adherent and a gangrenous cnvity about the size of a large apple is present at the urex of the lung, in close relation with the tumor. This cavity is filled with dark cloted blood, ant a large division of the bronchus opens into it. There are several small cancerous nodules in the left lung, and smull patches of broncho-pnemmonia. On the wall of the subclavian artery : 1-2 inches from its origin is a small cireular perloration, 3 inches in dimmeter. 'This onening communicates with the gangrenous cavity in the lung.
The erico-artenoidens laterulis and posticus on the left side are mark. edly atrophied. Microseopical examination of the tissue from primary growth in oesophagus shows this to be composed mainly of fibrous tissue with extensive infiltration oif epithelial cells, these being arranged in tubular and alveolar forms us in a carcinoma. The secondary nodules in the lung though of the same character, differ slightly in that the celluhar elements of growth are more of an endothelial type.

Anatomical Diagnosis. Cancer of oesophagus, Gangrene of lung. Perfontion of second pertion of subelavian artery. Broncho-pnenmonia and secondary growths in tissues of neck and epigastric glands. Cloudy swelling of organs. Perforative appendicitis and peri-appendicular abscess.

The diagnosis made during life was cancer of the oesophogus, followed by gangrene of the lung.

The presence of dysphagia in an elderly and somewhat emanated man at once drew attention to the oesophagus; obstruction about 8 1-2 inches from the teeth, as found at the second examination, corresponded to about the bifurention of the trachea, near which the stricture was ultimately found.

No obvious explanation was found for the fact that the sound first passed 13 1-2 down the oesophagus, and then was arrested. There was no stricture at this point, and there was possibly some error in observation.
In a case under the late Dr. Geo. Ross, one of us once passed an ocsophageal sound into a large gangrenous cavity of the lung, and so failed to find obstruction in the oesophagus. At the autopsy some days later the communication with the lung had closed. It is needless to say that in the present case such a fallacy could not have oceurred.

A featire of interest was the extreme narrowing of the oesophagus,
which only admitted a small probe. In spite of this there was never difficully in swallowing thuids.

The association of parulysis of the left vocul cord with a small pule in the left radial artery is a combination which, apart foom aneurism, must be somewhat rure. 'The growth of the tumor aromed the ariery, compressing and marrowing its lumen, was very obvions at the autopsy, and satisfactorily explains the character of the pulse. Paralysis of the left recurrent laryngeal nerve is of frequent occurrence in cancer of the oesiophagus, and oceasionally both nerves are attucked, so that by itself this sign would not mislead the clinician. It is, however, quite conceivable that the combination of two such well known signs of aneurism might prove deceptive.
Death from haemorrhage is an unusun termination in oesophagen caneer. In our case the artery was udherent to the hung, and in close contact with the gangreuous aren, and perforation occurred from extension of the necrotic process. The haemorrhage thas took place into the gangrenous envity, and thence passed be the bronchi to the mouth. Taylor* has collected nine cases of fatal haemorrhage from the aorta, resulting from carcinoma of the oesoph gus. In most of them death resulted from sudden and profuse vomiting of blood, and in nenty all cases blood was found in the stomach. In his own case there was a hole the size of a pea in the aorta; through this a portion of the malignant growth from the oesophagus had extended, presenting a shredly filament free in the aorta. There was an ulcer opposite the hole in the norta, prolably prodncod by friction with the filament of cancerons tissue. There was no external haemorrhare, all the hood having found its way to the stomach.
In our case the haemorthage was from the artery inte the gangrenoms cavity, so that none reached the stomach. The small peri-appendicular abscess was not suspected during life, nnd the rigors which necurred were attributed to an ulecrative process about the tumor. That this origin was probable is indicated by the facts that the rigors only occurred late in the disease, and were accompanied by congh, and later by fetor of the breath, and sputa.

[^0]



[^0]:    * Guy's Hospital Report., XLIX. , 18 ${ }^{2}$

