

**THE BREATH, AND THE  
DISEASES WHICH GIVE IT  
A FETID ODOR. WITH  
DIRECTIONS FOR TREATMENT**

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The Breath, and the Diseases Which Give It a Fetid Odor. With Directions for Treatment by  
Joseph W. Howe

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**JOSEPH W. HOWE**

**THE BREATH, AND THE  
DISEASES WHICH GIVE IT  
A FETID ODOR. WITH  
DIRECTIONS FOR TREATMENT**



*Wm Langdon Sullivan,  
Malden,*

THE BREATH, *et cetera*,

AND THE

DISEASES WHICH GIVE IT A FETID ODOR.

*WITH DIRECTIONS FOR TREATMENT.*

BY

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## P R E F A C E .

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MARKED changes in the breath have heretofore received little consideration from the profession. Our medical text-books contain scarcely an allusion to their existence. I have endeavored, in the following pages, to give a succinct account of the diseased conditions in which a fetid breath is the most important feature. The principal facts detailed concerning the production of the offensive odors are the results obtained from personal investigations, conducted both in private practice and in our city hospitals.

J. W. H.

38 WEST TWENTY-FOURTH ST., }  
September 1874. }

the same time, the fact that the  $\beta$  phase is not observed in the  $\beta$ -phase region of the phase diagram (Fig. 1) is not surprising. The  $\beta$  phase is a metastable phase, and its formation is kinetically controlled. The  $\beta$  phase is formed in the  $\beta$ -phase region of the phase diagram only when the cooling rate is sufficiently high to suppress the growth of the  $\alpha$  phase. In the present study, the cooling rate was not high enough to suppress the growth of the  $\alpha$  phase, and therefore the  $\beta$  phase was not observed in the  $\beta$ -phase region of the phase diagram.

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# THE BREATH.

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## CHAPTER I.

### REPAIR AND DECAY—RESPIRATION.

*General Considerations.—Sympathetic Connections.—Changes in the Food during the Process of Digestion.—Destruction and Repair of Tissue.—Compounds resulting from Physiological Decay and Putrefaction.—Composition of Air inhaled and exhaled.—Effects of Medicinal Substances on the Breath.—Causes of Fetid Breath.*

AN offensive breath is a functional disorder liable to occur at all periods of life. Men are more subject to it than women. It is a prominent symptom of many morbid conditions. The affection derives its importance from the fact that it is a constant source of misery to all who, by force of circumstances, are compelled to associate with the unfortunate patient. In its worst forms it effectually destroys the communion of friends, and