

## Exhaled Breath Condensate (EBC ph)

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[Effective Date](#) 04/2022  
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[Coverage Policy](#) Medical 334  
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**Member-specific benefits take precedence over medical policy and benefits may vary across plans. Refer to the individual's benefit plan for details\*.**

### Purpose:

This policy addresses the medical necessity of Exhaled Breath Condensate (EBC ph).

### Description & Definitions:

Exhaled Breath Condensate pH is a non-invasive method for collecting the condensation from exhaled air to monitor and measure pH values in the lungs, for inflammatory respiratory disorders.

### Criteria:

Exhaled Breath Condensate (EBC ph) is considered not medically necessary for any indication.

### Coding:

Medically necessary with criteria:

Coding	Description
	None

Considered Not Medically Necessary:

Coding	Description
83987	pH; exhaled breath condensate

U.S. Food and Drug Administration (FDA) - approved only products only.

### Document History:

Revised Dates:

- 2022: April
- 2021: February, May, November

- 2020: May
- 2016: April
- 2014: October, November
- 2013: March, October
- 2011: September

Reviewed Dates:

- 2023: March
- 2020: February
- 2018: December
- 2017: December
- 2016: August
- 2015: August
- 2014: August
- 2012: March
- 2011: March
- 2010: March

Effective Date:

- January 2010

## References:

Specialty Association Guidelines; Government Regulations; Winifred S. Hayes, Inc; UpToDate; Literature Review; Specialty Advisors; National Coverage Determination (NCD); Local Coverage Determination (LCD).

(2022, Aug 31). Retrieved Feb 17, 2023, from MCG: <https://careweb.careguidelines.com/ed26/index.html>

(2023). Retrieved Feb 17, 2023, from Hayes, Inc.:

<https://evidence.hayesinc.com/search?q=%257B%2522text%2522:%2522exhaled%2520breath%2520condensate%2522,%2522title%2522:null,%2522termsource%2522:%2522searchbar%2522,%2522page%2522:%257B%2522page%2522:0,%2522size%2522:50%257D,%2522type%2522:%2522all%2522,%2522>

(2023). Retrieved Feb 17, 2023, from UpToDate:

[https://www.uptodate.com/contents/search?search=exhaled%20breath%20condensate&sp=0&searchType=PLAIN\\_TEXT&source=USER\\_INPUT&searchControl=TOP\\_PULLDOWN&searchOffset=1&autoComplete=false&language=&max=0&index=&autoCompleteTerm=&rawSentence=](https://www.uptodate.com/contents/search?search=exhaled%20breath%20condensate&sp=0&searchType=PLAIN_TEXT&source=USER_INPUT&searchControl=TOP_PULLDOWN&searchOffset=1&autoComplete=false&language=&max=0&index=&autoCompleteTerm=&rawSentence=)

(2023). Retrieved Feb 17, 2023, from Centers for Medicare and Medicaid Services:

<https://www.cms.gov/medicare-coverage-database/search-results.aspx?hcpcsOption=code&hcpcsStartCode=83987&hcpcsEndCode=83987&sortBy=title&areald=s53&docType=6,3,5,1,F,P&contractOption=all>

(2023). Retrieved Feb 17, 2023, from AIM Specialty Health: <https://aimspecialtyhealth.com/resources/clinical-guidelines/>

(2023). Retrieved Feb 17, 2023, from National Comprehensive Cancer Network: <https://www.nccn.org/search-result?indexCatalogue=nccn-search-index&searchQuery=exhaled%20breath%20condensate>

(2023). Retrieved Feb 17, 2023, from Department of Medical Assistance Services:

<https://www.dmas.virginia.gov/for-providers/rates-and-rate-setting/procedure-fee-files-cpt-codes/#searchCPT>

[https://www.google.com/search?q=Professional+recommendations+for+exhaled+breath+condensate+testing&rlz=1C1GCEA\\_enUS982US982&oq=Professional+recommendations+for+exhaled+breath+condensate+testing&aqs=chrome..69i57j33i160j33i299l2j33i22i29i30.19000j0j4&sourc](https://www.google.com/search?q=Professional+recommendations+for+exhaled+breath+condensate+testing&rlz=1C1GCEA_enUS982US982&oq=Professional+recommendations+for+exhaled+breath+condensate+testing&aqs=chrome..69i57j33i160j33i299l2j33i22i29i30.19000j0j4&sourc)

Ghelli, F., Panizzolo, M., Garzaro, G., Squillacioti, G., Bellisario, V., Colombi, N., . . . Bono, R. (2022, Aug 29). Inflammatory Biomarkers in Exhaled Breath Condensate: A Systematic Review. Retrieved Feb 17, 2023, from PubMed: <https://pubmed.ncbi.nlm.nih.gov/36077213/>

(2022). Retrieved Apr 05, 2022, from PubMed:  
<https://pubmed.ncbi.nlm.nih.gov/?term=exhaled+breath+condensate+ph&filter=simsearch2.ffrft&filter=years.2021-2021>

Smith, D., & Amin, R. (2021, May 19). Cardiovascular consequences of obstructive sleep apnea in children. Retrieved Apr 05, 2022, from UpToDate: [https://www.uptodate.com/contents/cardiovascular-consequences-of-obstructive-sleep-apnea-in-children?search=Exhaled%20breath%20condensate%20&source=search\\_result&selectedTitle=1~150&usage\\_type=default&display\\_rank=1](https://www.uptodate.com/contents/cardiovascular-consequences-of-obstructive-sleep-apnea-in-children?search=Exhaled%20breath%20condensate%20&source=search_result&selectedTitle=1~150&usage_type=default&display_rank=1)

This medical policy expresses Sentara Health Plan's determination of medical necessity of services, and they are based upon a review of currently available clinical information. Medical policies are not a substitute for clinical judgment or for any prior authorization requirements of the health plan. These policies are not an explanation of benefits.

Medical policies can be highly technical and complex and are provided here for informational purposes. These medical policies are intended for use by health care professionals. The medical policies do not constitute medical advice or medical care. Treating health care professionals are solely responsible for diagnosis, treatment and medical advice. Sentara Health Plan members should discuss the information in the medical policies with their treating health care professionals. Medical technology is constantly evolving and these medical policies are subject to change without notice, although Sentara Health Plan will notify providers as required in advance of changes that could have a negative impact on benefits.

SHP Exhaled Breath Condensate, EBC pH, Respiratory Diagnostics, Respiratory Treatments, SHP Medical 286, lung disease, COPD, Asthma, cystic fibrosis, RTube, EBC pH, ECoScreen, ECoCheck