

1. World Health Organization. Asthma [Internet]. Geneva: WHO; 2020. Accessed October 20, 2020.
<https://www.who.int/ru/news-room/fact-sheets/detail/asthma>
2. Masoli M, Fabian D, Holt S, Beasley R. The global burden of asthma: executive summary of the GINA Dissemination Committee report. *Allergy*. 2004;59(5):469-478.
<https://doi.org/10.1111/j.1398-9995.2004.00526.x>
3. Diagnosing asthma: a 21st century challenge. Accessed June 03, 2020.
<https://www.asthma.org.uk/a54e6a69/globalassets/get-involved/external-affairs-campaigns/diagnostics/diagnosing-asthma-21st-century-challenge.pdf>
4. Минздрав России. Статистический сборник 2017 года. М.: МЗ РФ; 2018. Ссылка активна на 20.10.2020.
Minzdrav Rossii. Statisticheskij sbornik 2017g. Moskva: MZ RF; 2018. Accessed October 20, 2020. (In Russ.).
<https://www.rosminzdrav.ru/ministry/61/22/stranitsa-979/statisticheskie-i-informatsionnye-materialy/statisticheskij-sbornik-2017-god>
5. Chuchalin AG, Khaltaev N, Antonov NS, Galkin DV, Manakov LG, Paola Antonini P, Murphy M, Solodovnikov AG, Bousquet J, Pereira MH and Demko IV. Chronic respiratory diseases and risk factors in 12 regions of the Russian Federation. *International Journal of Chronic Obstructive Pulmonary Disease*. 2014;9:963-974.
<https://doi.org/10.2147/COPD.S67283>
6. Global Initiative for asthma (GINA). Global strategy for asthma management and prevention, updated 2020. https://ginasthma.org/wp-content/uploads/2020/04/GINA-2020-full-report_-final-_wms.pdf
7. Mukherjee M, Stoddart A, Gupta RP, Nwaru BI, Farr A, Heaven M, Fitzsimmons D, Bandyopadhyay A, Aftab C, Simpson CR, Lyons RA, Fischbacher C, Dibben C, Shields MD, Phillips CJ, Strachan DP, Davies GA, McKinstry B and Sheikh A. The epidemiology, healthcare and societal burden and costs of asthma in the UK and its member nations: analyses of standalone and linked national databases. *BMC Med*. 2016;14:113.
<https://doi.org/10.1186/s12916-016-0657-8>
8. Dusser D, Montani D, Chanez P, Blic JD, Delacourt C, Deschildre A, Devillier P, Didier A, Leroyer C, Marguet C, Martinat Y, Piquet J, Raheison C, Serrier P, Tillie-Leblond I, Tonnel A-B, de Lara MT and Humbert M. Mild asthma: an expert review on epidemiology, clinical characteristics and treatment recommendations. *Allergy*. 2007;62(6):591-604.
<https://doi.org/10.1111/j.1398-9995.2007.01394.x>
9. Canonica GW, Baena-Cagnani CE, Blaiss MS, Dahl R, Kaliner MA, Valovirta EJ. GAPP Survey Working Group. Unmet needs in asthma: Global Asthma Physician and Patient (GAPP) Survey: global adult findings. *Allergy*. 2007;62(6):668-674.
<https://doi.org/10.1111/j.1398-9995.2007.01352.x>
10. Levy ML. National Review of Asthma Deaths (NRAD). *British Journal of General Practice* [Internet]. Royal College of General Practitioners. 2014;64(628):564.2-564.

<https://doi.org/10.3399/bjgp14x682237>

11. Price D, Fletcher M, van der Molen T. Asthma control and management in 8,000 European patients: the REcognise Asthma and LInk to Symptoms and Experience (REALISE) survey. *NPJ Prim Care Respir Med*. 2014;24:14009.

<https://doi.org/10.1038/npjpcrm.2014>

12. Coverstone AM, Wang L, Sumino K. Beyond Respiratory Syncytial Virus and Rhinovirus in the Pathogenesis and Exacerbation of Asthma: The Role of Metapneumovirus, Bocavirus and Influenza Virus. *Review Immunol Allergy Clin North Am*. 2019 Aug;39(3):391-401.

13. Antonovich Zh. V., Tsarev V. P., Goncharova N. V. Natural regulatory T-cells and cytokines in patients with bronchial asthma in different periods of the disease. *Immunopathology, Allergology, Infectology*. 2009;4:35-44. (In Russ) Антонович Ж.В., Царев В. П., Гончарова Н. В. Естественные регуляторные Т-клетки и цитокины у больных бронхиальной астмой в разные периоды заболевания. *Иммунопатология, аллергология, инфектология*. 2009;4:35-44.

14. Hogg JC. Persistent and latent viral infections in the pathology of asthma. *Am Rev Respir Dis*. 1992;145:7.

15. Satia I, Cusack R, Greene JM, O'Byrne PM, Killian KJ, Johnston N. Prevalence and contribution of respiratory viruses in the community to rates of emergency department visits and hospitalizations with respiratory tract infections, chronic obstructive pulmonary disease and asthma. *PloS One*. 2020;15(2):e0228544.

<https://doi.org/10.1371/journal.pone.0228544>

16. Krammer F, Smith GJD, Fouchier RAM, Peiris M, Kedzierska K, Doherty PC, Palese P, Shaw ML, Treanor J, Webster RG, García-Sastre A. Influenza (Primer). *Nature Reviews: Disease Primers*. 2018;4:3.

<https://doi.org/10.1038/s41572-018-0002-y>

17. Kang SH, Cheong HJ, Song JY, Noh JY, Jeon JH, Choi MJ, Lee J, Seo YB, Lee JS, Wie SH, Jeong HW, Kim YK, Park KH, Kim SW, Jeong EJ, Lee SH, Choi WS, Kim WJ. Analysis of risk factors for severe acute respiratory infection and pneumonia and among adult patients with acute respiratory illness during 2011-2014 influenza seasons in Korea. *Infection & chemotherapy*. 2016;48(4):294-301.

<https://doi.org/10.3947/ic.2016.48.4.294>

18. Балкарова Е.О., Чучалин А.Г. Бронхиальная астма и респираторная вирусная инфекция. *РМЖ*. 1998;6:17.

Balkarova EO, Chuchalin AG. Bronhial'naya astma i respiratornaya virusnaya infekciya. *RMZH*. 1998;6:17. (In Russ.).

19. Jain S, Kamimoto L, Bramley AM, Schmitz AM, Benoit SR, Louie J, Sugerman DE, Druckenmiller JK, Ritger KA, Chugh R, Jasuja S, Deutscher M, Chen S, Walker JD, Duchin JS, Lett S, Soliva S, Wells EV, Swerdlow D, Uyeki TM, Fiore AE, Olsen SJ, Fry AM, Bridges CB, Finelli, L. Hospitalized patients with 2009 H1N1 influenza in the United States, April- June 2009. *N Engl J Med*. 2009;361(20):1935-1944.

<https://doi.org/10.1056/NEJMoa0906695>

20. Epidemiology Working Group for NCIP Epidemic Response, Chinese Center for Disease Control and Prevention. The epidemiological characteristics of an outbreak of 2019 novel coronavirus diseases (COVID-19) in China [J] . Chinese Journal of Epidemiology, 2020, 41 (02): 145-151. DOI: 10.3760/cma.j.issn.0254-6450.2020.02.003
21. Guan WJ, Liang WH, Zhao Y, Liang HR, Chen ZS, Li YM., Liu XQ, Chen RC, Tang CL, Wang T, Ou CQ, Li L, Chen PY, Sang L, Wang W, Li JF, Li CC, Ou LM, Cheng B, Xiong S, Ni ZY, Xiang J, Hu Y, Liu L, Shan H, Lei CL, Peng YX, Wei L, Liu Y, Hu YH, Peng P, Wang JM, Liu JY, Chen Z, Li G, Zheng ZJ, Qiu SQ, Luo J, Ye CJ, Zhu SY, Cheng LL, Ye F, Li SY, Zheng JP, Zhang NF, Zhong NS, He JX. Comorbidity and its impact on 1590 patients with Covid-19 in China: a nationwide analysis. Eur Respir J. 2020 May 14;55(5):2000547.
<https://doi.org/10.1183/13993003.00547-2020>
22. Zhang JJ, Dong X, Cao YY, Yuan YD, Yang YB, Yan YQ, Akdis CA, Gao YD. Clinical characteristics of 140 patients infected with SARS-CoV-2 in Wuhan, China. Allergy. 2020;75(7):1730-1741.
<https://doi.org/10.1111/all.14238>
23. Grasselli G, Zangrillo A., Zanella A, Antonelli M, Cabrini L, Castelli A, Cereda D, Coluccello A, Foti G, Fumagalli R, Iotti G, Latronico N, Lorini L, Merler S, Natalini G, Piatti A, Ranieri MV, Scandroglio AM, Storti E, Cecconi M, Pesenti, A. Baseline Characteristics and Outcomes of 1591 Patients Infected With SARS-CoV-2 Admitted to ICUs of the Lombardy Region, Italy. JAMA. 2020;323(16):1574- 1581.
<https://doi.org/10.1001/jama.2020.5394>
24. Richardson S, Hirsch JS, Narasimhan M, Crawford JM, McGinn T, Davidson KW; the Northwell COVID-19 Research Consortium, Barnaby DP, Becker LB, Chelico JD, Cohen SL, Cookingham J, Coppa K, Diefenbach MA, Dominello AJ, Duer-Hefe J, Falzon L, Gitlin J, Hajizadeh N, Harvin TG, Hirschwerk DA, Kim EJ, Kozel ZM, Marrast LM, Mogavero JN, Osorio GA, Qiu M, Zanos TP. . Presenting characteristics, comorbidities, and outcomes among 5700 patients hospitalized with COVID-19 in the New York City area. JAMA. 2020;323(20):2052-2059.
<https://doi.org/10.1001/jama.2020.6775>
25. Williamson E, Walker AJ, Bhaskaran KJ, Bacon S, Bates C, Morton CE, Helen JC, Mehrkar A, Evans D, Inglesby P, Cockburn J, McDonald HI, MacKenna B, Tomlinson L, Douglas IJ, Rentsch CT, Mathur R, Angel Wong A, Grieve R, Harrison D, Forbes H, Schultze A, Croker R, Parry J, Hester F, Harper S, Perera R, Evans S, Smeeth L, Goldacre B. Factors associated with COVID-19-related death using OpenSAFELY. Nature 2020;584(7821):430-436. <https://doi.org/10.1038/s41586-020-2521-4>
26. Mahdavinia M, Foster KJ, Jauregui E, Moore D, Adnan D, Andy-Nweye AB, Khan S, Bishehsari F. Asthma prolongs intubation in COVID-19. The Journal of Allergy and Clinical Immunology: In Practice. 2020;8(7):2388-2391.
<https://doi.org/10.1016/j.jaip.2020.05.006>
27. Клинические рекомендации «Бронхиальная астма», 2019. Ссылка активна на 15.10.2020.

Klinicheskie rekomendacii «Bronhial'naya astma», 2019. Accessed October 15, 2020. (In Russ.).

https://spulmo.ru/upload/kr_bronhastma_2019.pdf

28. COVID-19: GINA answers to frequently asked questions on asthma management, 25.03.2020. Accessed February 13, 2021.

<https://ginasthma.org/covid-19-gina-answers-to-frequently-asked-questions-on-asthma-management/>

29. Смирнова М.И., Антипушина Д.Н., Драпкина О.М. Дистанционные технологии ведения больных бронхиальной астмой (обзор данных научной литературы). Профилактическая медицина. 2019;22(6):125-132.

Smirnova MI, Antipushina DN, Drapkina OM. Distancionnye tekhnologii vedeniya bol'nyh bronhial'noj astmoj (obzor dannyh nauchnoj literatury). Profilakticheskaya medicina. 2019;22(6):125-132. (In Russ.).

<https://orcid.org/10.17116/profmed201922061118>

30. Антипушина Д.Н., Смирнова М.И. Перспективы дистанционного контроля хронической обструктивной болезни легких и бронхиальной астмы. В сборнике: Физика и радиоэлектроника в медицине и экологии - ФРЭМЭ'2020. Труды XIV Международной научной конференции с научной молодежной школой им. И.Н. Спиридонова. 2020. С. 72-74. ISBN 978-5-905527-38-8