

ALERTA BIBLIOGRÁFICA y NOTICIAS

Respuesta rápida para casos de
epidemias/pandemias/desastres
naturales

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Gasometría en el manejo clínico de los pacientes con la COVID-19

Descriptores DeCS: Infecciones por Coronavirus

Infecciones del Sistema Respiratorio/ terapia

Análisis de los gases de la sangre

Intervención Médica Temprana

Bibliografía

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2. Al-Qahtani AA. **Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2): Emergence, History, Basic and Clinical Aspects.** Saudi J Biol Sci. 2020 Apr 23. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: doi: 10.1016/j.sjbs.2020.04.033. <https://www.ncbi.nlm.nih.gov/pubmed/32336927>
3. Al-Shamsi HO, Alhazzani W, Alhurairi A, et al. **A Practical Approach to the Management of Cancer Patients During the Novel Coronavirus Disease 2019 (COVID-19) Pandemic: An International Collaborative Group.** [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: <https://www.ncbi.nlm.nih.gov/pubmed/32243668>
4. Cascella M, Rajnik M, Cuomo A, Dulebohn SC, Di Napoli R. **Features, Evaluation and Treatment Coronavirus (COVID-19).** StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan-.2020 Apr 6. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: <https://www.ncbi.nlm.nih.gov/pubmed/32150360>
5. Chang L, Yan Y, Wang L. **Coronavirus Disease 2019: Coronaviruses and Blood Safety.** Transfus Med Rev. Feb 2020. pii: S0887-7963(20)30014-6. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: doi: 10.1016/j.tmr.2020.02.003. <https://www.ncbi.nlm.nih.gov/pubmed/32107119>
6. Chatterjee P, Nagi N, Agarwal A, et al. **The 2019 novel coronavirus disease (COVID-19) pandemic: A review of the current evidence.** Indian J Med Res. 2020 Mar 30. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: doi: 10.4103/ijmr.IJMR_519_20. <https://www.ncbi.nlm.nih.gov/pubmed/32242874>
7. Chen D, et al. **Recurrence of positive SARS-CoV-2 RNA in COVID-19: A case report.** International Journal of Infectious Diseases 2020. [Internet]. [citado 4 May 2020]:[aprox. 8 p.]. Disponible en: <https://www.sciencedirect.com/science/article/pii/S1201971220301223>
[springer.com](https://www.springer.com)

Resumen: Arterial blood gas analysis indicated no abnormality with arterial oxygen tension (PaO₂) of 105mmHg and oxygenation index of 499 mmHg. Blood routine, liver function, renal function, myocardial enzymes, electrolyte, serum procalcitonin were normal ... Ablood gas analysis showed: PH 7.476↑, PCO₂ 28.2 mmHg↓, PO₂ 116.0 mmHg↑, HCO₃ ... performed nucleic acid tests for SARS-CoV-2 on cord blood and placenta specimens that we ...

8. Contini C, Di Nuzzo M, Barp N, Bonazza A, De Giorgio R, Tognon M, Rubino S. **The novel zoonotic COVID-19 pandemic: An expected global health concern.** J Infect Dev Ctries. 2020 Mar 31;14(3):254-264. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: doi: 10.3855/jidc.12671. <https://www.ncbi.nlm.nih.gov/pubmed/32235085>

9. Davenne E, Giot JB, Huynen P. **Coronavirus and COVID-19 : focus on a galloping pandemic.** Rev Med Liege. 2020 Apr;75(4):218-225. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: <https://www.ncbi.nlm.nih.gov/pubmed/32267109>

10. de Lusignan S, Lopez Bernal J, Zambon M, et al. **Emergence of a Novel Coronavirus (COVID-19): Protocol for Extending Surveillance Used by the Royal College of General Practitioners Research and Surveillance Centre and Public Health England.** JMIR Public Health Surveill. 2020 Apr 2;6(2):e18606. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: doi: 10.2196/18606. <https://www.ncbi.nlm.nih.gov/pubmed/32240095>

11. Erin K. MC, and Jason M. Pogue. **Coronavirus disease 2019 treatment: a review of early and emerging options.** Open Forum Infectious Diseases. Vol. 7. No. 4. US: Oxford University Press, [Internet]. 2020 [citado 4 May 2020]:[aprox. 9 p.]. Disponible en: https://scholar.google.com/scholar?output=instlink&q=info:BPo9Sfqy7Zcj:scholar.google.com/&hl=es&as_sdt=1,5&as_ylo=2019&as_vis=1&scilfp=1701269860272579606&oi=lle

Resumen: 1 (first reported in 2003), Middle East respiratory syndrome coronavirus ([MERS-CoV ... Antimicrobial stewardship programs, including infectious diseases pharmacists and physicians, are at the forefront ... also displays a high genetic barrier .

12. Guang J, et al. **Angiotensin II Receptor Blockers and Angiotensin-Converting Enzyme Inhibitors Usage is Associated with Improved Inflammatory Status and Clinical Outcomes in COVID-19 Patients With Hypertension.** MedRxiv

2020. [Internet]. [citado 4 May 2020]:[aprox. 7 p.]. Disponible en: <https://www.medrxiv.org/content/medrxiv/early/2020/04/04/2020.03.31.20038935.full.pdf>

Resumen: blood gas analysis, myocardial injury markers, coagulation profile, serum biochemical tests ... had lower arterial partial pressure of oxygen (10.1 [7.6-11.3] vs 11.3 [8.9-13.8]; p=0.001) ... ACE2 to treat non-hypertensive COVID-19 patients without affecting blood pressure

13. Guo YR, Cao QD, Hong ZS, et al. **The origin, transmission and clinical therapies on coronavirus disease 2019 (COVID-19) outbreak - an update on the status.** Mil Med Res. 2020 Mar 13;7(1):11. doi: 10.1186/s40779-020-00240-0. Review. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: <https://www.ncbi.nlm.nih.gov/pubmed/32169119>

14. Helmy YA, Fawzy M, Elasad A, et al. **The COVID-19 Pandemic: A Comprehensive Review of Taxonomy, Genetics, Epidemiology, Diagnosis, Treatment, and Control.** J Clin Med. 2020 Apr 24;9(4). pii: E1225. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: doi: 10.3390/jcm9041225. Review. <https://www.ncbi.nlm.nih.gov/pubmed/32344679>

15. Jin H, Cai L, Cheng ZS, et al. **Comparison of hospitalized patients with acute respiratory distress syndrome caused by COVID-19 and H1N1.** Military Medical Chest 2020. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: [https://journal.chestnet.org/article/S0012-3692\(20\)30558-4/fulltext](https://journal.chestnet.org/article/S0012-3692(20)30558-4/fulltext)

Resumen: respiratory frequency, and blood pressure), laboratory tests (blood routine test, arterial blood gas analysis (ABG), and blood chemistry), and microbiological findings/images of the lung (chest CT) ... detected in samples from either the respiratory tract or blood ...

16. Kai L, et al. **Clinical features of COVID-19 in elderly patients: A comparison with young and middle-aged patients.** Journal of Infection 2020. [Internet]. [citado 4 May 2020]:[aprox. 9 p.]. Disponible en: [https://www.journalofinfection.com/article/S0163-4453\(20\)30116-X/pdf](https://www.journalofinfection.com/article/S0163-4453(20)30116-X/pdf)

Resumen: ... 90 mmHg, body temperature <35°C or ≥40°C, pulse ≥125 beats / min, blood gas analysis PH <7.35 ... L (plus 20 points), blood sodium <130 mmol/L (plus 20 points), blood glucose ≥14.0 ... statistical software package of Social Sciences (SPSS 25.0) was used for analysis, and P

17. Kunling S, et al. **Diagnosis, treatment, and prevention of 2019 novel coronavirus infection in children: experts' consensus statement.** World Journal of Pediatrics 2020: 1-9. [Internet]. [citado 4 May 2020]:[aprox. 8 p.].

Disponibile en: <https://link.springer.com/article/10.1007/s12519-020-00343-7?fbclid=IwAR0MoYBSb8VRYK9I6W4QH9uU5sbNK4HqIW664hsdiZMAexBE6L3vjKT2Pnw>

Resumen: ... treating bronchiolitis, viral pneumonia, acute upper respiratory tract infection, hand foot mouth disease, SARS, and other viral infections in children ... Arbidol is administrated for adults infected with 2019-nCoV; however, its efficacy and safety remain unclear ... Asymptomatic Infection.

18. Kun-Ling S, Yang YH. **Diagnosis and treatment of 2019 novel coronavirus infection in children: a pressing issue.** 2020: 1-3. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: <https://link.springer.com/article/10.1007/s12519-020-00344-6>

Resumen: ... will be helpful for early recognition, early diagnosis and early treatment of infected children ... Experimental study on the prevention and treatment of SARS-CoV infection in rhesus monkeys with ... human interferon 2b aerosol in the prevention of respiratory virus infections such as ... NFilters activated: Free full text. Clear all to show 3 items.

19. Lai CC, Liu YH, Wang CY, et al. **Asymptomatic carrier state, acute respiratory disease, and pneumonia due to severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2): Facts and myths.** J Microbiol Immunol Infect. 2020 Mar 4. S1684-1182(20)30040-2. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: doi: 10.1016/j.jmii.2020.02.012. <https://www.ncbi.nlm.nih.gov/pubmed/32173241>

20. Lai CC, Shih TP, Ko WC, Tang HJ, Hsueh PR. **Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) and coronavirus disease-2019 (COVID-19): The epidemic and the challenges.** Int J Antimicrob Agents. 2020 Mar;55(3):105924. doi: 10.1016/j.ijantimicag.2020.105924. Feb 2020 [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: <https://www.ncbi.nlm.nih.gov/pubmed/32081636>

21. Min J, Tong Q. **Rhabdomyolysis as potential late complication associated with COVID-19.** Emerg Infect Dis 26.7 2020: 10-3201. [Internet]. [citado 4 May 2020]:[aprox. 8 p.]. Disponible en: <https://www.lusiadas.pt/pt/Covid19%20Public%20Resource%20Center/Clinical%20and%20Research%20Articles/21032020/Rhabdomyolysis%20as%20Potential%20Late%20Complication%20Associated%20with%20COVID-19.pdf>

Resumen: The patient reported less pain and fatigue in his lower limbs in the following days. Biochemistry and blood gas indicators ... drug treatment, his

fever abated, but the condition of both lungs was deteriorating ... sequencing and confirmation of rhabdomyolysis pathology analysis ...

22. Park SE. **Epidemiology, virology, and clinical features of severe acute respiratory syndrome -coronavirus-2 (SARS-CoV-2; Coronavirus Disease-19).** Clin Exp Pediatr. 2020 Apr;63(4):119-124. doi: 10.3345/cep.2020.00493. Epub 2020 Apr 2. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: <https://www.ncbi.nlm.nih.gov/pubmed/32252141>
23. Qian X, Ren R, Wang Y, et al. **Fighting against the common enemy of COVID-19: a practice of building a community with a shared future for mankind.** Infect Dis Poverty. 2020 Apr 7;9(1):34. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: doi: 10.1186/s40249-020-00650-1. <https://www.ncbi.nlm.nih.gov/pubmed/32264957>
24. Rong C, et al. **Safety and efficacy of different anesthetic regimens for parturients with COVID-19 undergoing Cesarean delivery: a case series of 17 patients.** Canadian Journal of Anesthesia/Journal canadien d'anesthésie 2020: 1-9. [Internet]. [citado 4 May 2020]:[aprox. 9 p.]. Disponible en: https://idp.springer.com/authorize/casa?redirect_uri=https://link.springer.com/article/10.1007/s12630-020-01630-7&casa_token=-SboHZTWfwcAAAAA:w09gjxcV0EuShubXWKMFqBTojP9YIUU8pjco3SDFuqYqVsZdlhvf5fBAPs660VIUbwB8z8qpm9y0CJCWBLE
Resumen: of delivery, American Society of Anesthesiologists (ASA) physical status score, arterial blood gases, operation time ... An overview of the intraoperative arterial blood gas of the parturients is shown in Table 3 ... CoV-2 virus has not been detected in amniotic fluid, cord blood, or breast ...
25. Shaoqing L, et al. **Clinical characteristics and outcomes of patients undergoing surgeries during the incubation period of COVID-19 infection.** E Clinical Medicine 2020: 100331. [Internet]. [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: <https://www.sciencedirect.com/science/article/pii/S2589537020300754>
Resumen: 2,18] For patients admitted to ICU, myocardial enzymes, inflammatory stress, and blood gas analysis were determined ... Blood urea nitrogen, mmol/L, 4.5–10.0, 4.5 (3.8–7.5), 5.8 (4.9 ... intensive care unit; IQR, interquartile range; bpm, beats per minute; MAP, mean arterial pressure; CI ...
26. Valencia DN. **Brief Review on COVID-19: The 2020 Pandemic Caused by SARS-CoV-2.** Cureus. 2020 Mar 24;12(3):e7386. doi: 10.7759/cureus.7386. [Internet].

[citado 4 May 2020]:[aprox. 6 p.]. Disponible en:
<https://www.ncbi.nlm.nih.gov/pubmed/32337113>

27. Velavan TP., Meyer CG. **The COVID-19 epidemic.** Tropical medicine & international health 25.3 2020: 278. [Internet]. [citado 4 May 2020]:[aprox. 7 p.]. Disponible en: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7169770/>
Resumen: Prominent signs of viral pneumonia include decreased oxygen saturation, blood gas deviations, changes visible ... 2003 reported an RO of 3.9. A recent data-driven analysis from the ... the antiretroviral drugs lopinavir and ritonavir significantly improved the clinical condition of SARS ...
28. Wang S, et al. **A case report of neonatal COVID-19 infection in China.** Clinical infectious diseases: an official publication of the Infectious Diseases Society of America 2020. [Internet]. [citado 4 May 2020]:[aprox. 5 p.]. Disponible en:https://covid-data.fr/media/papers/200312_Gyn_case-of-neonatal-infection-in-China_yuYHFye.pdf
Resumen: We followed up the newborn's condition after he was transferred to Wuhan Children's rapid advice guideline for the diagnosis and treatment of 2019 novel coronavirus (2019-nCoV) infected pneumonia (standard version)
29. Wenzheng H, et al. **The course of clinical diagnosis and treatment of a case infected with coronavirus disease 2019.** Journal of medical virology 92.5: 461-463. [Internet]. 2020 [citado 4 May 2020]:[aprox. 7 p.]. Disponible en: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7167012>
Resumen: ... 241001, Anhui, China 2 Department of Infectious Diseases, The First Affiliated Hospital of Wanan Medical ... Clinical Characteristics of 138 Hospitalized Patients With 2019 Novel Coronavirus-Infected Pneumonia in Wuhan, China. JAMA 2020 ... coronavirus infection in China.
30. Xiaoling X, et al. **Effective treatment of severe COVID-19 patients with tocilizumab.** ChinaXiv 2020: v1. . [Internet]. [citado 4 May 2020]:[aprox. 7 p.]. Disponible en:<https://www.ser.es/wp-content/uploads/2020/03/TCZ-and-COVID-19.pdf>
Resumen: clinical manifestations, CT scan image, and laboratory examinations were retrospectively analyzed ... storm which may result in increased alveolar-capillary blood-gas exchange dysfunction ... by electrochemical luminescence method (Roche Diagnostics GmbH) or FACS analysis ...
31. Ying-Hui J, et al. **A rapid advice guideline for the diagnosis and treatment of 2019 novel coronavirus (2019-nCoV) infected pneumonia (standard version).** Military Medical Research 7.1 2020: 4. [Internet]. [citado 4 May 2020]:[aprox. 8

p.]. Disponible en: <https://link.springer.com/article/10.1186/s40779-020-0233-6>

Resumen: ... the last 14 days before symptom onset; or epidemiologically connected to 2019-nCoV infections or clustered ... The 2019-nCoV infected cases have symptoms like fever, fatigue, dry cough, dyspnea etc ... 2020, pointed out that fever is still the typical symptom of 2019-nCoV Infection.

32. Zhi-Min C, et al. **Diagnosis and treatment recommendations for pediatric respiratory infection caused by the 2019 novel coronavirus.** World Journal of Pediatrics 2020: 1-7. [Internet]. 2020 [citado 4 May 2020]:[aprox. 6 p.]. Disponible en: https://idp.springer.com/authorize/casa?redirect_uri=https://link.springer.com/content/pdf/10.1007/s12519-020-00345-5.pdf&casa_token=8z2DbBbJpRcAAAAA:mWwbHJw6M_096iFwmGUdJ4UzrcdKhtF_iTs0484NOQG15NXg1eeKuW42nzc6YOpVasIYqIB3DLW6vGy-CrY

Resumen: ... enza virus, adenovirus, respiratory syncytial virus and metapneumovirus can cause viral respiratory infections ... Clinical features of patients infected with 2019 novel coronavirus in Wuhan ... of severe acute respiratory infection when novel coronavirus (nCoV) infection is suspected ...

Bases de datos utilizadas: PubMed, Sciencedirect, Springer, MedRxiv

Compilación: Dra. C. Maria del Carmen González Rivero

Noticias

Gasometría arterial y pulsioximetría - Trastornos del pulmón y las vías... Disponible en: <https://expansion.mx>

Resumen: El análisis de gases en la sangre arterial (gasometría arterial) mide la concentración de oxígeno y de dióxido de carbono en la sangre...

Gasometría en el manejo clínico de los pacientes con COVID-19 – Expansión. Hace 2 días. Disponible en: <https://www.redaccionmedica.com>

Resumen: Werfen, gasometría, laboratorio, análisis, COVID-19, respirador artificial.

Coronavirus: Urgencias actualiza su protocolo de actuación. 28 mar. 2020. Disponible en: <https://www.mscbs.gob.es>

Resumen: la tercera versión de su protocolo de manejo del coronavirus Covid-19 en Urgencias. ... en la que se valorarán gasometría, arterial basal, hemograma ...

Manejo clínico del COVID-19 - Ministerio de Sanidad. 19 mar. 2020. Disponible en: <https://www.mscbs.gob.es>

Resumen: Se recomienda realización de Analítica (hemograma, coagulación, **gasometría venosa**, bioquímica con. LDH, PCR y PCT)...

COVID-19: Parámetros Bioquímicos de Importancia – SATI. 30 mar. 2020. Disponible en: <https://www.sati.org.ar>

Resumen: COVID-19: Parámetros Bioquímicos de Importancia... **gasometría arterial** en esta patología para poder realizar una...

Confirmados 38 nuevos casos de COVID-19 en Cuba, para un... hace 5 horas. Disponible en: www.juventudrebelde.cu

Resumen: Para COVID-19 se estudiaron 2 mil 39 muestras,... presenta **gasometría con hipoxemia** severa y se traslada para...

Interpretación de la gasometría arterial en enfermedades respiratorias...por MG Pion 2015. Disponible en: <https://www.sciencedirect.com>

Resumen: La **gasometría arterial** es la prueba más rápida y eficaz para informarnos del intercambio pulmonar de gases y el equilibrio ácido base,...

Interpretación de la gasometría arterial – ScienceDirect. JMF Sánchez-Alarcos · 2006. Disponible en: <https://www.sciencedirect.com>

Resumen: COVID-19 campus closures: see options for getting or retaining Remote Access to subscribed... **Interpretación de la gasometría arterial.**

Cuba reporta 74 nuevos infectados de la COVID-19 en una sola jornada, récord... Disponible en: www.escambray.cu

Resumen: hace 1 día · Cuba reporta 74 nuevos infectados de la COVID-19 en una... **de oxígeno en gasometría** y empeoramiento radiológico.

NINGUN HOSPITAL SIN UCRI: EL VALOR DE LA NEUMOLOGIA EN EL... Disponible en: <https://www.neumomadrid.org>

Resumen: Ningún Hospital Sin Ucri: El Valor De La Neumología En la Covid-19 Y En El Paciente Semicrítico. Una Unidad de...

Compilación: Dra. C. Maria del Carmen González Rivero

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Dirección: Lic. [Yanet Lujardo Escobar](#)