



QUE OPÇÕES TERAPÊUTICAS?

Abordagem terapêutica dos doentes em Angola no âmbito da COVID-19

Fernanda Dias FMUAN





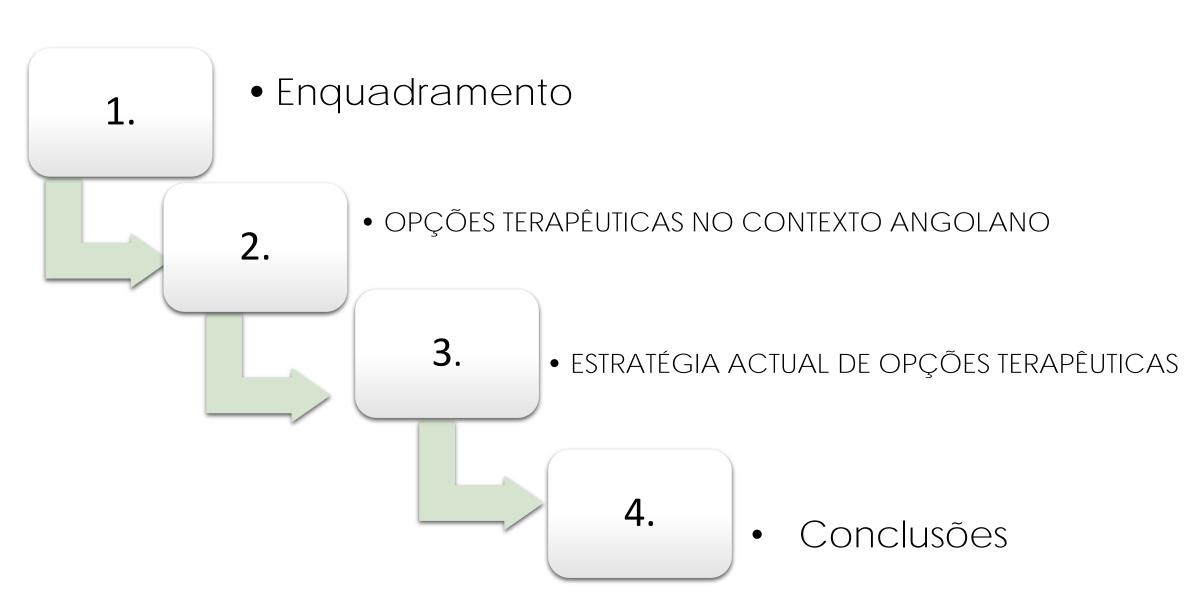








Sumário



1. Enquadramento

30 de Janeiro

- Criada a Comissão Interministerial.
- Concluído o Plano Nacional de Contingência.
- •OMS declara estado de Emergência em Saúde Pública.

1 de Fevereiro

- Iniciada
 quarentena
 institucional dos
 passageiros
 provenientes da
 China.
- Rastreio de todos os casos suspeitos no aeroporto internacional.

17 de Março

 Quarentena institucional para todos os passageiros provenientes de países com transmissão comunitária declarada.

21 de Março

- Diagnosticado primeiro caso da Covid-19
- Encerramento das fronteiras. *
- Inicia a investigação dos contactos.
- Activação das equipas de resposta rápida, busca activa de casos e activação da linha SOS - 111.



QUE OPÇÕES TERAPÊUTICAS?

2. Algumas Considerações:

- ✓ Não existe actualmente tratamento eficaz para a COVID-19, nem evidências clínicas robustas que apontem para um tratamento específico, apesar dos inúmeros ensaios clínicos em curso!
- ✓Com base nas recomendações inicias da OMS, apesar da não comprovada eficácia, Angola, adoptou desde o início o tratamento (off-label), com Cloroquina e seu análogo Hidroxicloroquina,
- isolada ou em combinação com a **Azitromicina**, para os casos oligossintomáticos a moderados.

2. Algumas Considerações – Casos Graves

1. Antibióticos

- Ceftriaxona 2g/dia (ou 1 g de 12/12 h) EV
- ou Amoxicilina/ácido clavulânico 2,2 g 8/8 h EV
- + Azitromicina 500mg/dia EV ou Claritromicina 500mg 12/12 h EV

2. Antivirais

- Oseltamivir 75 mg (comprimido), 2 comprimidos (150 mg) 12/12 h, via oral +* Lopipinavir 800 mg (ou 10 mg / kg) /dia + Ritonavir 200 mg (ou 2,5 mg / kg) / dia ???
- Remdesivir 200 mg EV (dose de carga, dia 1) seguida de Remdesivir 100 mg/dia EV (dose de manutenção, dias 2 a 10).

No início da Pandemia

TESTAR

TRATAR

ISOLAR

1. Hidroxicloroquina (HCQ)

 $400 \text{ mg de } 12/12\text{h} - 1^{\circ} \text{ dia}$, seguido de 200 mg de 12/12h durante 4-5 dias - até 10 dias.

Ou associada a Azitromicina 500 mg
(1xdia) – 5 a 10 dias

Antiv

journal ho

Parecer Científico da Sociedade Brasileira de Imunologia sobre a utilização da Cloroquina/Hidroxicloroquina para o

ANTIMICEONIAL AGENTS AND CHEMOTHERAPY, Aug. 2009, p. 3416-3421-0006-4804/09/\$08.00+0 doi:10.1128/AAC.01509-08 Copyright © 2009, American Society for Microbiology. All Rights Reserved 70.1101/2020.05.14.20101774.0iis version posied May 19, 2020. The copyright holder for this prepreview is the author/funder, who has graried medifixity a scenee in display the preprint in perpetal). It is made waitable under a CC-SY-ND 4.0 international liberse.

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Commentary

Of chloroquine and COVID-19

Franck Touret, Xavier de Lamballerie*

Unité des Virus Emergents, UVE: Aix Marseille Univ, IRD 190, INSERA

ARTICLEINFO	ABSTE
Keywords:	Recent po
SARS-CoV-2	drug, in
COVID-19	communi
2019-nCoV	antiviral
Chloroquine	
Australia	

Recent publications have brought attention to the po chloroquine, a broadly used antimalarial drug, in the tients infected by the novel emerged coronavirus (SARS) et al., 2020; Gao et al., 2020). The scientific community this information in light of previous experiments with the field of antiviral research.

The sulfate and phosphate salts of chloroquine commercialised as antimalarial drugs. Hydroxychlore been used as an antimalarial, but in addition is now autoimmune diseases such as Jupus and rheumatoid a chloroquine and hydroxychloroquine are considered side-effects are generally mild and transitory. Howe between the therapeutic and toxic dose is narrow poisoning has been associated with cardiovascular disorlife-threatening (Frisk-Holmberg et al., 1983). Chlor droxychloroquine use should therefore be subject to self-treatment is not recommended.

The in vitro antiviral activity of chloroquine has since the late 1960's (Inglot, 1969; Miller and Lenard et al., 1972) and the growth of many different viruses in cell culture by both chloroquine and hydroxychlorod the SARS coronavirus (Keyaerts et al., 2004), Some evide in mice has been found for a variety of viruses, includ onavirus OC43 (Keyaerts et al., 2009), enterovirus EV-2018), Zika virus (Li et al., 2017) and influenza A HS 2013). However, chloroquine did not prevent influenz randomized, double-blind, placebo-controlled clinical tr 2011), and had no effect on dengue-infecteds patient i controlled trial in Vietnam (Tricon et al., 2010). Chlor active ex vivo but not in vivo in the case of ebolavirus

E-mail addresses: franck.trairet@univ-amri.ir (F. Touret),

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Hydroxychloroquine or chloroquine with or without a macrolide for treatment of COVID-19: a multinational registry analysis

Manderp R Mohra, Sopan S Desai, Frank Buschitzka, Amit N Patel

Background Hydroxychloroquine or chloroquine, often in combination with a second-generation na widely used for treatment of COVID-19, despite no conclusive evidence of their benefit. Although used for approved indications such as autoimmune disease or malaria, the safety and benregimens are poorly evaluated in COVID-19.

Methods We did a multinational registry analysis of the use of hydroxychloroquine macrolide for treatment of COVID-19. The registry comprised data from 671 hospital patients hospitalised between Dec 20, 2019, and April 14, 2020, with a positive laboratory Patients who received one of the treatments of interest within 48 h of diagna e included in one alone, or hydroxychloroquine with a groups (chloroquine alone, chloroquine with a macrolide, hydroxychlor macrolide), and patients who received none of these treatments formed Patients for whom one of control gr the treatments of interest was initiated more than 48 h after diagnosis of on mechanical ventilation, as well as patients who received remdesivir, were excluded. The main outc were in-hospital mortality and the occurrence of de-novo ventricular arrhythmias ed ventricular tachycardia or ventricular fibrillation).

OVID-19 were hospitalised during the study Findings 96032 patients (mean age 53-8 years, 46:395 women were in the treatment groups (1868 received period and met the inclusion criteria. Of the chloroquine, 3783 received chloroquine with eived hydroxychloroquine, and 6221 received hydroxychloroquine with a macrolide) and pati control group. 10 698 (11-1%) patients died in hospital. After controlling for multiple sex, race or ethnicity, body-mass index, underlying lerlying lung disease, smoking, immunosuppressed condition. cardiovascular disease and its risk face and baseline disease severity), w ortality in the control group (9-3%), hydroxychloroquine (18-0%; bazard ratio 1-335, 95% 1-2 457), hydro-ychloroquine with a macrolide (23-8%; 1-447, 1-368-1-531), chloroquine (16-4%; 1-365, 1818-1-531). chloroquine with a macrolide (22-2%; 1-368, 1-273-1-469) were each in-hospital mortality. Compared with the control group (0-3%). 935-2-900, bydroxychloroquine with a macrolide (8-1%; 5-106, 4-106-5-983). hydroxychloroquine (6 chloroquine (4-3%: independently associate 0 4 -596), and chloroquine with a macrolide (6 -5%; 4 -011, 3 -344 4 -812) were MA 02215, USA d risk of de-novo ventricular arrhythmia during hospitalisation.

ifirm a benefit of hydroxychloroquine or chloroquine, when used alone or with spital outcomes for COVID-19. Each of these drug regimens was associated with decreased a macro leased frequency of ventricular arrhythmias when used for treatment of COVID-19.

ey Distinguished Chair in Advanced Cardiovascular Medicine at Brigham and Women's Hospital.

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Introduction

The absence of an effective treatment against severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection has led clinicians to redirect drugs that are known to be effective for other medical conditions to the treatment of COVID-19. Key among these repurposed therapeutic agents are the antimalarial drug chloroquine

drugs have been shown in laboratory conditions to have antiviral properties as well as immunomodulatory effects.44 However, the use of this class of drugs for COVID-19 is based on a small number of anecdotal experiences that have shown variable responses in uncontrolled observational analyses, and small, openlabel, randomised trials that have largely been and its analogue hydroxychloroquine, which is used for inconclusive." The combination of hydroxychloroquine the treatment of autoimmune diseases, such as systemic with a second-generation macrolide, such as azithrolupus erythematosus and rheumatoid arthritis. These mycin (or clarithromycin), has also been advocated,

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Heart and Vascolar Center and Chicago, R., USA (1.5 Decar MD): Underruity Heart Centile. University Hospital Zookts of Utals, Salt Lake City, UT, USA LA N'PURE MED'S AMBRICA.

Prof Manderp & Mintro, Brigham and Women's Hospital Hourt and dently Medical School, Rolleds. dently

Retraction—Hydroxychloroquine or chloroquine with or without a macrolide for treatment of COVID-19: a multinational registry analysis

After publication of our Lancet Article, several concerns We all entered this collaboration to contribute Published Online were raised with respect to the veracity of the data in good faith and at a time of great need during June 4.70.70 and analyses conducted by Surgisphere Corporation the COVID-19 pandemic. We deeply apologise to and its founder and our co-author, Sapan Desai, in you, the editors, and the journal readership for any our publication. We launched an independent thirdparty peer review of Surgisphere with the consent of caused. Sapan Desai to evaluate the origination of the database elements, to confirm the completeness of the database,

and to replicate the analyses presented in the paper. Our independent peer reviewers informed us that Surgisphere would not transfer the full dataset, client contracts, and the full ISO audit report to their servers for analysis as such transfer would violate client agreements and confidentiality requirements. As such, our reviewers were not able to conduct an independent and private peer review and therefore notified us of their withdrawal from the peer-review process.

We always aspire to perform our research in accordance with the highest ethical and professional guidelines. We can never forget the responsibility we have as researchers to scrupulously ensure that we rely on data sources that adhere to our high standards. Based on this development, we can no longer vouch for the veracity of the primary data sources. Due to this unfortunate development, the authors request that the paper be retracted.

embarrassment or inconvenience that this may have

MRM reports personal fees from Abbott, Medtronic, Janssen, Roivant, Triple Gene, Mesoblast, Baim Institute for Clinical Research, Portola, Bayer, NupulseCV, FineHeart, and Leviticus. FR has been paid for time spent as a committee member for clinical trials, advisory boards, other forms of consulting, and lectures or presentations; these payments were made directly to the University of Zurich and no personal payments were received in relation to these trials or other activities since 2018. Before 2018 FR reports grants and personal fees from SJM/Abbott, grants and personal fees from Servier, personal fees from Zoll, personal fees from Astra Zeneca, personal fees from Sanoti. grants and personal fees from Novartis, personal fees from Amgen, personal fees from BMS, personal fees from Pfizer, personal fees from Fresenius, personal fees from Vifor, personal fees from Roche, grants and personal fees from Bayer, personal fees from Cardiorentis, personal fees from Boehringer ingelheim, other from Heartware, and grants from Mars. ANP declares no

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Mehra MR, Desai SS, Ruschitzka F, Patel AN, Hydroxychloroquine or chloroquine with or without a macrolide for treatment of COVID-19: a multinational registry analysis. Lancet 2020; published online May 22. https://doi.org/10.1016/S0140-5736(20)31180-6.

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Microbial Pathogenesis

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China": Progress and challenges, Chronic Diseases and Translational Medicine, https://doi.org/10.1016/j.cdm.209.04.001

Letter

Breakthrough: efficacy in treat clinical studies

Jianjun Gaot. , Zhenxu

Department of Pharmacology, Scho Department of Pharmacy, Quagdao

SUMMARY The coronavi

to discover treatment of associated m to be include of Pneumon Republic of C

COVID-19, S

The coronavirus disease emerged in December 20 with cases now confirmed of February 16, 2020, the infections and 1,770 deaths i infections in Japan (1). A gre made to find effective drugs ag On February 17, 2020, the St. a news briefing indicating the an old drug for treatment of marked efficacy and accep COVID-19 associated pneum trials conducted in China (3).

In the early in vitro studie to block COVID-19 infect concentration, with a ha concentration (EC+c) of 1.13 concentration (CCm) greater th of subsequent clinical trial ChiCTR2000029935, ChiCTR2000029898. ChiCTR2000029837 ChiCTR2000029803, ChiCTR2000029761 ChiCTR2000029740. ChiCTR2000029559, and Ch been quickly conducted in (and safety of chloroquine or h treatment of COVID-19 assoc

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Chronic Diseases and Translational Medicine use (xxxx) xxx

Editorial

Interpretation of the 7th edition of the "diagnos guidelines of coronavirus disease 2019 in Chin challenges

Li-Xin Xie

Center of Pulmonary and Critical Care Medicine, Chinese PLA General Haspital, Be

Received 22 March 2020 Available online www

Keywords: SARS-CoV-2; COVID-19; Coronavirus disease; Diagnosis and treatment

Since the first patient infected with the novel coronavirus (SARS-CoV-2) was identified in December 2019, the cumulative number of confirmed cases of coronavirus disease 2019 (COVID-19) has exceeded 2,100,000 and has resulted in more than 140,000 deaths globally, as of April 17, 2020. The progression of the epidemic can be divided into two phases. The first phase, which started in December 2019 and ended in February 2020, primarily involved Chinese mainland, which battled the epidemic. The second phase, from February 2020 until now, involves countries other than China that have become the primary battlefields for the virus, whereas the epidemic in Chinese mainland has been largely contained. A review of past experiences and lessons learned suggests that the 1st Trial Edition of the "Novel Coronavirus Pneumonia (COVID-19) Diagnosis and Treatment Guidelines in China", which was released as early as January 23, 2020, largely owing to the Chinese government's prompt response and assemblage of experienced experts from the National

E-mail address: sick 101 to 126.com Peer review under responsibility of Chinese Medical Association.



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COVID-19

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The early prediction and evaluation of disease severity are extremely important for patient prognosis. However, because COVID-19 is a novel disease, clinical experience summaries can only be created instep with the treatment process. Clinical predictive markers used to guide treatment can only be promptly established by reviewing successful treatment outcomes and data accumulated from past experiences. Compared with the previous versions, the 7th edition guidelines have information regarding clinical warning signs for severe and critical cases. For adults, these include the following: progressive reduction of pe-

nucleic acid detection, peripheral blood IgM and IgG

tests are highly useful for the diagnosis of COVID-19,

especially in evaluating the therapeutic effect of

plasma therapy and the status of the patient's autoim-

Clinical warning signs of severe and critical illness

ripheral blood lymphocyte levels, progressive increase in peripheral inflammatory cytokine levels, such as interleukin (IL)-6 and C-reactive protein (CRP), progressive increase in lactate levels, and rapid progression of lung lesions in the short term. Previous studies have reported that 80% of patients diagnosed with COVID-19 experience mild-to-moderate symptoms. However, some patients can suddenly deteriorate and rapidly progress to a severe or critical status, which consequently increases the mortality rate. 11-13 In contrast, the establishment of clinical warning signs enables prompt identification of these patients so that their treatment and care can be prioritized and delivered in a timely manner to reduce mortality. However, whether the implementation of these indicators can play a role as an early indication of disease severity

Glucocorticoid therapy

requires further clinical verification.

The role of corticosteroid treatments remains controversial. Although no changes associated with this topic were made in the 7th edition guidelines, in the "Diagnosis and Treatment Guidelines for Severe and Critical COVID-19 Cases (Trial 2nd Edition)", recommendations regarding glucocorticoid therapy included: "As there is currently no clinical evidence of glucocorticoid therapy improving the prognosis of COVID-19 patients, it is not recommended for routine use. For patients exhibiting progressive deterioration in oxygenation, rapid radiological progression, and high levels of cytokine storms, short-term administration of

methylprednisolone at a dose of 40 mg every 12 h for a total of 5 days can be considered. And before administration, contraindications to plucocorticoid therapy should be confirmed"

In addition, the Chinese military and local government units have published consensus statements or instructions that have cautiously recommended shortterm administration of a certain dose of glucocorticoids in patients with early-stage COVID-19 whose condition is rapidly deteriorating.3-5 This is further supported by our data from COVID-19 patients in Beijing, China, who received glucocorticoids, which found that glucocorticoid administration was an independent risk factor associated with the development of acid-base disorder. We believe that, despite having immunosuppressive effects, glucocorticoids can inhibit the "cytokine storm". It can also induce other problems, such as susceptibility to secondary infections, disturbance of homeostasis, and prolonged virus shedding. Therefore, it is essential to individualize the administration of glucocorticoids. Based on these data, we recommend that glucocorticoid therapy can be implemented if the disease is in its early stage (within 10 days of onset), progressing rapidly (rapid. disease deterioration within 24 h as well as a substantial increase in exudative pulmonary lesions), accompanied by a severe cytokine storm (IL-6/CRP values > 10 times the normal value), and the patient does not exhibit any obvious cellular immunosuppression (absolute lymphocyte count of >0.6 × 10%) L). The drug should be administered at an appropriate dosage (medium dose of 40-160 mg/day) for a shortterm course (usually 5 days and no more than 7-10

Treatment of severe and critical cases

Due to the accumulation of clinical experience, treatment recommendations for severely and critically ill patients have been significantly improved and refined in the 7th edition guidelines, providing supplementary information for all treatment sections. These include emphasizing the importance of lung-protective ventilation, defining indications of extracorporeal membrane oxygenation and continuous renal replacement therapy in detail, as well as close monitoring of hemodynamic data. In terms of new treatment methods, in addition to the provision and refinement of specific indications for convalescent plasma and tocilizamab therapy, the 7th edition guidelines also include relevant recommendations and suggestions regarding the treatment of children and pregnant women.

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cychloroguine, tonavir and chloroquine in diac adverse drug reactions Pharmacovigilance Centers

rda,1, Serena Romania,1, Delphine Viarda, Nadège Parassola, lleminb, Laurent Chouchanac, Milou-Daniel Drici 3,4, work of Pharmacovigilance Centers

tment of pharmacology, Pasteur hospital, Bât J4, 30, avenue de la 001 Nice Cedex 01, France acovigilance, 21079 Dijon, France acovigilance Paris-Cochin, 75014 Paris, France

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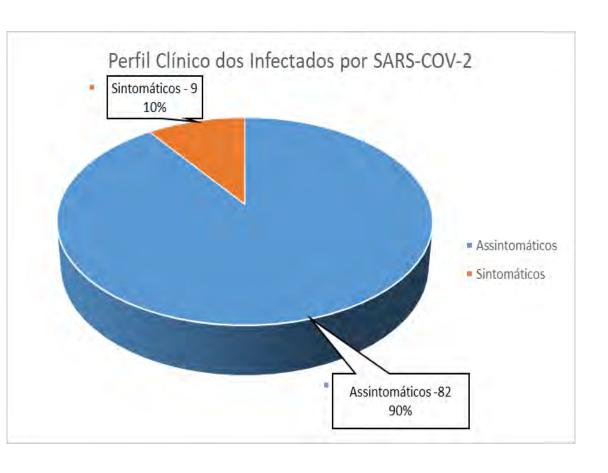
an unprecedented challenge for physicians and scientists. Several ised with not much evidence of their efficacy such as hydroxychloronavir-ritonavir. Yet, the cardiac safety of these drugs in COVID-19 are known to foster cardiac adverse ADRs, notably QTc interval cardiogram and its arrhythmogenic consequences.

h, 2020, the French Pharmacovigilance Network directed all cardiac ociated with "off-label" use of hydroxychloroquine, azithromycin OVID-19 to the Nice Regional Center of Pharmacovigilance. Each ovigilance first assessed causality of drugs. We performed a specific liverse drug reactions amidst an array of risk factors, reassessed the mated their incidence in coronavirus disease 2019.

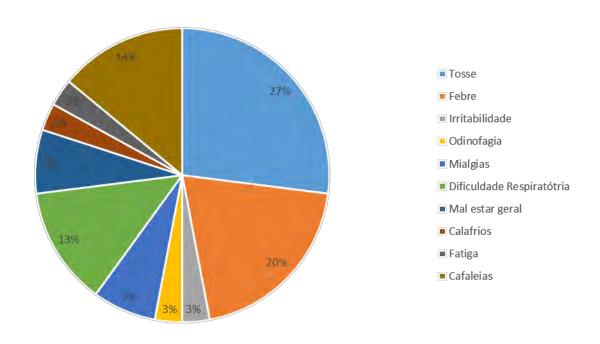
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Actualmente



PERFIL CLÍNICO DOS 9 DOENTES COM COVID-19



Fonte: Relatório, DNSP de 1-7 Junho, 2020

Actualmente.....

Qual a estratégia terapêutica

Assintomáticos

- Comprovada ausência de alterações clínicas, laboratoriais e imagiológicas.
- Vigilância diária, isolamento institucional /domiciliar (MINSA).
- Sem tratamento farmacológico.
- Apoio Psicológico.

Sintomáticos Leves e Moderados

- Avaliação diária das alterações clínicas, laboratoriais, imagiológicas e controlo da progressão dos sintomas e sinais de complicações.
- Tratamento sintomático, antibioterapia se sinais de sobreinfecção.
- Avaliar antimaláricos e antivirais no contexto de ensaios clínicos.

Doentes

Graves

- •Internamento em UCI. Não se recomenda o uso de imunomodeladores
- Ceftriaxona 2g/dia (ou 1 g de 12/12 h) EV ou Amoxicilina/ácido clavulânico 2,2 g 8/8 h EV
- + Azitromicina 500mg/dia EV ou Claritromicina 500mg 12/12 h EV.
- Avaliar o uso de antimaláricos e antivirais no contexto de ensaios clínicos.
- Avaliar o uso de corticoides em doentes com critérios de ARDS estádio II/III, em doses baixas a moderadas.

CONCLUSÕES

As medidas tomadas de prevenção (não farmacológicas), permitiram:

1.Diminuir o impacto da velocidade de propagação/ transmissão comunitária do vírus.

2. Reduzir o número de casos clínicos graves e óbitos

3. Modelar o comportamento individual e social, no país

4. Melhorar o nível organizacional e educativo das diferentes equipas à nível do sector.





MUITO OBRIGADA