درمان های اختصاصی کووید۱۹

نخستین کنگره دیجیتال مدیریت و درمان COVID-19

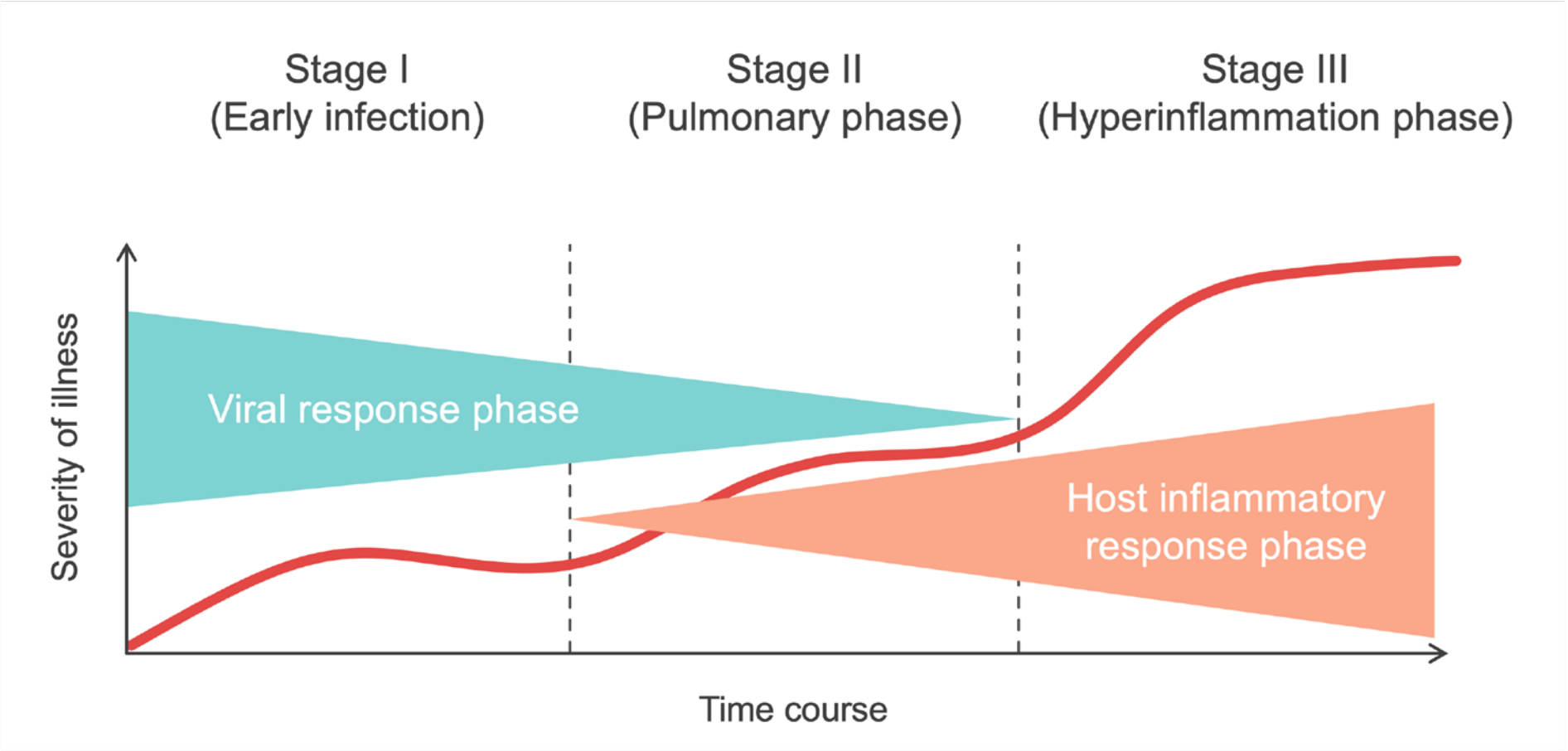
دکتر حمید عمادی
متخصص بیماریهای عفونی
استاد دانشگاه علوم پزشکی تهران

جمهوری اسلامی ایران
وزارت بهداشت، درمان و آموزش پزشکی
ستاد مقابله با کرونا در کلانشهر تهران

کنگره دیجیتال مدیریت و درمان
COVID-19

دانشگاه علوم پزشکی
و خدمات بهداشتی درمانی تهران

Introduction



کنگره دیجیتال مدیریت و درمان
COVID-19

Antiviral Drugs

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Remdesivir

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Remdesivir

A novel nucleotide analogue that suggest **reduces time to recovery**

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COVID-19


Sponsor: Gilead Sciences, Inc.,
333 Lakeside Drive, Foster City,
USA. Tel.: +1 800 445 3235
Site No.:
Patient ID:
Investigator:
Protocol:
Lot: EW2005A1-A
Expiry Date: 06/2024
90284604
For Clinical Trial Use Only
Remdesivir (GS-5734™) for Injection
100 mg Contents: Each Vial Contains
Lyophilized Powder for Intravenous Use
Store below 30 °C (86 °F). Directions
See Clinical study protocol for dosage
Administration. Keep out of reach of
Caution: New Drug - Limited by
Federal (USA) law to investigational
GILEAD
For Clinical Trial Use Only
Remdesivir (GS-5734
100 mg Contents:
Lyophilized Powder for
Store below 30 °C (86
See Clinical study protocol
Administration. Keep
Caution: New Drug - L
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GILEAD
Clinical Trial Use Only
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Clinical study protocol
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tion: New Drug - Limited
eral (USA) law to investig
GILEAD

注射用瑞德西韦

Remdesivir for Injection

（仅供临床研究使用）

(For Clinical Trial Use Only)

规格： *Strength:*	50mg （以 $C_{27}H_{35}N_6O_8P$ 计）
批号： *Lot No.:*	PRDA200203
生产日期： *Date of Manufacture:*	2020.02.22
有效期： *Expiry Date:*	2021.01

贮藏：密闭，在 30℃以下保存

Store: seal, store below 30℃

数量： *Quantity:*	11 瓶 11 vials

Remdesivir

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Remdesivir

In the United States, the Food and Drug Administration (FDA) approved remdesivir for hospitalized children ≥12 years and adults with COVID-19, **regardless of disease severity**

The suggested adult dose is 200 mg intravenously on day 1 followed by 100 mg daily for 5 days total

The remdesivir is **not** recommended in patients with an estimated glomerular filtration rate (eGFR) <30 mL/min per 1.73 m^2

Liver enzymes should be checked before and during remdesivir administration; alanine aminotransferase elevations >10 times the upper limit of normal should prompt consideration of remdesivir discontinuation.

Remdesivir should not be used with hydroxychloroquine or chloroquine because of potential drug interactions.

Hydroxychloroquine/chloroquine

In June 2020, the US FDA revoked its emergency use authorization for these agents in patients with severe COVID-19

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Hydroxychloroquine/chloroquine

Data from controlled trials suggest that they do **not** provide a clinical benefit for patients with COVID-19 hospitalized patients

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Hydroxychloroquine/chloroquine

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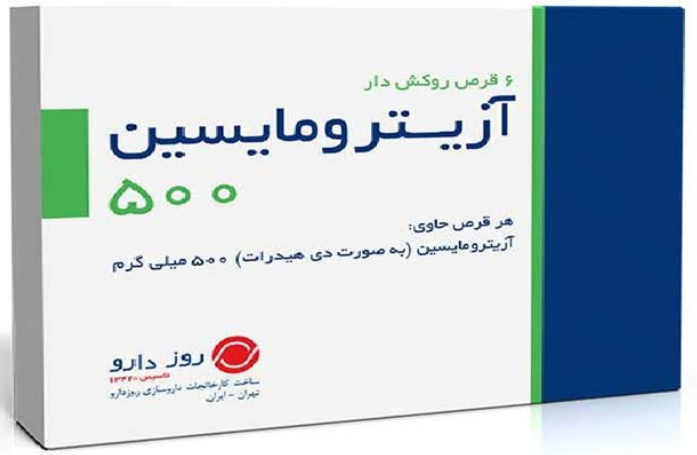
COVID-19

Hydroxychloroquine/chloroquine

Azithromycina (with or without hydroxychloroquine



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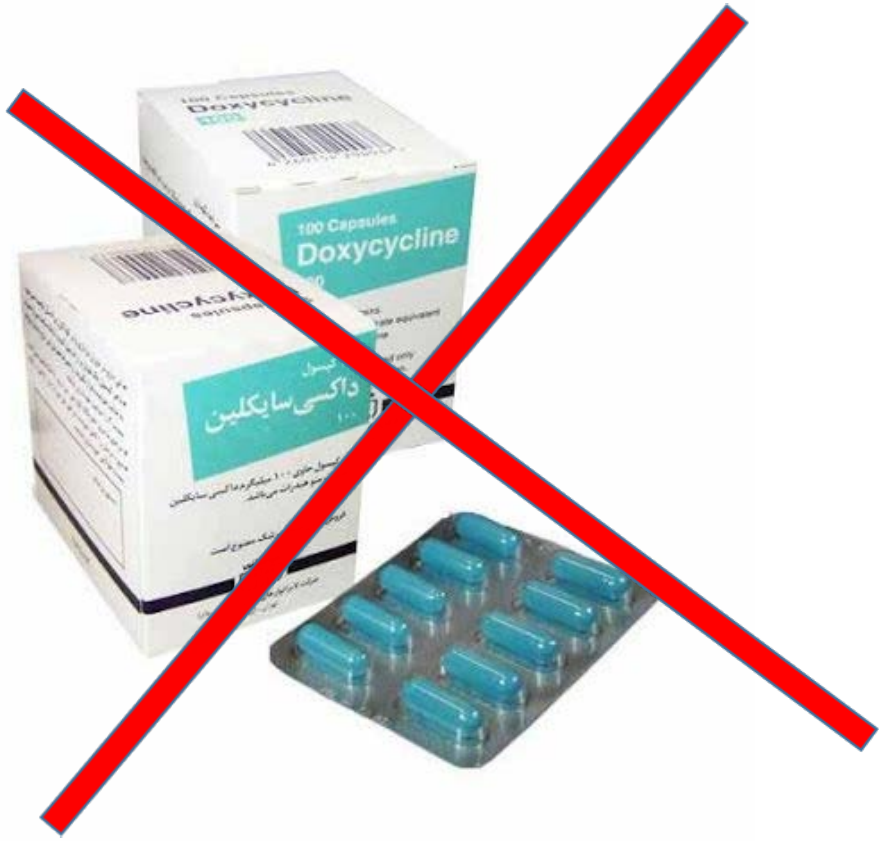

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Favipiravir

RNA polymerase inhibitor that is available for treatment of influenza

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COVID-19


海复康®
法维拉韦片
Favipiravir Tablets
请仔细阅读说明书并在医师指导下使用
批准文号：国药准字H20203029
【规　　格】0.2g
【包　　装】铝塑泡罩包装，10片/板，4板/袋。
【贮　　藏】不超过30℃密闭保存。
【不良反应】详见说明书。
【注意事项】详见说明书。
【禁　　忌】怀孕和准备怀孕的妇女禁用。(详见说明书)
0.2g
10片×4板
浙江海正药业股份有限公司
ZHEJIANG HISUN PHARMACEUTICAL CO.,LTD.
法维拉韦片
Favipiravir Tablets
规　　格：0.2g
产品批号：22002162
有效期至：2022.01
生产企业：浙江海正药业股份有限公司
海复康®
法维拉韦片
Favipiravir Tablets
0.2g
10片×4板
浙江海正药业股份有限公司
ZHEJIANG HISUN PHARMACEUTICAL CO.,LTD.

Favipiravir

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Lopinavir-Ritonavir

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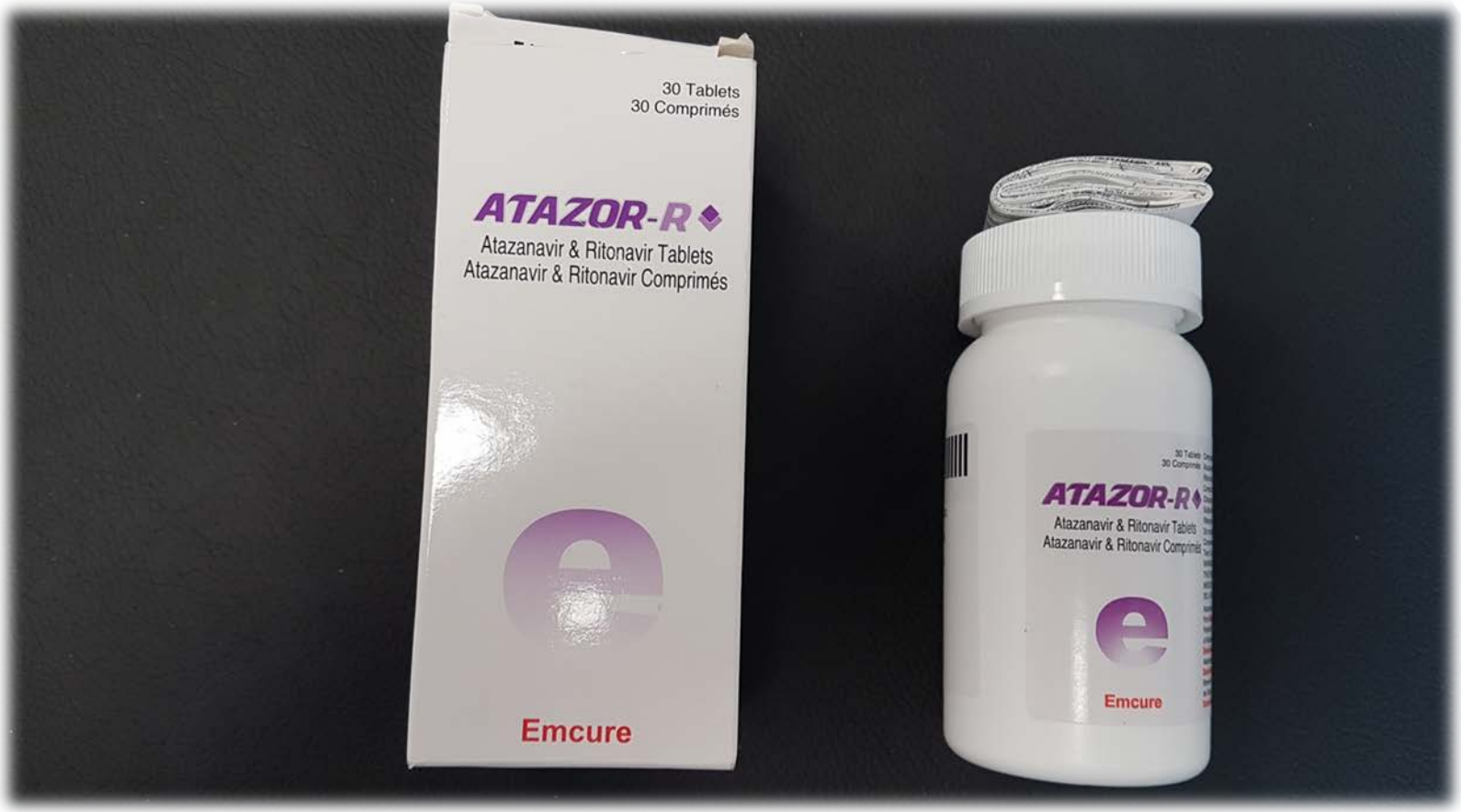
Other HIV Protease Inhibitors



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Ivermectin

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COVID-19


Ivermectin 3
Each tablet contains Ivermectin 3 mg
4 tablets
M.A. Holder: Tadbir Kala Jam/Tehran, Iran | Manufactured by Europhartech/France


ایـورمکتیـن ۳
هر قرص حاوی ایورمکتین ۳ میلی‌گرم
tekaje
دارنده پروانه ساخت: تدبیر کالای جم / تهران، ایران | محل ساخت: یوروفارتک / فرانسه
GTN 06260589801311
UID 13667015821288671654
LOT EU2002
EXP 2022/01/13
SMS ۲۰۰۰۸۸۲۲
Tel:۰۲۱-۶۱۸۵
www.ttac.ir

Sofosbuvir plus Daclatasvir

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Sofosbuvir plus Daclatasvir

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Immune-Based Therapy

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Dexamethasone and other Glucocorticoids

Dexamethasone and other Glucocorticoids

Dexamethasone reduced 28-day mortality

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Dexamethasone

For **severely ill patients** with COVID-19 who are on supplemental oxygen or ventilatory support

Dexamethasone at a dose of **6 mg daily for 10 days** or **until discharge**

dexamethasone (or other glucocorticoids) **not** be used for either prevention or treatment of **mild to moderate** COVID-19 (patients not on oxygen).

Convalescent plasma

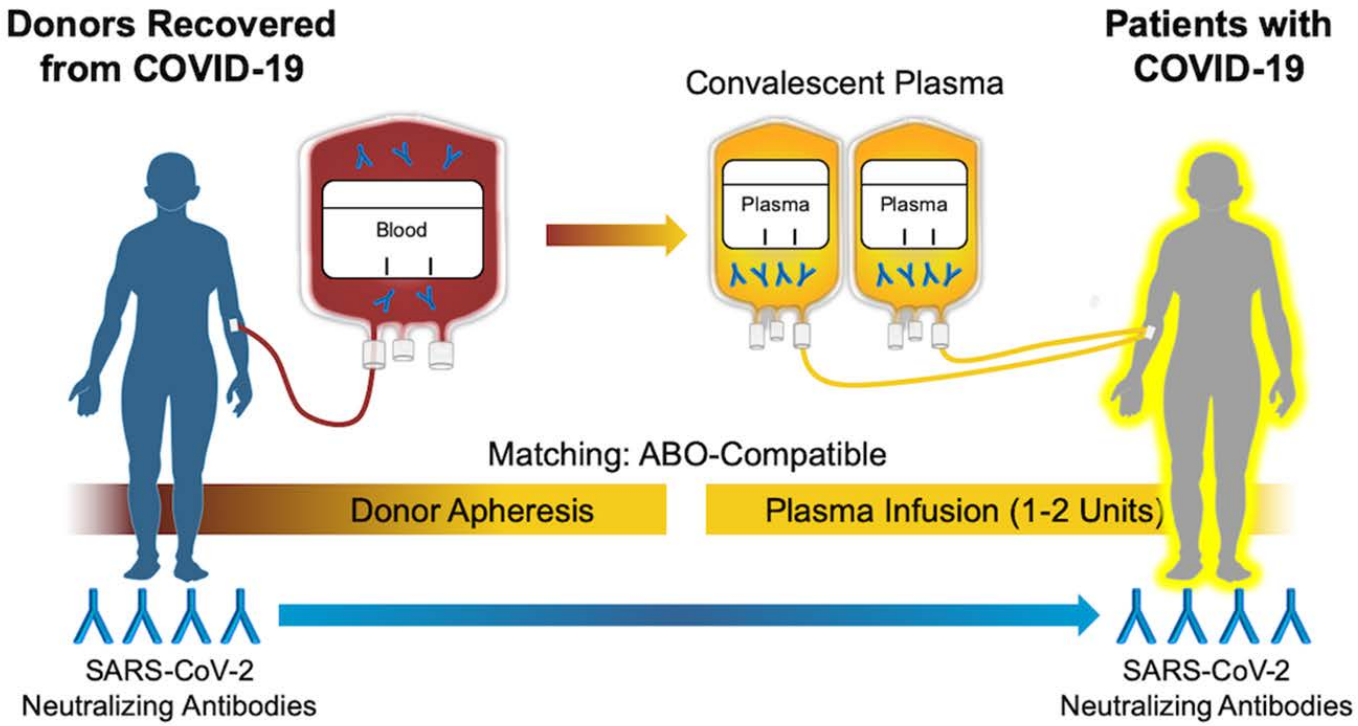

Illustration: David H. Spach, MD

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Convalescent plasma

Neutralizing antibodies passive antibody-based immunity

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Convalescent plasma

convalescent plasma provides clinical benefit when

- it **contains high neutralizing antibody** titers
- **given early in the course of disease** (in patients who do not require mechanical intubation)
- for individuals with deficits in antibody productio (eg, those receiving anti-CD20 therapies)

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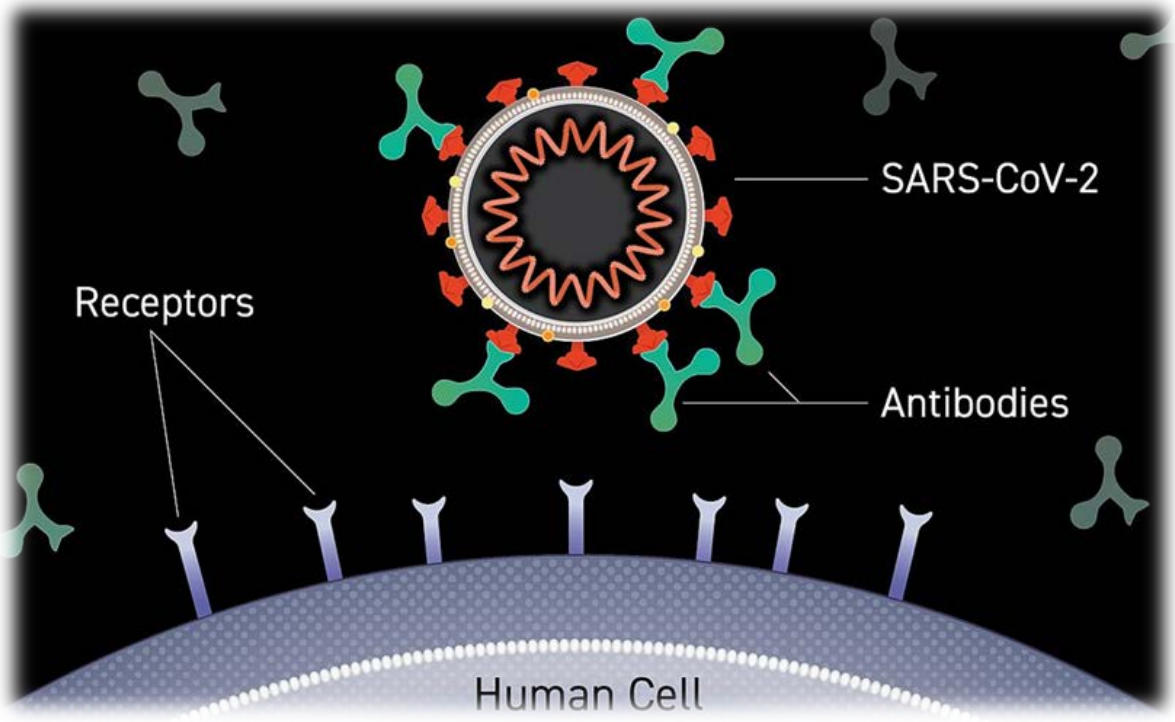
Monoclonal antibody

Trials of monoclonal antibodies that have been developed to neutralize SARS-CoV-2 by targeting the SARS-CoV-2 spike protein and preventing viral cell entry



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PREFIX: "FANCIFUL" INFIX: TARGET OR DISEASE AREA SUFFIX: ALWAYS "-MAB"

Bamlani- -vi- -mab

(denoting virus, or viral)

(short for monoclonal antibody)

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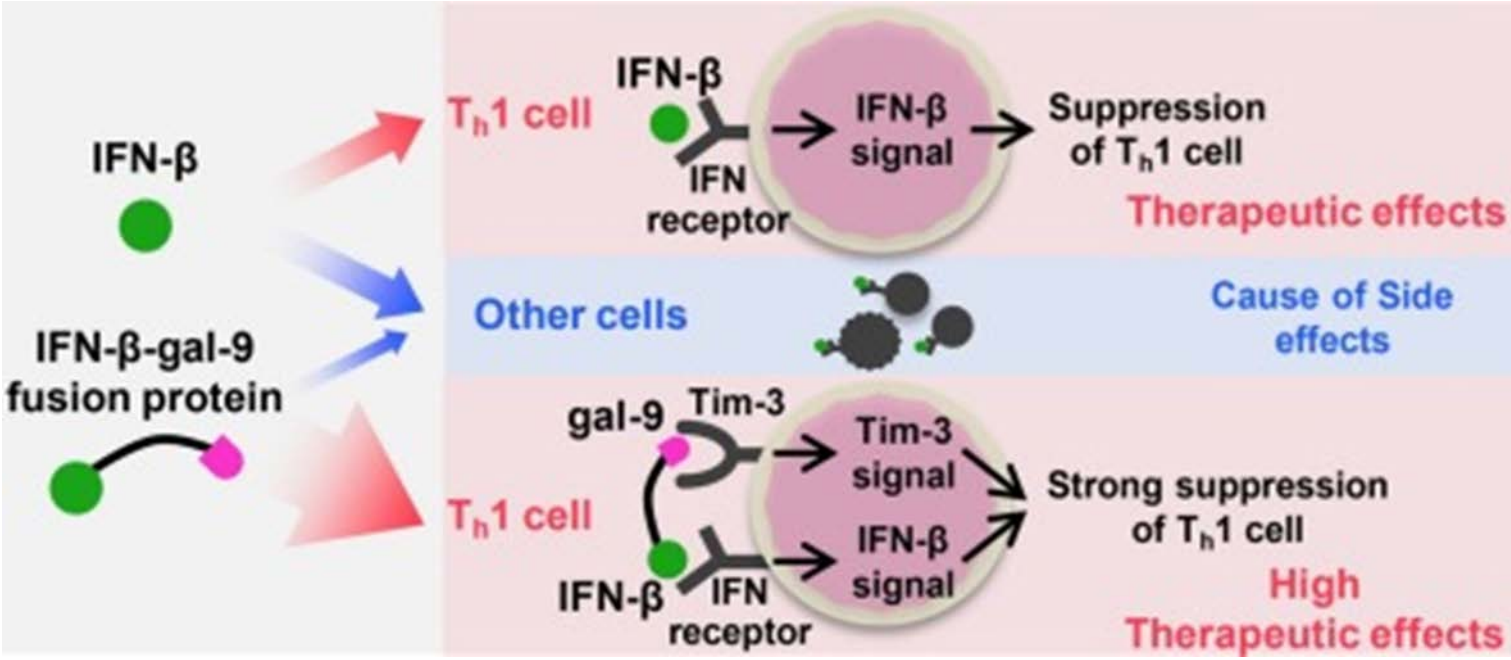
Interferons

Interferons are a **family of cytokines** with antiviral properties. They have been suggested as a potential treatment for COVID-19 because of their in vitro and in vivo antiviral properties.



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Interferons

Rebif®
(interferon beta-1a)
subcutaneous injection

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Interferons

Interferon ß 1a

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Interferons

Interferon ß 1b

Interferons

Some trials have suggested a clinical benefit with interferon beta for patients with COVID-19

کنگره دیجیتال مدیریت و درمان
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Interferons

Adverse Effects

- Flu-like symptoms
- Nausea
- Fatigue
- Weight loss
- Hematological toxicities
- Elevated transaminases
- Psychiatric problems (e.g., depression)

Inhaled interferon beta

Inhaled interferon beta, an investigational formulation of the drug delivered by nebulizer, is also being evaluated.

Other Immunomudulators

- **interleukin (IL)-1 inhibitors** such as anakinra
- **Interleukin (IL)-6 inhibitors**
  - ✓anti-IL-6 receptor monoclonal antibodies (e.g., sarilumab, tocilizumab)
  - ✓anti-IL-6 monoclonal antibodies (siltuximab)
- **Bruton's tyrosine kinase (BTK) inhibitors**, such as acalabrutinib, ibrutinib, and zanubrutinib
- **Janus kinase (JAK) inhibitors**, such as baricitinib, ruxolitinib, and tofacitinib

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Tocilizumab

recombinant humanized anti-IL-6 receptor **monoclonal antibody**

Tocilizumab can be given with glucocorticoids but **should not be administered** if **more than 24 hours** have elapsed since

- **intensive care unit admission**
- **Initiation of respiratory support**

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Tocilizumab

IV

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Tocilizumab

SC

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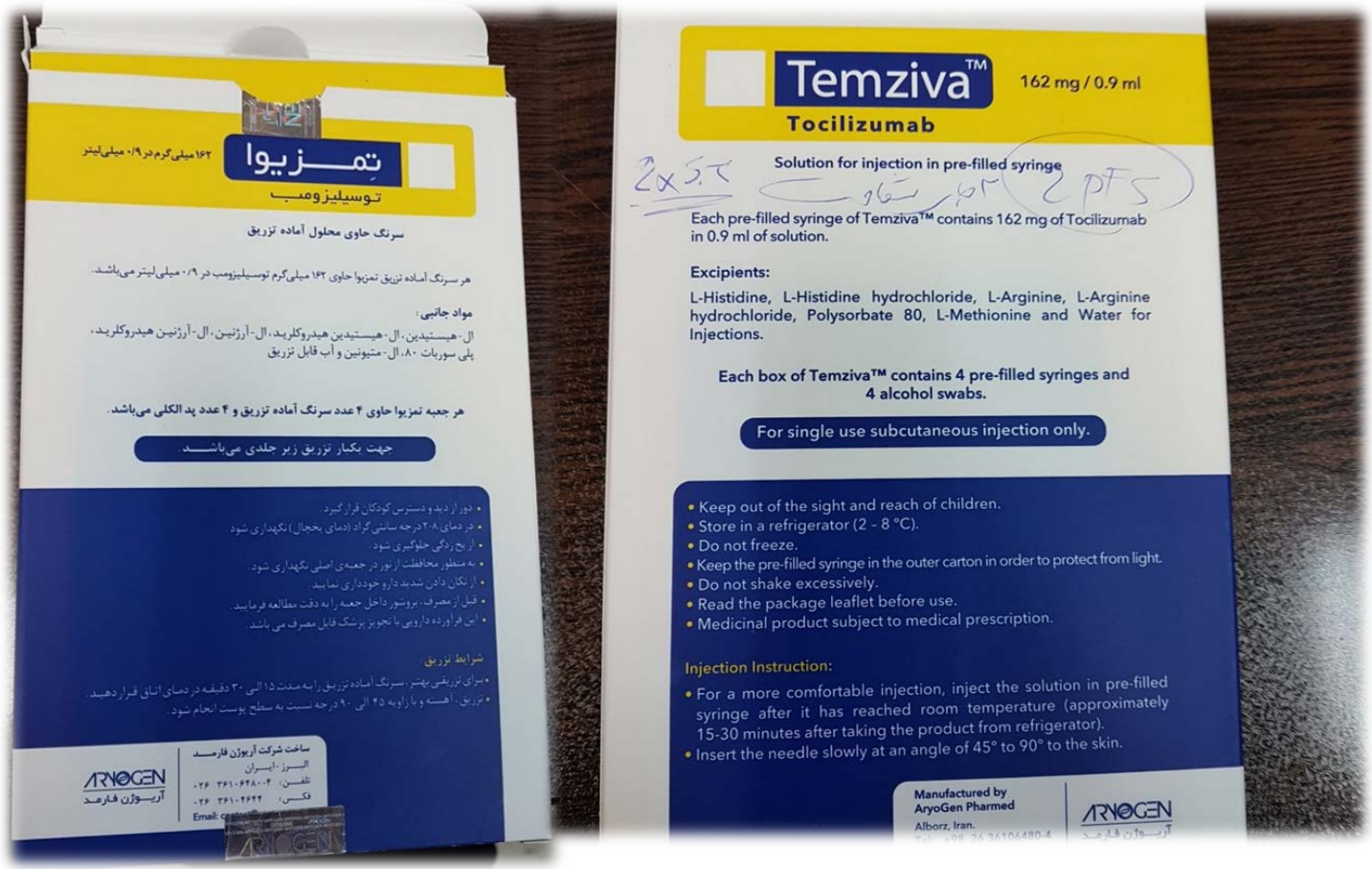
Tocilizumab



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Tocilizumab

The primary laboratory abnormalities reported with tocilizumab treatment are

- elevated liver enzyme levels (dose dependent)
- Neutropenia or thrombocytopenia
- Increased risk for serious infections (e.g., TB, bacterial or fungal infections)
- Bowel perforation

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Baricitinib

Baricitinib is a Janus kinase inhibitor used for treatment of ***rheumatoid arthritis.***

In addition to **immunomodulatory effects,** it is thought to have potential **antiviral effects** through **interference in viral entry**.

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Baricitinib

In the United States, the FDA issued an EUA for

baricitinib (4 mg orally once daily for up to 14 days) to be used in combination

with remdesivir in patients with COVID-19

reduced time to recovery (defined as hospital discharge or continued hospitalization without need for oxygen or medical care)

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Adjunctive Therapy

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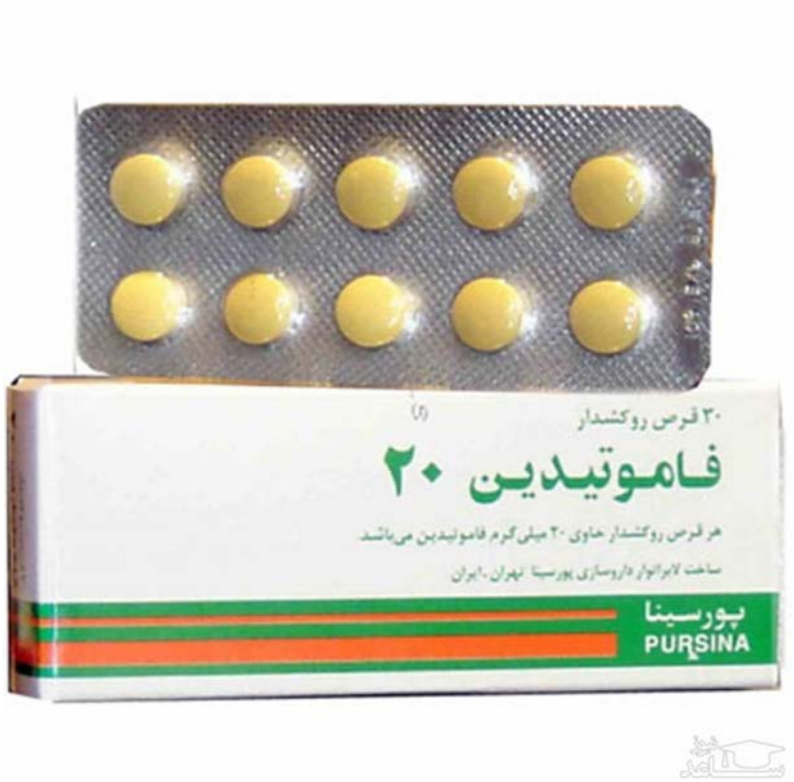
Famotidine



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Colchicine


Rx PRESCRIPTION DRUG
10 BLISTERS x 10 TABLETS
COLCHICINE
Colchicine 1 mg
Manufactured by:
DAVI PHARM CO., LTD
Lot M7A, D17 St., My Phuoc 1 Ind. Park,
Thoi Hoa commune, Ben Cat district,
Binh Duong province, Vietnam
WHO
GMP


مفید
مداسین ۱ میلی گرم
کلشی سین
هر قرص خط دار حاوی :
کلشی سین ۱ میلی گرم
۱۰ قرص خط دار

Vitamin D

Vitamin C

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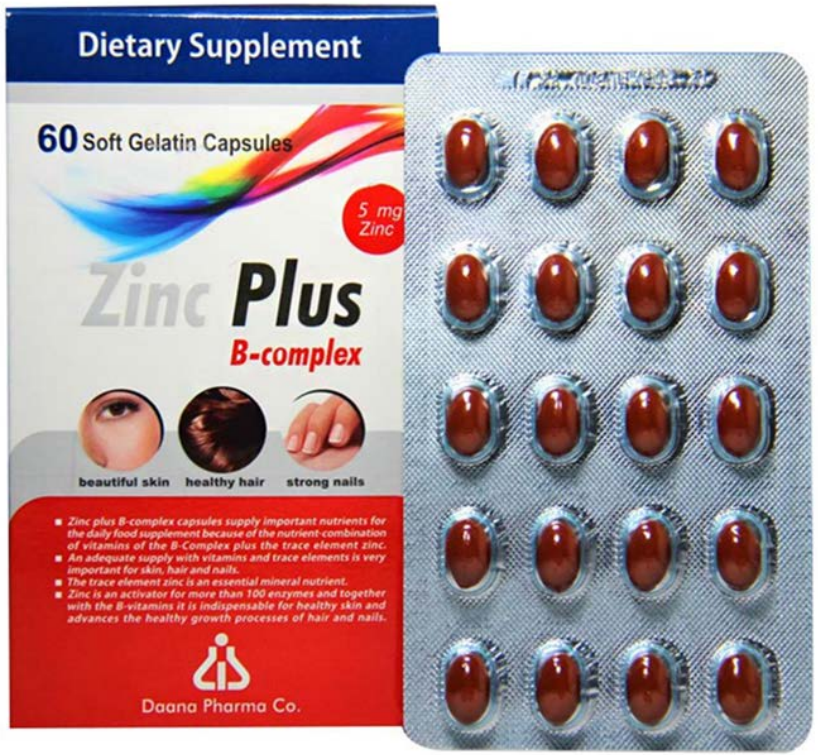
Zinc



Fluvoxamine

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COVID-19

And to be continued …

سپاس
از توجه شما

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