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Biblioteca di  
scienze del Farmaco

# LABORATORIO DI RICERCA BIBLIOGRAFICA PER GLI STUDENTI DI FARMACIA TERZO MODULO

## LE BANCHE DATI PER LE SCIENZE DEL FARMACO



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### CODIFA - L'Informatore Farmaceutico

Codifa è un motore di ricerca per tutti i prodotti medicinali, salutistici e veterinari commercializzati in Italia. Contiene informazioni su: farmaci, parafarmaci, prodotti salutistici, interazioni tra farmaci, alimenti e prodotti naturali, nonché informazioni sulle aziende del settore presenti in Italia.

Auth-proxy



### AdisInsight

Contiene informazioni scientifiche sui farmaci e il loro sviluppo sul mercato a livello internazionale (inclusi trial e brevetti). Contiene anche sezioni dedicate all'impiego dei farmaci in relazione al trattamento delle malattie e sul processo di decision-making relativo alla produzione e messa in commercio dei farmaci.

Auth-proxy



### Medicamenta

Fonte di informazione esaurente sui principi attivi e su ogni molecola impiegata in terapia: denominazione e sinonimi, caratteristiche chimico-fisiche, saggi di identificazione e purezza, proprietà farmacologiche, tossicità, indicazioni terapeutiche, posologia, effetti collaterali, controindicazioni e precauzioni d'uso, interazioni e sovradosaggio.

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### Micromedex

Multibanca dati fulltext su farmacologia (Drugdex, Martindale, Interaction Checking, Italian Drug Database), teratogenesi e rischio riproduttivo (Reprorisk), medicina alternativa (Alternative medicine), medicina generale (Disea).

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## Piccola guida alle principali e più utilizzate banche dati per le scienze del farmaco

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Safety and efficacy of the BNT162b2 mRNA Covid-19 vaccine

Polack F.B.<sup>a</sup>, Thomas S.J.<sup>c</sup>, Kitchin N.<sup>c</sup>, Absalon J.<sup>d</sup> , Gurtman A.<sup>d</sup>, Lockhart S.<sup>a</sup>, Perez J.L.<sup>f</sup>, Marc G.P.<sup>b</sup>, Moreira E.D.<sup>h</sup>, Zerbini C.<sup>i</sup>, Bailey R.<sup>a</sup>, Swanson K.A.<sup>d</sup>

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<sup>a</sup> Fundacion INFANT, Buenos Aires, Argentina  
<sup>b</sup> iTrials-Hospital Militar Central, Buenos Aires, Argentina  
<sup>c</sup> State University of New York, Upstate Medical University, Syracuse, NY, United States  
<sup>d</sup> Vaccine Research and Development, Pfizer, Pearl River, NY, United States  
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Abstract

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Abstract

BACKGROUND Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection and the resulting coronavirus disease 2019 (Covid-19) have afflicted tens of millions of people in a worldwide pandemic. Safe and effective vaccines are needed urgently. METHODS In an ongoing multinational, placebo-controlled, observer-blinded, pivotal efficacy trial, we randomly assigned persons 16 years of age or older in a 1:1 ratio to receive two doses, 21 days apart, of either placebo or the BNT162b2 **vaccine** candidate (30 µg per dose). BNT162b2 is a lipid nanoparticle-formulated, nucleoside-modified RNA **vaccine** that encodes a prefusion stabilized, membrane-anchored SARS-CoV-2 fulllength spike protein. The primary end points were efficacy of the **vaccine** against laboratory-confirmed Covid-19 and safety. RESULTS A total of 43,548 participants underwent randomization, of whom 43,448 received injections: 21,720 with BNT162b2 and 21,728 with placebo. There were 8 cases of Covid-19 with onset at least 7 days after the second dose among participants assigned to receive BNT162b2 and 162 cases among those assigned to placebo; BNT162b2 was 95% effective in preventing Covid-19 (95% credible interval, 90.3 to 97.6). Similar **vaccine** efficacy (generally 90 to 100%) was observed across subgroups defined by age, sex, race, ethnicity, baseline body-mass index, and the presence of coexisting conditions. Among 10 cases of severe Covid-19 with onset after the first dose, 9

(2022) *Food Control*  
The behavioral immune system and vaccination intentions during the coronavirus pandemic  
Karlsson, L.C., Soveri, A., Lewandowsky, S. (2022) *Personality and Individual Differences*

Novel nucleocapsid protein-targeting phenanthridine inhibitors of SARS-CoV-2  
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Safety and immunogenicity of the SARS-CoV-2 BNT162b1 mRNA vaccine in younger and older Chinese adults: a randomized, placebo-controlled, double-blind phase 1 study  
Li, J., Hui, A., Zhang, X. (2021) *Nature Medicine*

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1 Determination of fentanyl in human plasma and fentanyl and norfentanyl in human urine using LC-MS/MS

54

Citations

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[Huynh, NH; Tyrefors, N; \(...\); Johansson, M](#)

15th International Symposium on Pharmaceutical and Biomedical Analysis

Apr 29 2005 | [JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS](#) 37 (5), pp.1095-1100

Fentanyl, a potent analgesic drug, has traditionally been used intravenously in surgical or diagnostic operations. Formulations with fentanyl in oral transmucosal delivery system and in transdermal depot-patch have also been developed against breakthrough pain in cancer patients. In this report, LC-MS/MS methods to determine fentanyl in human plasma as well as fentanyl and its main metabolite, ...

Full Text at Publisher

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15

References

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2 Fentanyl concentrations in 23 postmortem cases from the Hennepin County Medical Examiner's Office

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È il motore di ricerca per tutti i prodotti medicinali, salutistici e veterinari commercializzati in Italia.

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**Novità:** Aggiornamenti sulle tabelle delle sostanze stupefacenti

Approfondisci e consulta anche Ricette Mediche, Esenzioni, PHT e molto altro!

**Calcium Carbonicum Dynamis**  
18 LM gocce orali 1 flacone contagocce in vetro in soluzione idroalcolica al 50% v/v da 10 ml

**Calcium Fluoratum Dynamis**  
200 K granuli contenitore multidose in vetro/pp da 6 g (140 granuli) con tappo dispensatore in pp

**Calcium Phosphoricum Dynamis**  
12 LM gocce orali 1 flacone contagocce in vetro in soluzione idroalcolica al 50% v/v da 10 ml

[vai all'archivio >](#)

**Safety Update** 

DEPAMIDE  
SEREPRILE  
PLASIL  
SULAMID

E' possibile visualizzare gli RCP dei farmaci, le precauzioni da valutare e le interazioni.

Le informazioni riportate sono aggiornate in tempo reale attraverso i contatti diretti con le aziende farmaceutiche e parafarmaceutiche e l'utilizzo di fonti ufficiali quali AIFA, EMA, Gazzetta Ufficiale e Ministero della Salute.



**ASPIRINA**

Bayer S.p.A.  
325 mg 10 compresse

Ultimo aggiornamento il: 20/07/2021

Stampa

**Precauzioni da valutare**

**Precauzioni da valutare**

I simboli sono da interpretarsi come segnalazione di precauzione nell'uso, di valutazione del prodotto e dell'eventuale rapporto rischio/beneficio

**N° INTERAZIONI TOTALI: 276**

17 Interazione clinicamente rilevante

158 Interazione rilevante gestibile con aggiustamento del dosaggio

AIC	004763254
TITOLARE	Bayer S.p.A.
CLASSE	C
RICETTA	OTC - medicinale di automedicazione
ATC	N02BA01 - Acido acetilsalicilico
PRINCIPIO ATTIVO	acido acetilsalicilico
GRUPPO TERAP.	Antiaggreganti piastrinici, Antipiretici, Analgesici FANS
PREZZO	€ 6,3
FORMA FARMACEUTICA	compresa
PIANO TERAPEUTICO	No
PHT	No

**RCP**

- ▶ 1 - DENOMINAZIONE DEL MEDICINALE
- ▶ 2 - COMPOSIZIONE QUALITATIVA E QUANTITATIVA
- ▶ 3 - FORMA FARMACEUTICA
- ▶ 4 - INFORMAZIONI CLINICHE
  - 4.1 - Indicazioni terapeutiche
  - 4.2 - Posologia e modo di somministrazione
  - 4.3 - Controindicazioni
  - 4.4 - Avvertenze speciali e precauzioni d'impiego
  - 4.5 - Interazioni con altri medicinali ed altre forme d'interazione
  - 4.6 - Fertilità, gravidanza e allattamento
  - 4.7 - Effetti sulla capacità di guidare veicoli e sull'uso di macchinari
  - 4.8 - Effetti indesiderati
  - 4.9 - Sovradosaggio
- ▶ 5 - PROPRIETÀ FARMACOLOGICHE
  - 5.1 - Proprietà farmacodinamiche
  - 5.2 - Proprietà farmacocinetiche
  - 5.3 - Dati preclinici di sicurezza
- ▶ 6 - INFORMAZIONI FARMACEUTICHE
  - 6.1 - Elenco degli eccipienti
  - 6.2 - Incompatibilità
  - 6.3 - Periodo di validità
  - 6.4 - Precauzioni particolari per la conservazione
  - 6.5 - Natura e contenuto del contenitore
  - 6.6 - Precauzioni particolari per lo smaltimento e la manipolazione
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- ▶ 11 DOSIMETRIA
- ▶ 12 ISTRUZIONI PER LA PREPARAZIONE DI RADIOPARMACI



SISTEMA SUPPORTO PRESCRIZIONE



 Codifa safecare

1 2 3 4 5

Area

Seleziona l'area o l'apparato inerente la patologia di cui è affetto il paziente

<input type="radio"/> Apparato cardiovascolare	<input type="radio"/> Apparato respiratorio	<input type="radio"/> Dermatologia	<input type="radio"/> Endocrinologia e metabolismo
<input type="radio"/> Gastroenterologia	<input type="radio"/> Malattie infettive	<input type="radio"/> Nefrologia e urologia	<input type="radio"/> Neurologia
<input type="radio"/> Oculistica	<input type="radio"/> Oncologia	<input type="radio"/> Ostetricia e ginecologia	<input type="radio"/> Otorinolaringoiatria
<input type="radio"/> Psichiatria	<input type="radio"/> Reumatologia e immunologia		

Avanti



SISTEMA SUPPORTO PRESCRIZIONE

 Codifa **safe care**

1 2  3 4 5

Patologia

Selezione la patologia di cui è affetto il paziente

Asma cronica  Broncopneumopatia Cronica Ostruttiva - Acutizzazione  Ipertensione polmonare  Tosse

*Indietro* *Avanti*



8

BOSENTAN

-

### DA VALUTARE

#### BOSENTAN ACCORD

- 125 mg 56 compresse rivestite con film in blister
- 62,5 mg 56 compresse rivestite con film

Interagisce con

REAGILA (CARIPRAZINA) Enterale (per bocca)



[Interazione di rilevanza clinica, è meglio evitare la cosomministrazione](#)

#### BOSENTAN AUROBINDO

- 125 mg 56 compresse rivestite con film
- 62,5 mg 56 compresse rivestite con film

Interagisce con

REAGILA (CARIPRAZINA) Enterale (per bocca)



[Interazione di rilevanza clinica, è meglio evitare la cosomministrazione](#)



## AdisInsight

Banca dati a pagamento che raccoglie dati su farmaci in sviluppo a livello globale, relativi a studi clinici e a casi di reazioni avverse ai farmaci.

Presenta il panorama completo a partire dagli stadi precoci di ricerca fino allo sviluppo clinico e agli aspetti di safety successivamente osservati dalla messa in commercio.

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Phase

Show Query Share Query Edit Query

Export Analysis Print Selected 0 drugs A- A+ A- A+

Development Location

□ Showing 1 of 1 drugs Explore Graphical View

View by: List View ▾ Sort by: Update date ▾

Biomarker Name

□ Atu 027

28 Feb 2020

Protein kinase N3 inhibitors; RNA interference

Target

Originator: Atugen AG

Mechanism Of Action

Inactive Indications on highest development phases

Drug Class

Discontinued: Head and neck cancer; Pancreatic cancer; Solid tumours



## At a glance

<b>Originator</b>	Atugen AG
<b>Developer</b>	Silence Therapeutics; Silence Therapeutics AG
<b>Class</b>	Antineoplastics; Small interfering RNA
<b>Mechanism of Action</b>	Protein kinase N3 inhibitors; RNA interference
<b>Orphan Drug Status</b>	No
<b>New Molecular Entity</b>	Yes
<b>Available For Licensing</b>	Yes

## Highest Development Phases

<b>Discontinued</b>	Head and neck cancer; Pancreatic cancer; Solid tumours
---------------------	--

## Most Recent Events

<b>28 Feb 2020</b>	No recent reports of development identified for preclinical development in Head-and-neck-cancer in United Kingdom (IV, Infusion)
<b>04 Nov 2017</b>	Discontinued - Phase-I for Solid tumours (Late-stage disease) in Germany (IV)
<b>04 Nov 2017</b>	No recent reports of development identified for phase-I development in Solid-tumours(Late-stage disease) in Germany (IV, Infusion)

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## Scientific Summary

### Pharmacokinetics

Results from 33 patients in a phase I trial of seven escalating doses of Atu 027, showed that there was a dose-dependent increase in plasma siRNA and lipid levels, suggesting that there was no accumulation of Atu 027 during repeat treatment <sup>[12]</sup> <sup>[13]</sup> <sup>[28]</sup>.

### Adverse Events

Results from 33 patients in a phase I trial of seven escalating doses of Atu 027, demonstrated that Atu 027 was generally well tolerated in patients with solid tumours. No dose-limiting toxicities or evidence of cytokine activation was observed <sup>[12]</sup> <sup>[13]</sup> <sup>[28]</sup>. The prospective recommended maximum tolerated dose of Atu 027 was established as 0.336 mg/kg <sup>[9]</sup>.

In its presentation in June 2015, Silence Therapeutics announced interim data from a phase IIa trial in pancreatic cancer. The safety data showed that adverse events were associated with administration of gemcitabine, but not with Atu 027. Atu 027 was well tolerated.

### Pharmacodynamics

#### Summary

In a dose-escalating phase I study, Atu 027 0.18 mg siRNA/kg achieved the same blood plasma siRNA concentration that had been sufficient to silence the expression of PKN-3 in preclinical studies. Of the 11 doses trialled, dose levels of 6 and higher caused a reduction of soluble VEGF-R1 (sFLT-1) levels in 7 of 9 patients <sup>[9]</sup>.

Atu 027 reduced the growth and metastasis of human pancreatic cancer and improved the antineoplastic efficacy of gemcitabine in an orthotopic pancreatic cancer model. The combination therapy substantially diminished the occurrence of either lymph node or liver metastases <sup>[29]</sup>.

### Therapeutic Trials



Search

by Mechanism

PKN3-inhibitors



Advanced search

Structure search

Last 5 Searches

Refine Your Search



Indication see all

- Cancer 3
- Solid tumours 2
- Acute lung injury 1
- Diabetes mellitus 1
- Head and neck cancer 1

Phase

- Discontinued 3
- No development reported 1

Development Location

- Europe 3
- Germany 2
- United Kingdom 2
- England 1

Feedback

3 Drugs

3 Trials

0 Safety Reports

97 Deals

0 Patents

Show Query Share Query Edit Query

Export Analysis Print Selected 0 drugs A- A A+

Showing 3 of 3 drugs Explore Graphical View

View by: List View Sort by: Update date

Research programme: siRNA therapeutics - Silence Therapeutics

Endothelin A receptor antagonists; Protein kinase N3 inhibitors; RNA interference; Vascular endothelial growth factor receptor-1 antagonists

05 Apr 2022

Originator: Atugen AG

Inactive Indications on highest development phases

No development reported: Acute lung injury; Preeclampsia; Pulmonary arterial hypertension

Discontinued: Diabetes mellitus; Solid tumours; Wounds

Atu 027

Protein kinase N3 inhibitors; RNA interference

28 Feb 2020

Originator: Atugen AG

Inactive Indications on highest development phases

Discontinued: Head and neck cancer; Pancreatic cancer; Solid tumours



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Search

by Drug Class

SIRNA



Advanced search

Structure search

Last 5 Searches

Refine Your Search

563 Drugs

523 Trials

42 Safety Reports

57 Deals

5 Patents

Indication see all

- Cancer 147
- Liver disorders 112
- Neurological disorders 105
- Inflammation 96
- Metabolic disorders 91

Phase see all

- Marketed 5
- Registered 7
- Preregistration 3
- Phase III 15
- Phase II/III 1

Development Location see all

- USA 318
- Asia 169

Show Query Share Query Edit Query

Export Analysis Print Selected 0 drugs A- A+ A+

Showing 10 of 563 drugs Explore Graphical View

View by: List View Sort by: Update date

INV 441

Cell replacements; Immunostimulants

16 Oct 2024

Active Indications (Highest Phase)

Preclinical: Glioblastoma

Originator: inviOs

No Inactive Indications

LY 3962681

Alpha-synuclein expression modulators; RNA interference

16 Oct 2024

Active Indications (Highest Phase)

Phase I: Parkinson's disease

Originator: Prevail Therapeutics

No Inactive Indications

Feedback



## Micromedex

È un insieme di database in lingua inglese contenenti informazioni evidence-based su farmaci e le loro interazioni, tossicologia, analisi di laboratorio e medicina alternativa.

Disponibile solo dalla sottorete della biblioteca e del dipartimento di scienze del farmaco.

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Risposte rapide

Risposte approfondite

Tutti i risultati

## Dosing/Administration

Adult Dosing

Pediatric Dosing

FDA Uses

Non-FDA Uses

Dose Adjustments

Administration

Comparative Efficacy

Place In Therapy

## Medication Safety

Contraindications

Precautions

Adverse Effects

Black Box Warning

REMS

Drug Interactions (single)

IV Compatibility (single)

Pregnancy & Lactation

Monitoring

## Dosing/Administration

### Adult Dosing



Vedere 'Risposte approfondite' per i risultati dettagliati.

Stampa

#### Important Note

- The Emergency Use Authorization for hydroxychloroquine sulfate in hospitalized adult and adolescent patients weighing 50 kg or more for suspected or confirmed COVID-19 was revoked on June 15, 2020. The FDA concluded hydroxychloroquine sulfate is unlikely to be effective in the treatment of COVID-19 and the risks of therapy (ie, serious cardiac adverse events and methemoglobinemia) do not justify continued use [2].

#### General Dosage Information

- Each 200-mg tablet of hydroxychloroquine sulfate is equivalent to 155 mg base [3]

#### Lupus erythematosus

- 200 to 400 mg orally once daily or divided twice daily [3]

#### Malaria

- Initial, 800 mg orally for 1 dose followed by 400 mg at 6, 24, and 48 hours after the initial dose (FDA dosage) [3]
- (Weighing greater than 31 kg) Weight-based dosage: 13 mg/kg (MAX, 800 mg) orally for 1 dose, followed by 6.5 mg/kg (MAX, 400 mg) orally at 6, 24, and 48 hours after the first dose (FDA dosage) [3]
- Concomitant medication (*Plasmodium vivax* or *P. ovale* malaria), give in combination with primaquine phosphate 52.6 mg orally daily for 14 days (guideline dosage) [4]

#### Malaria; Prophylaxis

- 400 mg orally once weekly on the same day each week beginning 2 weeks prior to travel to malarious area, continue on same day each week while in area and for 4 weeks after leaving area (FDA dosage) [3]



## Mechanism of Action

### Mechanism of Action

Vedere 'Risposte rapide' per i risultati riassuntivi.

Visualizza documento completo

Stampa

#### A) Hydroxychloroquine Sulfate

##### 1) Mechanism of Action

a) Hydroxychloroquine is a 4-aminoquinoline antimalarial and antirheumatic agent. The precise mechanism by which hydroxychloroquine exhibits activity against Plasmodium is not known. Hydroxychloroquine is a weak base and may exert its effect by concentrating in the acid vesicles of the parasite and inhibiting polymerization of heme. It can also inhibit certain enzymes by its interaction with DNA. The mechanisms underlying the anti-inflammatory and immunomodulatory effects of hydroxychloroquine in the treatment of rheumatoid arthritis, chronic discoid lupus erythematosus and systemic lupus erythematosus are not fully known [1]. In rheumatoid arthritis, it is thought to act as a mild immunosuppressant, inhibiting the production of rheumatoid factor and acute phase reactants. It also accumulates in white blood cells, stabilizing lysosomal membranes and inhibiting the activity of many enzymes, including collagenase and the proteases that cause cartilage breakdown [153].

##### 2) Spectrum of Activity

a) Hydroxychloroquine is active against the erythrocytic forms of chloroquine sensitive strains of Plasmodium falciparum, Plasmodium malariae, Plasmodium ovale, and Plasmodium vivax. Hydroxychloroquine is not active against the gametocytes and exoerythrocytic forms including the hypnozoite stage (P vivax and P ovale) of the Plasmodium parasites [17].

##### 3) Resistance Patterns

a) Plasmodium falciparum strains exhibiting reduced susceptibility to chloroquine also show reduced susceptibility to hydroxychloroquine. Resistance of Plasmodium parasites to chloroquine is widespread. Patients in whom chloroquine or hydroxychloroquine have failed to prevent or cure clinical malaria or parasitemia, or patients who acquired malaria in a geographic area where chloroquine resistance is known to occur should be treated with another form of antimalarial therapy [17].



## Pharmacokinetics

### Pharmacokinetics

Vedere 'Risposte rapide' per i risultati riassuntivi.

Visualizza documento completo  
 Stampa

#### Drug Concentration Levels

#### ADME

#### Drug Concentration Levels

##### A) Hydroxychloroquine Sulfate

###### 1) Therapeutic Drug Concentration

###### a) Systemic lupus erythematosus: 910 nanograms (ng)/mL [148]

1) In a multicenter, prospective study of patients with chronic or subacute systemic lupus erythematosus (n=300), complete remission occurred with significantly higher median hydroxychloroquine levels (910 ng/mL (range, less than 50 to 3057 ng/mL)) compared with partial remission (692 ng/mL (range less than 50 to 2843 ng/mL)) and treatment failure (569 ng/mL (range, less than 50 to 2242 ng/mL)) [148].

###### 2) Peak Concentration

###### a) Oral, single-dose, 400 mg: 1.22 nanomoles (nmol)/mL [146]

1) Mean plasma Cmax was 1.22 +/- 0.4 nmol/mL following a single 400-mg dose of hydroxychloroquine sulfate (equivalent to 310 mg hydroxychloroquine base) in 6 healthy patients [146].

###### b) Oral, single-dose, 200 mg: 129.6 to 244 nanograms (ng)/mL (blood); 46 to 50.3 ng/mL (plasma) [17]

1) Following a single oral dose of hydroxychloroquine sulfate 200 mg (equivalent to 155 mg hydroxychloroquine base) in healthy male volunteers, the mean whole blood Cmax was 129.6 ng/mL and the mean plasma Cmax was 50.3 ng/mL [17].

2) Mean plasma Cmax was 46 ng/mL (range, 34 to 79 ng/mL) following a single 200-mg dose of oral hydroxychloroquine sulfate (equivalent to 155 mg hydroxychloroquine base) in 5 healthy patients; while mean whole blood Cmax was 244 ng/mL (range, 188 to 427 ng/mL) [147].

###### 3) Time to Peak Concentration

###### a) Oral: 2.4 to 3.74 hours [17][146][147]; 3 to 4 hours (chronic use) [17]



## Toxicology

### Clinical Effects

Stampa

#### ACETAMINOPHEN-ACUTE

- **USES:** Acetaminophen is a mild analgesic and antipyretic. It is available as a non-prescription single ingredient product, in many non-prescription combination products, and in prescription combination products (usually with an opioid). **PHARMACOLOGY:** The exact mechanism of action is not known. Acetaminophen inhibits cyclooxygenase and this likely is responsible for at least some clinical effects. **TOXICOLOGY:** In overdose, the usual metabolic pathways are overwhelmed, and acetaminophen is metabolized by CYP2E1 to a reactive metabolite. This metabolite can be detoxified by conjugation with glutathione, but when hepatic glutathione stores are depleted, the metabolite binds to macromolecules in the hepatocyte causing cell death and hepatic necrosis. **EPIDEMIOLOGY:** Acetaminophen overdose is very common, and there are several hundred deaths from acetaminophen poisoning annually in the United States. **MILD TO MODERATE TOXICITY:** For the first day after ingestion, patients may be asymptomatic, or only develop nausea, vomiting and abdominal pain. Elevation of serum transaminase (ALT, AST) may begin to develop as soon as 12 hours after ingestion and can range from mild to marked (greater than 10,000 International Units/L) with few other signs or symptoms. Aminotransferase elevations generally peak 2 to 3 days after ingestion. **SEVERE TOXICITY:** Liver failure, including coagulopathy and hepatic encephalopathy, will occur. Patients may also have renal injury. Massive overdose (initial serum concentration greater than 500 mcg/mL) can produce coma, hyperglycemia, methemoglobinemia, and lactic acidosis. In patients who survive the overdose, both hepatic and renal function usually return to normal. **ADVERSE EFFECTS:** Generally rare. Some patients may have gastrointestinal upset.

#### ACETAMINOPHEN-REPEATED SUPRATHERAPEUTIC

- **USES:** Acetaminophen is a non-opioid analgesic and antipyretic medication found in many over-the-counter and prescription products. Repeated supratherapeutic acetaminophen ingestion is defined as repetitive ingestion of more than the recommended maximum daily dose. These ingestions are usually unintentional occurring in patients with acute or chronic pain syndromes or repeated dosing in ill children. **PHARMACOLOGY:** Acetaminophen is used primarily as an antipyretic and analgesic. Its effects are mediated through the central nervous system. **TOXICOLOGY:** In therapeutic doses, about 90% of acetaminophen is conjugated in the liver to nontoxic metabolites (glucuronides and sulfates). A small portion (less than 5%) is conjugated by cytochrome P450 CYP2E1 to a toxic metabolite, N-acetyl-p-benzo-quinone imine (NAPQI). This metabolite is further conjugated by glutathione, and eliminated by the kidneys. In toxic doses, the usual metabolic pathways are overwhelmed; acetaminophen is shunted to the cytochrome P450 pathway, and glutathione stores are depleted. Cellular injury and hepatic necrosis occur as NAPQI accumulates. **EPIDEMIOLOGY:** Acetaminophen poisoning is very common and can be severe. However, the incidence of serious acetaminophen toxicity after repeated doses is negligible and appears to only follow massive dosing or prolonged excessive dosing. **MILD TO MODERATE TOXICITY:** Toxicity can range from asymptomatic ALT elevation to malaise, nausea, vomiting, abdominal pain, and hepatotoxicity. **SEVERE TOXICITY:** Jaundice, hypoglycemia, coagulopathy, renal failure,



## Medication Safety

### Drug Interactions (single)

Stampa

Vedere 'Risposte approfondite' per i risultati dettagliati.

[Visualizza interazioni multiple del](#)

Migliora in base a: Gravità: [All](#) ▾

Documentazione: [All](#) ▾

Passa a: [Drug-Drug \(2\)](#) | [ALLERGIA \(0\)](#) | [CIBO \(0\)](#) | [ETANOLO \(0\)](#) | [LAB \(0\)](#) | [TABACCO \(0\)](#) | [GRAVIDANZA \(1\)](#) | [ALLATTAMENTO \(1\)](#)

#### Drug-Drug Interazioni (2)

Farmaci:	Gravità:	Documentazione:	Riepilogo:
CHLOROQUINE [Systemic] -- REMDESIVIR [Systemic]	Major	Fair	Concurrent use of CHLOROQUINE and REMDESIVIR may result in risk of reduced antiviral activity of remdesivir.
HYDROXYCHLOROQUINE [Systemic] -- REMDESIVIR [Systemic]	Major	Fair	Concurrent use of HYDROXYCHLOROQUINE and REMDESIVIR may result in risk of reduced antiviral activity of remdesivir.

#### Drug-ALLERGIA Interazioni (Nessuna trovata)

#### Drug-CIBO Interazioni (Nessuna trovata)



## Drug-TABACCO Interazioni (Nessuna trovata)

### Drug-GRAVIDANZA Interazioni (1)

Farmaci:	Gravità:	Documentazione:	Riepilogo:
PREGNANCY -- REMDESIVIR [Systemic]	Moderate	Unknown	Available evidence is inconclusive or inadequate for determining fetal risk when used in pregnant women.

### Drug-ALLATTAMENTO Interazioni (1)

Farmaci:	Gravità:	Documentazione:	Riepilogo:
LACTATION -- REMDESIVIR [Systemic]	Major	Unknown	Infant risk cannot be ruled out: Available evidence and/or expert consensus is inconclusive or is inadequate for determining infant risk when Remdesivir is used during breast-feeding. Weigh the potential benefits of treatment against potential risks before prescribing Remdesivir during breast-feeding.

## Definizioni

Gravità:	Controindicato	Di grande entità	Moderata	Di lieve entità	Sconosciuta
Documentazione:	Eccellente	Buona	Discreta	Sconosciuta	



## Inflammatory bowel disease; Crohn's disease

Risposte rapide

Risposte approfondite

Tutti i risultati

### Background

Definition

Epidemiology

Etiology/ Pathophysiology

Genetics

### History And Physical

Summary

Medical History

Findings

### Diagnostic Testing

Diagnostic Testing  
Summary

Tests

### Diagnosis

Differential Diagnosis

### Ongoing Assessment

### Background

#### Epidemiology

#### Incidence and Prevalence

The incidence of Crohn disease in the United States is about 5 per 100,000 persons and the prevalence is about 50 per 100,000 persons [2].

#### Age

Crohn disease can affect any age group [2], but has a peak onset in persons between the ages of 15 to 30 years [3].

#### Race and Ethnicity

In North America, the highest prevalence rates of Crohn disease are found in whites (about 44 per 100,000) and African-Americans (about 30 per 100,000) with the lowest rates found in Asians (about 6 per 100,000) and Hispanics (about 4 per 100,000) [4].

Crohn disease is more common in persons with Ashkenazi Jewish ancestry. The children of North American Ashkenazi Jews with Crohn disease appear to have an earlier onset of the disease [4].

#### Geography

The incidence of Crohn disease varies according to geographic location with higher rates occurring in more developed countries such as the United Kingdom, northern Europe, and North America, and lower rates occurring in developing countries. Southeast Asia, Africa, South America, and Australia have the lowest incidence rates [4]; however, the incidence is rising in less-developed countries with the expansion of industrialization [5].

Visualizza documento completo

Stampa



Pagina iniziale	Interazioni dei farmaci	Compatibilità EV	Identificazione farmaci	Confronto farmaci	NeoFax® / Pediatrics	Ricerca farmaci e dati tossicologici	Calcolatori
-----------------	-------------------------	------------------	-------------------------	-------------------	----------------------	--------------------------------------	-------------

Drug Monographs

Enteral Formulas

**Dosing Calculators**

## Dosing Calculators - Patient Information

Birthdate: (MM/DD/YYYY)

 MM/DD/YYYY 

Population Type:

Age

Today

Current Weight:

 kg

**Proceed to Calculator**



Pagina iniziale	Interazioni dei farmaci	Compatibilità EV	Identificazione farmaci	Confronto farmaci	NeoFax® / Pediatrics	Ricerca farmaci e dati tossicologici	Calcolatori
-----------------	-------------------------	------------------	-------------------------	-------------------	----------------------	--------------------------------------	-------------

## Calculators

All Calculators

Alphabetical Order

### By Category

Frequent Use Calculators

Unit and Dose Converters

Medical Equations

Clinical Criteria

Decision Trees

### By Specialty

All Specialties

Pharmacology

Nursing

Medical Statistics

### By Category

Frequent Use Calculators

#### Antidote Dosing And Nomograms

- Blood Ethanol Concentration Estimation
- Acetaminophen (Paracetamol) Toxicity Assessment
- NAC Dosing for Acetaminophen Overdose
- Ethanol - Initial IV Dosing for Methanol/Ethylene Glycol Overdose
- Ethanol - IV Dosing Adjustment for Methanol/Ethylene Glycol Overdose

#### Dosing Tools

- ACLS: Adult Emergency Drug Dosing Calculator
- PALS: Pediatric Emergency Drug Dosing Calculator
- Heparin Dosing Calculator
- IV Drip Maintenance Rate Calculator
- Maintenance Fluid Calculation for Children Based on Hourly Fluid Requirements
- Maintenance fluid calculation for children based on daily fluid requirements



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## DrugBank

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#### Identification

#### Pharmacology

#### Interactions

#### Products

#### Categories

#### Chemical Identifiers

#### References

#### Clinical Trials

#### Pharmacoeconomics

#### Properties

#### Targets (1)

#### Enzymes (1)

#### Summary

Certolizumab pegol is a tumor necrosis factor (TNF) blocker used to treat a variety of autoimmune and autoinflammatory conditions like Crohn's disease, rheumatoid arthritis, active psoriatic arthritis, ankylosing spondylitis, axial spondyloarthritis, and plaque psoriasis.

#### Brand Names

Cimzia

#### Generic Name

Certolizumab pegol

#### DrugBank Accession

DB08904

#### Number

#### Background

Certolizumab pegol is a pegylated monoclonal antibody against the tumor necrosis factor-alpha (TNF-alpha).<sup>1</sup> It is formed with a humanized Fab fragment of 50 kDa, from an IgG 1 isotype, fused to a 40 kDa polyethylene glycol moiety replacing the Fc antibody region. The absence of the Fc region was ideated to prevent complement fixation and antibody-mediated cytotoxicity as well as to markedly increase its half-life.<sup>3</sup>



TARGETS

Product Highlight: DrugBank Data Dictionary [Read Now!](#)

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## 1. Tumor necrosis factor

[Details](#)

Kind	Protein	General Function	Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia. Under certain conditions it can stimulate cell proliferation and induce cell differentiation. Impairs regulatory T-cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation. Up-regulates the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective
Organism	Humans		
Pharmacological action	Yes		
Actions	Neutralizer		



## Materiali ulteriori disponibili in biblioteca: repertori

### **MEDICAMENTA**

È una fonte di informazione esauriente e in lingua italiana sui principi attivi e su ogni molecola impiegata in terapia: denominazione, caratteristiche chimico-fisiche, saggi di identificazione e purezza, tossicità, controindicazioni...

Formato cartaceo (versione online con pw accesso dalla biblioteca e dai laboratori)

**MEDICAMENTA**

<http://www.medicamenta.com/it>



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Società Cooperativa Farmaceutica

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Categorie terapeutiche  
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ATC  
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**FELBAMATO**

2-Fenil-1,3-propandiolo dicarbammato

C<sub>11</sub>H<sub>14</sub>N<sub>2</sub>O<sub>4</sub>

pm 238,24

CAS 25451-15-4

**Sinonimi :** 2-feniltrimetilene estere dell'acido carbammico; AD-03055

**DCI** felbamate

**INN** felbamate

**Brevetti :** U.S., 2 884 444, 1959; U.S., 4 978 680, 1990

**Proprietà chimico-fisiche** - Polvere bianca, inodore. Moderatamente solubile in acqua, in metanolo, in etanolo, in acetone e in cloroformio; molto solubile in dimetilsulfossido e in dimetilformamide.



**MEDICAMENTA**  
Società Cooperativa Farmaceutica

Y  
Z

Principi attivi  
Nomi commerciali  
Categorie terapeutiche  
Preparazioni  
Nomi e sinonimi  
CAS  
ATC  
HELP

p.i. = 101-102 A. L.

**Proprietà farmacologiche** - Il felbamato è un farmaco anticonvulsivante strutturalmente correlato al [meprobamato](#), ma differente dal punto di vista farmacologico. L'esatto meccanismo d'azione non è noto, anche se il farmaco sembra agire innalzando la soglia delle convulsioni e prevenendo la loro diffusione. Nell'animale da laboratorio il felbamato protegge dalle convulsioni indotte da stimolazione elettrica facendo presupporre una sua efficacia nel trattamento dell'epilessia tonico-clonica (grande male) e parziale. Sempre nell'animale, il farmaco previene le convulsioni indotte da pentilentetrazolo (e quindi può essere efficace nel trattamento delle crisi di assenza nel piccolo male), picrotossina, glutammato, mentre non riesce a prevenire le convulsioni indotte da bicucullina o stricnina.

**Farmacocinetica** - Il felbamato è ben assorbito dal tratto gastrointestinale e le concentrazioni plasmatiche massime vengono raggiunte 1-6 ore dopo la somministrazione orale. Alle dosi raccomandate la cinetica del felbamato è lineare e le concentrazioni plasmatiche terapeutiche sono comprese tra 20 e 100 mg/ml. Il legame con le proteine plasmatiche è del 22-36%, il volume di distribuzione è di 0,76-0,8 l/kg e l'eliminazione è compresa tra 14 e 23 ore. Il felbamato viene parzialmente metabolizzato nel fegato, per idrossilazione e coniugazione, dando luogo a prodotti inattivi. Viene escreto principalmente nelle urine dove si ritrova sia in forma immodificata (49%) che come metaboliti; l'escrezione nelle feci è inferiore al 4%. Nel ratto il felbamato attraversa la barriera placentare e viene escreto nel latte materno.

**Tossicità** - Nel topo il valore della DL<sub>50</sub> per i.p. è di 4000 mg/kg.

**Indicazioni terapeutiche** - Nell'adulto il felbamato viene usato, sia in monoterapia che come farmaco aggiuntivo, nel trattamento delle convulsioni parziali resistenti, con o senza generalizzazione secondaria. Nel bambino il felbamato può essere usato come farmaco aggiuntivo per controllare le convulsioni associate alla sindrome di Lennox-Gastaut. A causa della sua tossicità il felbamato non deve essere considerato un farmaco di prima scelta e dovrebbe essere usato solo nel trattamento di pazienti che non rispondono ad altri farmaci o che siano intolleranti a essi.



## Pubchem

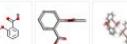
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COMPOUND SUMMARY	
<h1>Aspirin</h1>	
PubChem CID	2244
Structure	
	<a href="#">Find Similar Structures</a>
Chemical Safety	 <b>Irritant</b> <a href="#">Laboratory Chemical Safety Summary (LCSS) Datasheet</a>
Molecular Formula	$C_9H_8O_4$ or $CH_3COOC_6H_4COOH$ or $HC_9H_7O_4$
Synonyms	aspirin ACETYL SALICYLIC ACID 50-78-2 2-Acetoxybenzoic acid 2-(Acetoxy)benzoic acid <a href="#">More...</a>
Molecular Weight	180.16
Date	Modify Create 2021-10-16 2004-09-16
<p>Aspirin or acetylsalicylic acid is perhaps the most commonly used analgesic and antipyretic medication worldwide, having been in clinical use for over 100 years. Aspirin can cause several forms of liver injury; in high doses, aspirin can cause moderate to marked serum aminotransferase elevations occasionally with jaundice or signs of liver dysfunction; and in lower doses in susceptible children with a febrile illness aspirin can lead to Reye syndrome.</p> <ul style="list-style-type: none"> <li>LiverTox</li> </ul> <p>Aspirin is an orally administered non-steroidal anti-inflammatory agent. Acetylsalicylic acid binds to and acetylates serine residues in cyclooxygenases, resulting in decreased synthesis of prostaglandin, platelet aggregation, and inflammation. This agent exhibits analgesic, antipyretic, and anticoagulant properties.</p> <ul style="list-style-type: none"> <li>NCI Thesaurus (NCI)</li> </ul> <p>Also known as Aspirin, acetylsalicylic acid (ASA) is a commonly used drug for the treatment of pain and fever due to various causes. Acetylsalicylic acid has both anti-inflammatory and antipyretic effects. This drug also inhibits platelet aggregation and is used in the prevention of blood clots stroke, and myocardial infarction (MI). Interestingly, the results of various studies have demonstrated that long term use of acetylsalicylic acid may decrease the risk of various cancers, including colorectal, esophageal, breast, lung, prostate, liver and skin cancer. Aspirin is classified as a non-selective cyclooxygenase (COX) inhibitor and is available in many doses and forms, including chewable tablets, suppositories, extended release formulations, and others. Acetylsalicylic acid is a very common cause of accidental poisoning in young children. It should be kept out of reach from young children, toddlers, and infants.</p> <ul style="list-style-type: none"> <li>DrugBank</li> </ul>	

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## EUROPEAN PHARMACOPOEIA

È il codice farmaceutico che armonizza i testi delle principali farmacopee ufficiali degli Stati Europei e individua norme comuni riconosciute sulla qualità dei medicinali.

Complesso di disposizioni tecnico/scientifiche ed amministrative, per il controllo della qualità dei medicamenti, delle sostanze e/o dei preparati finali, mediante l'indicazione di metodi di verifica chimico analitici e tecnologici delle specifiche di qualità, dei metodi di preparazione o della formulazione.

In formato cartaceo ma anche online con pw (solo per docenti e laureandi..)



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banca dati	ambito disciplinare	citazionale e bibliografica	fattuale	a pagamento	gratuita
Scopus	multidisciplinare	x		x	
Web of Science	multidisciplinare	x		x	
Pubmed	biomedico	bibliografica			x
Pubchem	chimico		x		x
Codifa	farmaceutico		x	x	
Micromedex	farmaceutico		x	x	
AdisInsight	farmaceutico		x	x	
DrugBank	farmaceutico		x		x



## Cosa cerco e dove lo trovo

Tipo di ricerca	Dove cercare
Sostanza	Pubchem, Medicamenta, European Pharmacopoeia, Farmacopea italiana
Farmaco	Codifa, Medicamenta, Micromedex, AdisInsight, DrugBank
Tossicità ed effetti collaterali	Codifa, Micromedex, Pubchem, DrugBank
Farmacodinamica/cinetica	Pubmed, Micromedex, Codifa, DrugBank
Studi clinici	Pubmed, AdisInsight
Interazioni farmacologiche	Codifa, Micromedex, Pubmed
letteratura scientifica	Pubmed, Scopus e WOS



...e queste sono solo le principali, ce ne sono ancora molte altre.  
Se hai bisogno chiedi aiuto in biblioteca!

