

## CFDB - Cystic Fibrosis DataBase

Roberto Buzzetti - 3 marzo 2022

# CFDB (da oltre 10 anni!)

Una raccolta di oltre 1.300 articoli

sulla efficacia clinica degli interventi

in fibrosi cistica



## **CFDB**

Sito web -www.cfdb.eu

Gratuito, libero accesso

Finanziato dalla Fondazione FC



## CFDB Utile a...

- Professionisti della clinica e dell'assistenza
- Ricercatori
- Pazienti e i loro familiari (ostacolo: lettura in inglese; linguaggio asciutto ed essenziale)



# Le due principali funzioni

**Database: interrogazione** per parole chiave o di testo libero, per autore, per anno;

50 schede tematiche riassuntive, su temi clinici rilevanti in FC sintetizzano criticamente lo stato dell'arte delle evidenze disponibili e di ciò che ancora è da chiarire con la ricerca futura.

# Le due principali funzioni

Database: interrogazione per parole chiave o di testo libero, per autore, per anno;

50 schede tematiche riassuntive, su temi clinici rilevanti in FC sintetizzano criticamente lo stato dell'arte delle evidenze disponibili e di ciò che ancora è da chiarire con la ricerca futura.

## **CFDB**

Cochrane Review (98)

Cochrane Protocol (ongoing review) (9)

Other Review (32)

Health Technology Assessment Report (34)

Economic Study or Review (13)

published RCT (879)

published, non RCT (163)

congress abstract (35)

trial from www.clinicaltrials.gov (59)

trial from other registries (15)

All articles (1337)



## Criteri di inclusione degli studi

Studi primari pubblicati (di tipo interventistico/sperimentale o di osservazione, terminati o in corso)	Fonte: PubMed. Eventuali Studi non presenti in PubMed, segnalati da altre fonti
Studi secondari pubblicati (revisioni sistematiche, rapporti di valutazione delle tecnologie sanitarie, valutazioni economiche).	Fonte: Cochrane Library
Studi in corso, tratti dai principali	Fonte:
registri di trials (solo studi	https://www.clinicaltrials.gov
interventistici di fase II, III IV, con	http://apps.who.int/trialsearch
gruppo di controllo e	https://www.clinicaltrialsregister.eu
randomizzazione) (solo ultimi 5 anni).	
Abstract presentati a congressi	Fonte: Cochrane Library
internazionali (solo ultimi 5 anni)	



### Criteri di esclusione degli studi

Studi con pazienti diversi dalla CF (studi "misti" su varie patologie)

Editoriali e lettere

Studi senza gruppo di controllo

Studi che hanno come interesse primario aspetti di

"scienza di base", farmacoterapia / safety eziologia epidemiologia prognosi





## Criteri di esclusione degli studi

Studi con pazienti diversi dalla CF (studi "misti" su varie patologie)

Editoriali e lettere

Studi senza gruppo di controllo

Studi che hanno come interesse primario aspetti di

"scienza di base", farmacoterapia / safety eziologia epidemiologia prognosi

### efficacia clinica degli interventi

in fibrosi cistica





### Ancora su in- / esclusione degli studi

Per gli interventi farmacologici e per gli studi in corso vengono selezionati solo studi randomizzati controllati

Per gli interventi non farmacologici (diagnosi, dietetica, terapia fisica, chirurgia, int psicologici, organizzativi...) vengono inclusi anche studi osservazionali (studi di coorte, studi caso-controllo) purchè controllati



# Le due principali funzioni

Database: interrogazione per parole chiave o di testo libero, per autore, per anno;

**50 schede tematiche** riassuntive, su temi clinici rilevanti in FC



Le 50 schede tematiche («topics»): **Title** 

Updated: (MM/GG/AAAA)

Background

Issues

What is known

Unresolved questions

struttura

Keywords

#### **Categories**

Abnormal glucose metabolism -CFRD- IGT therapy-

Anti-inflammatory therapy

Antibiotics for prevention of respiratory exacerbations

Antibiotics for pulmonary exacerbations

Bronchopulmonary complications therapy

CFTR therapy

Counseling

**Diet** 

Gastrointestinal complications therapy

**Gene therapy** 

Hepathobiliary therapy

**Immunizations** 

Inhaled medication other than antibiotics



**Lung transplantation** 

Management of osteo arthritis

Non Invasive Ventilation

O2 therapy

Osteoporosis-osteopenia therapy

Other interventions

Otorinolaryngologic therapy

Pancreatic enzyme supplementation

Physical therapy

**Prevention** 

Therapy for lung infection by agent other that bacteria

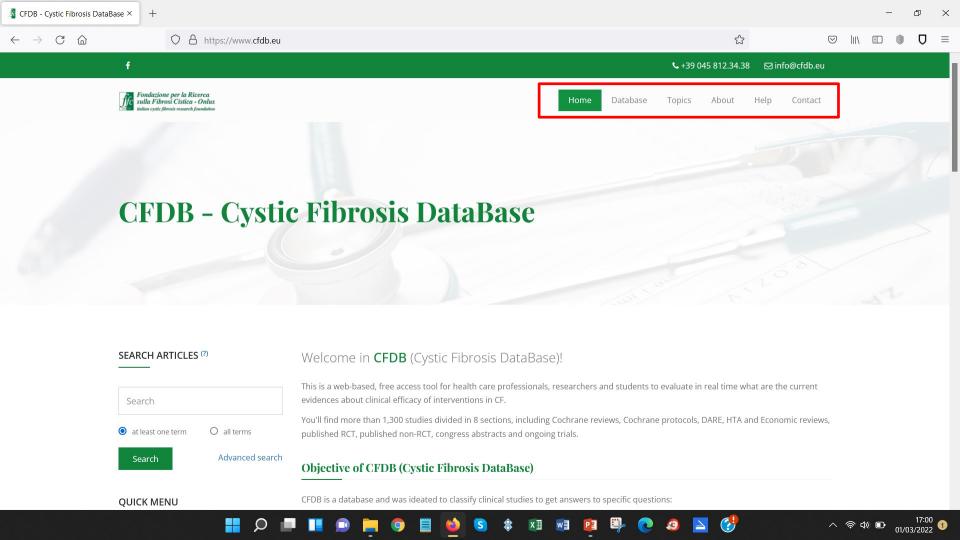
Vitamin - mineral and other supplementation

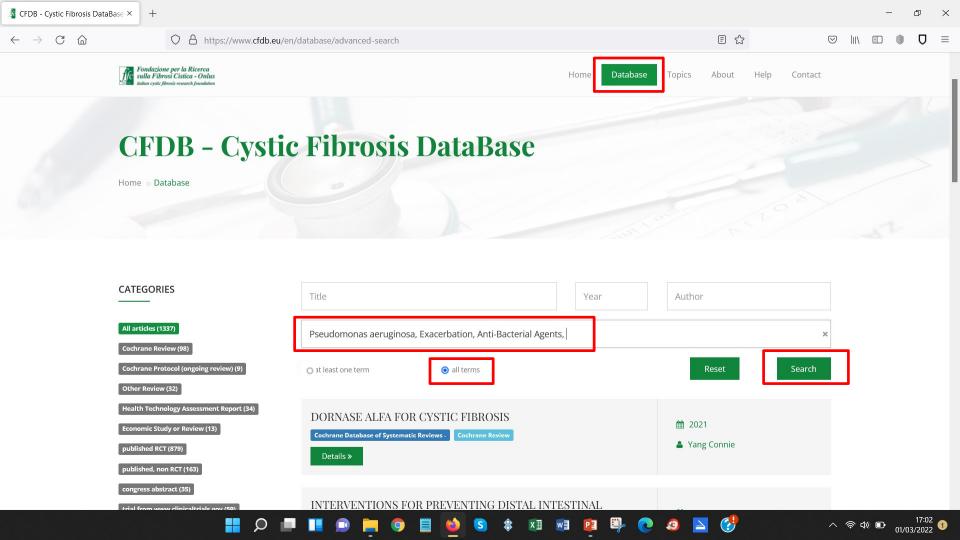


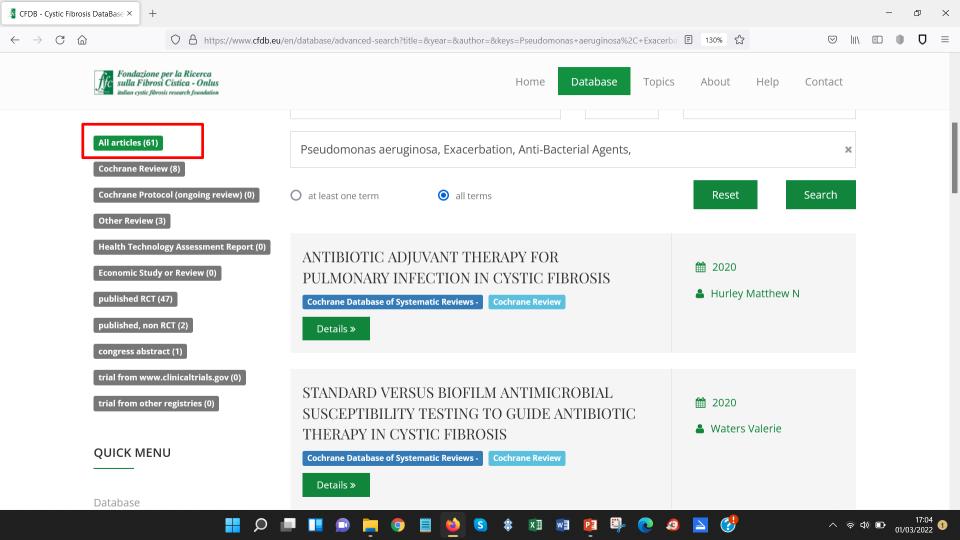
# Un esempio – www.cfdb.eu

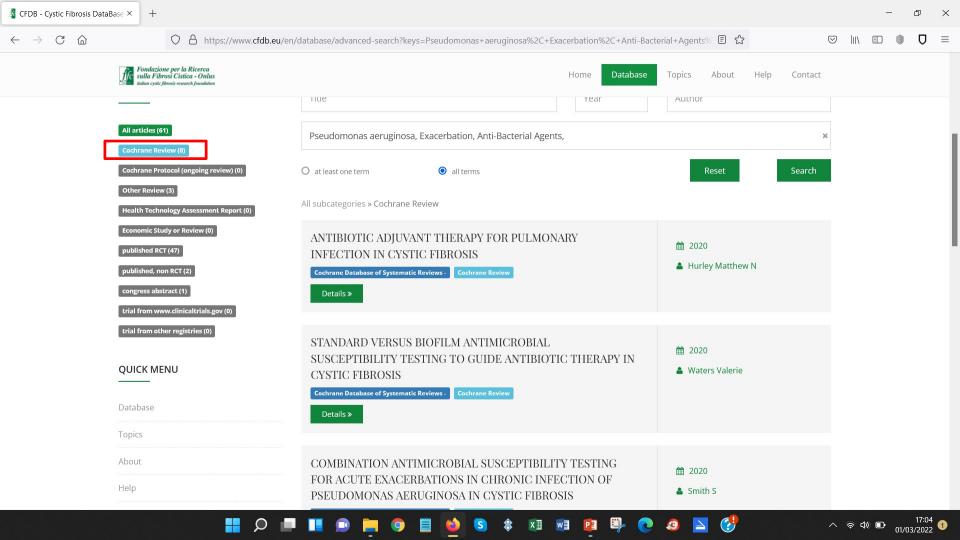
Gestire le esacerbazioni polmonari

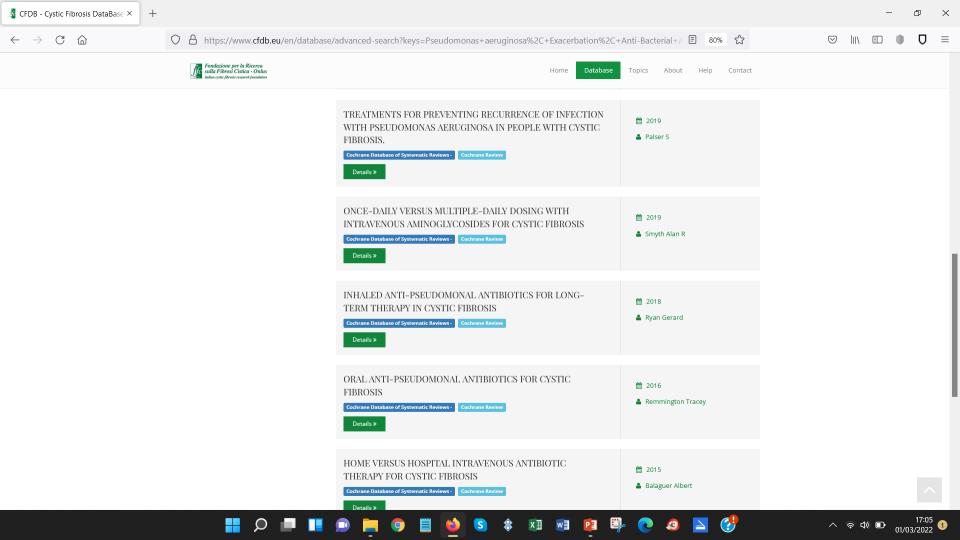


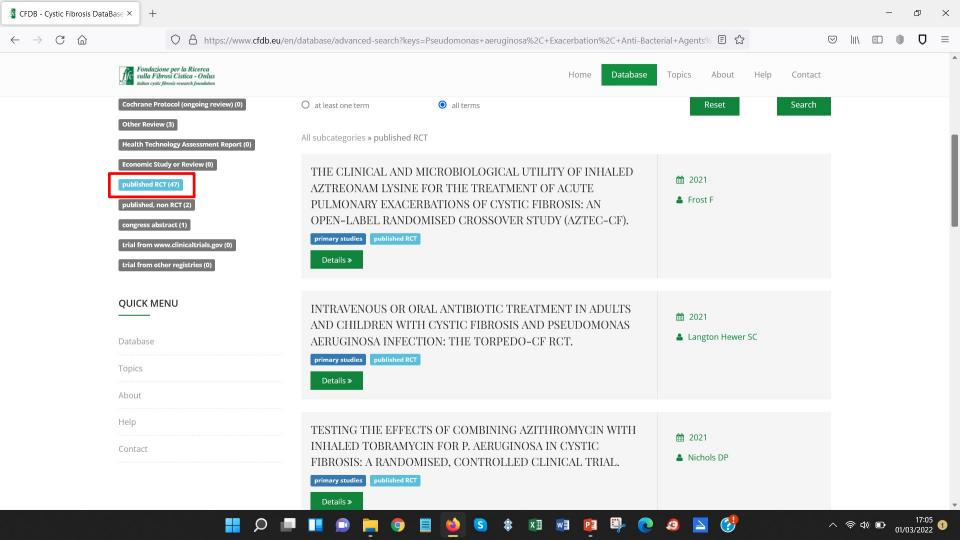


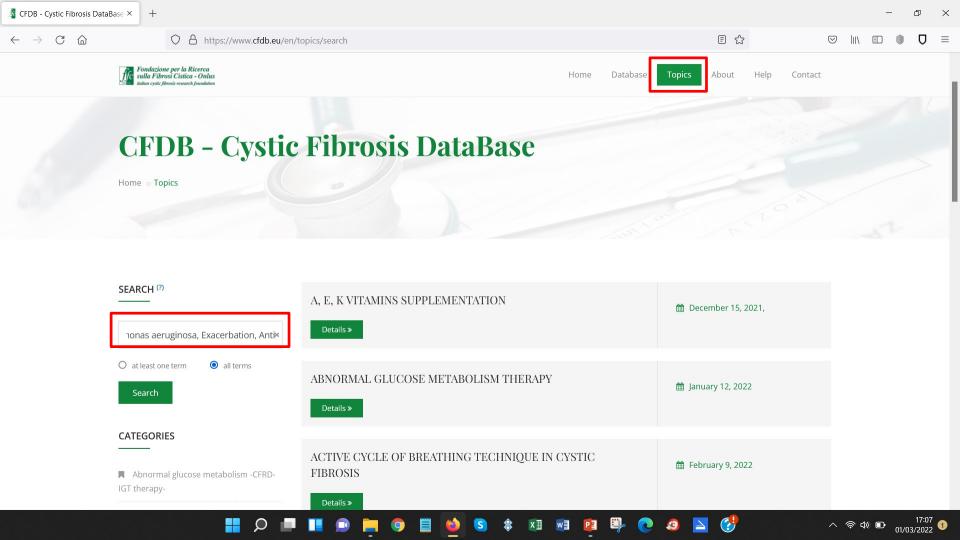


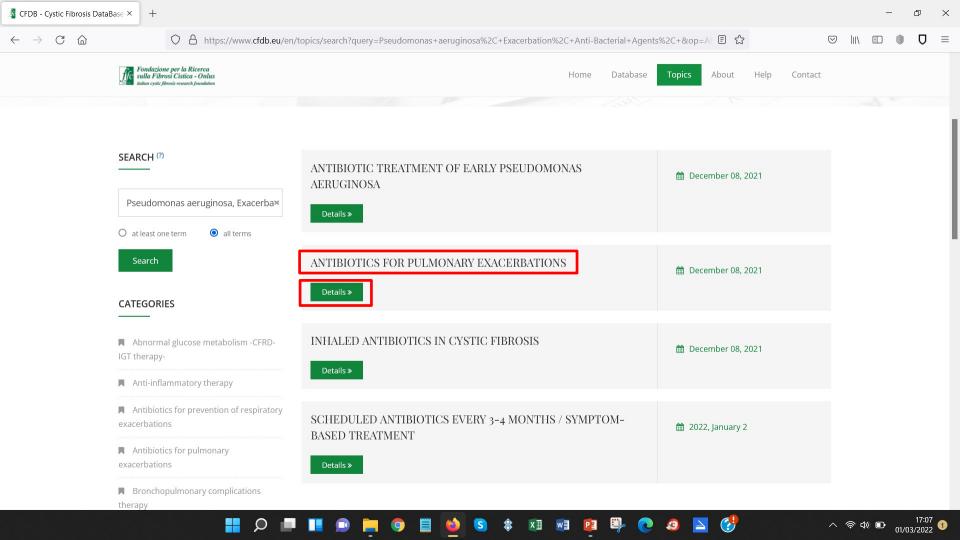


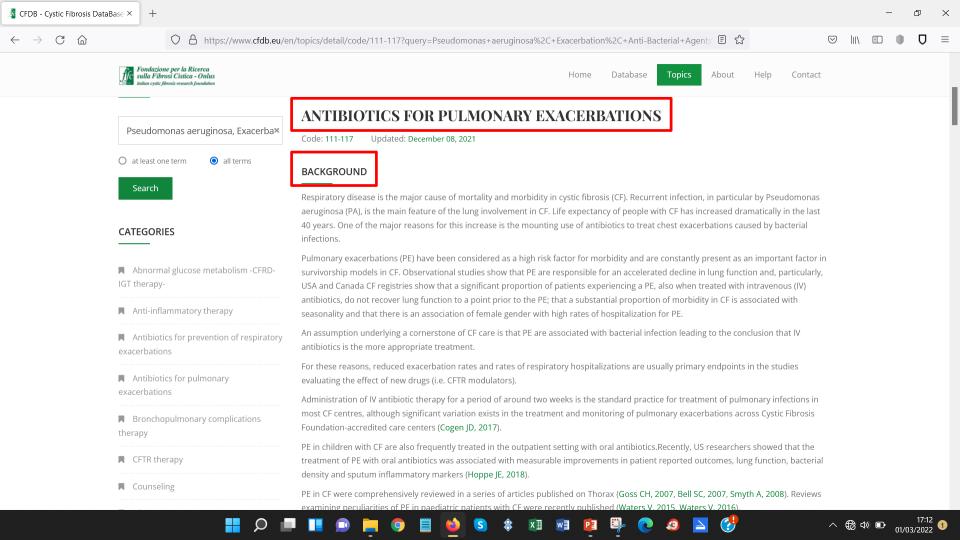


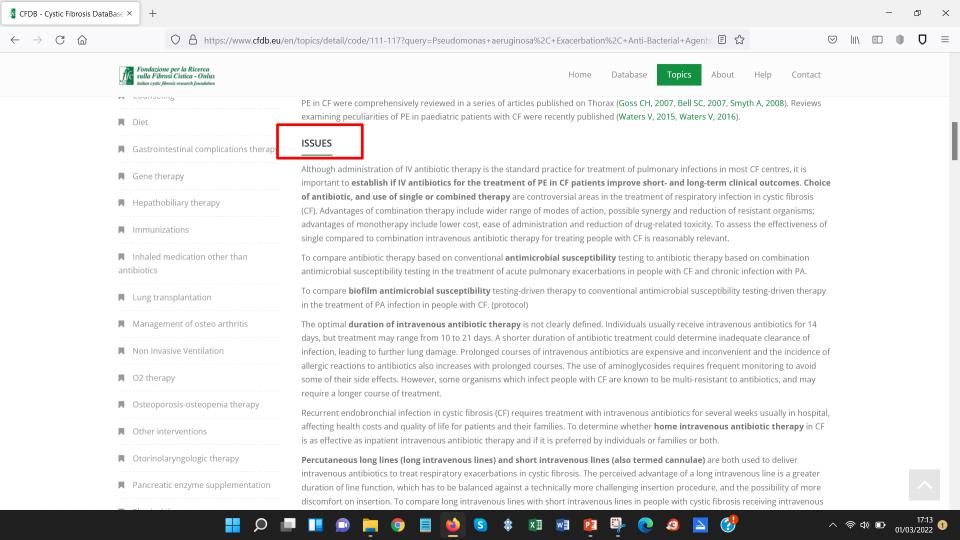


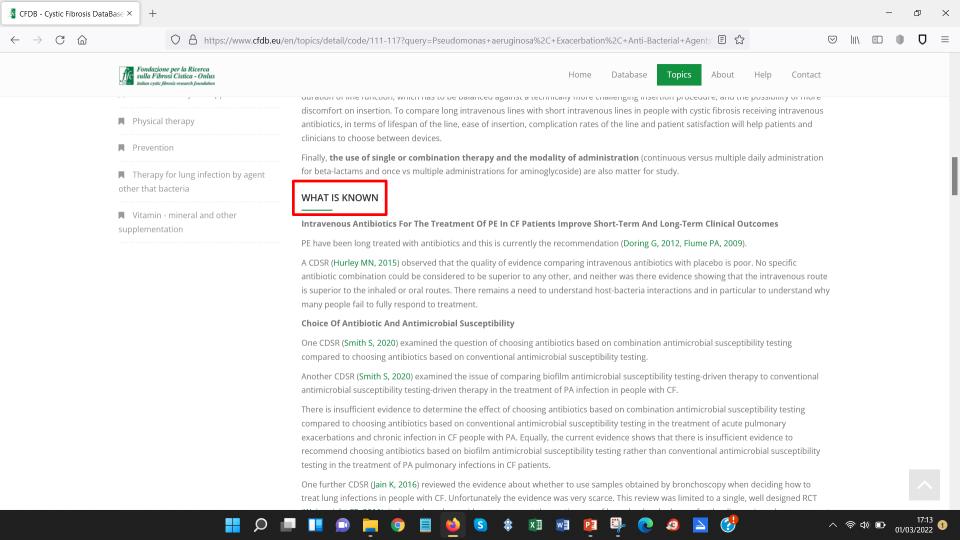


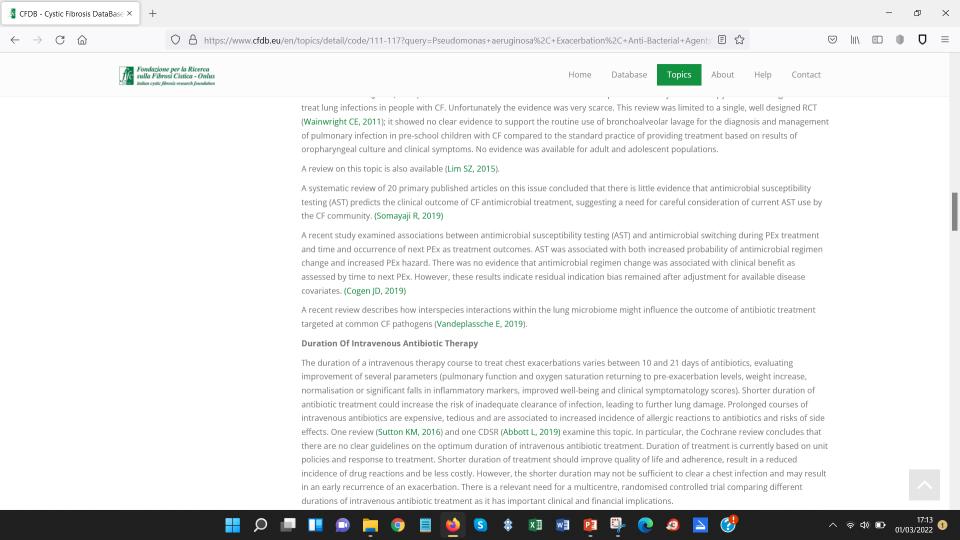


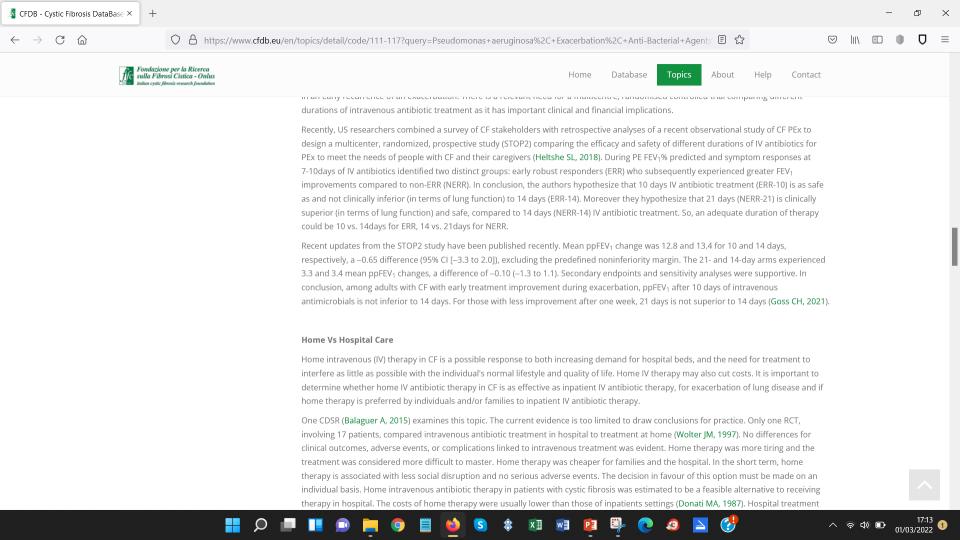


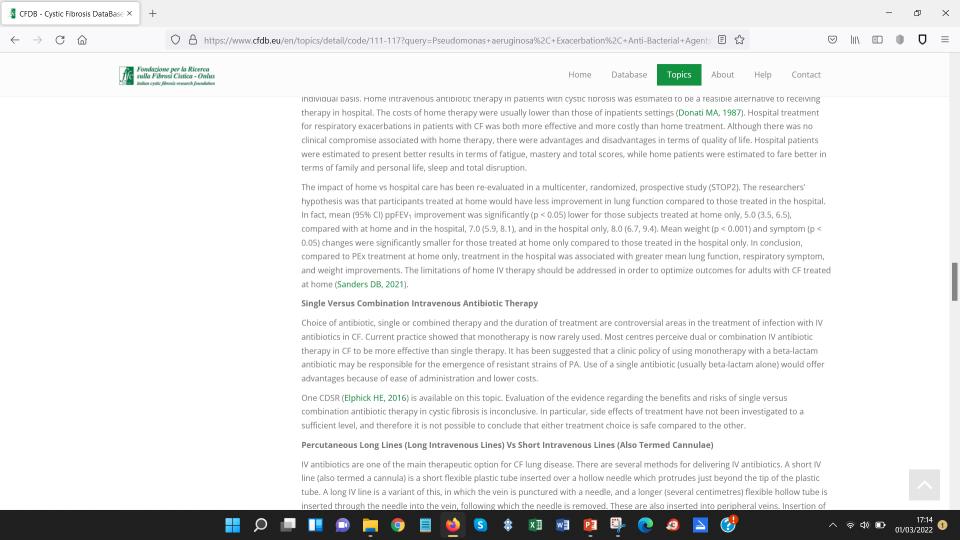


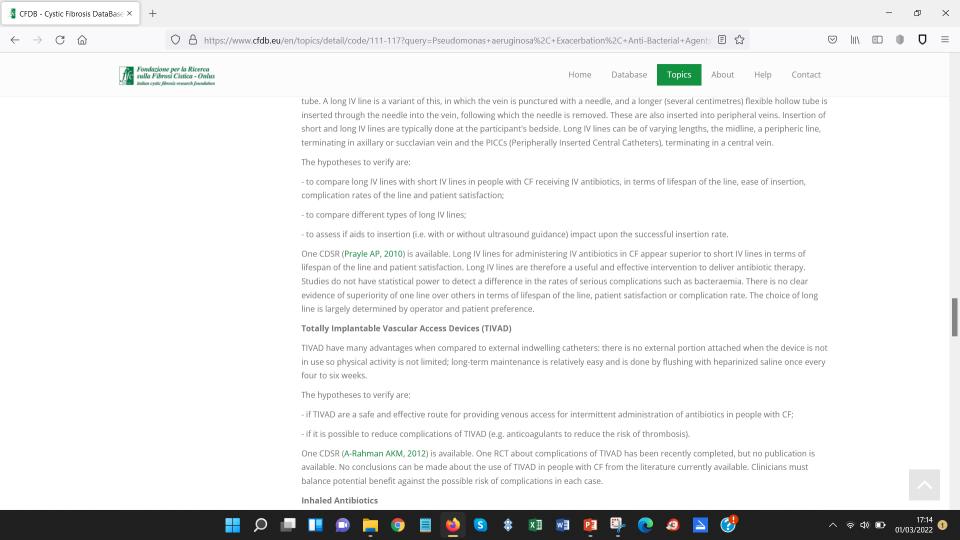


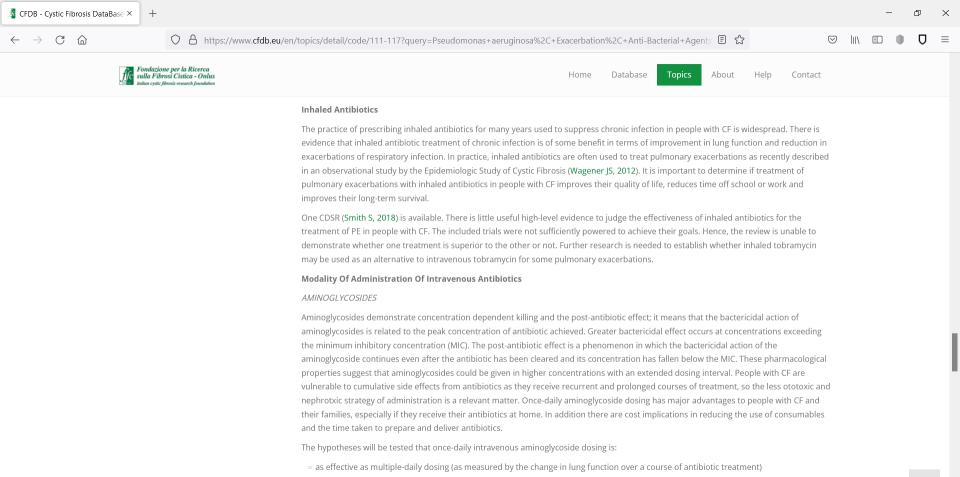












One CDSR (Bhatt I. 2019) is available on this topic. No difference in efficacy between the two treatment regimens has been demonstrated

















o no more toxic than multiple-daily dosing (as measured by renal and auditory toxicity).















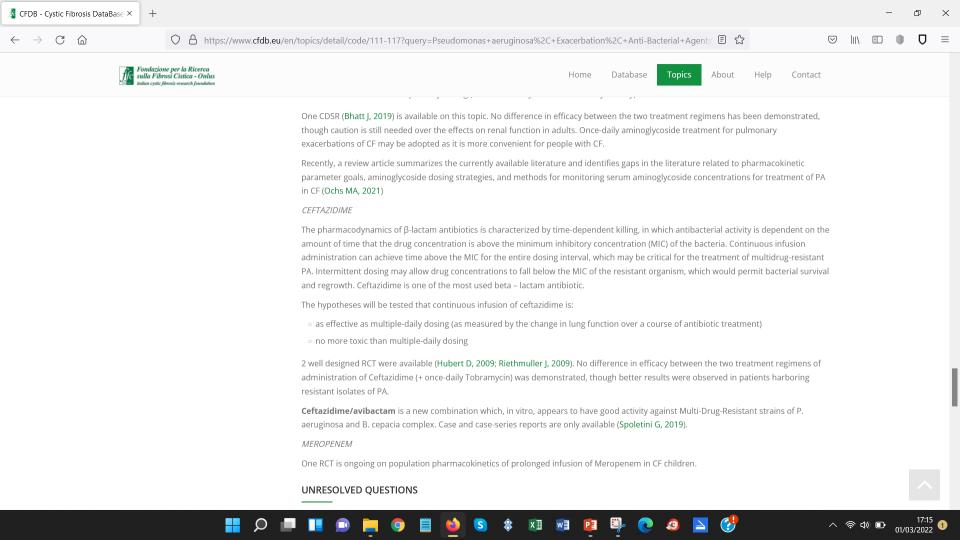


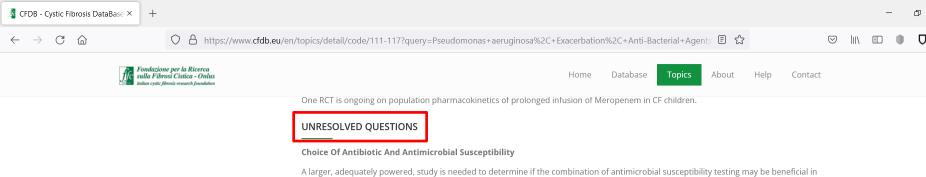












people with CF and chronic PA infection. Another point of view in this matter is that antimicrobial susceptibilities determined for bacteria growing as a biofilm (as in the bronchial tree), rather than planktonically, would lead to more reliable antibiotic choices in treating PA exacerbation. There is evidence that biofilm inhibitory concentrations (concentrations of antibiotics that inhibit biofilm growth) for PA are much higher (100 to 1000 times) than the corresponding conventionally determined minimum inhibitory concentrations (MICs) for several classes of antibiotics including ß-lactams. Hence, antibiotic susceptibilities based on biofilm-grown PA may lead to different antibiotic choices with potentially improved microbiological and clinical outcomes. A larger, adequately powered, study is needed also on this topic.

#### **Duration Of Intravenous Antibiotic Therapy**

There is the need for a well-designed, adequately-powered, multicentre randomized controlled trial to assess the optimum duration of intravenous antibiotic therapy to treat chest exacerbations, an issue which has important clinical and financial implications. This type of study could be done by randomizing participants to receive intravenous antibiotics therapy of different duration and comparing outcome measures (such as the time to next exacerbation, frequency of chest exacerbations, development of antibiotic-resistant strains, progression of FEV1 decrease, QoL score) at these various end points. The currently ongoing STOP2 trial (NCT02781610) is expected to provide some guidance on these questions when published.

#### Home Vs Hospital Care

A multicentre, properly designed RCT including a sufficient number of participants to increase statistical power and allow assessments of outcomes in the long term is needed.

Hospital in the Home (HITH) programs are currently evaluated to compare the outcomes of treatment at home vs treatment in the hospital (Hough J, 2020).

#### Single Versus Combination Intravenous Antibiotic Therapy

Further well conducted trials are needed on this topic, and particularly in terms of long-term toxicity and the development of drug-resistant organisms. An observational cohort study, co-ordinated through national databases may give useful information, if results will be































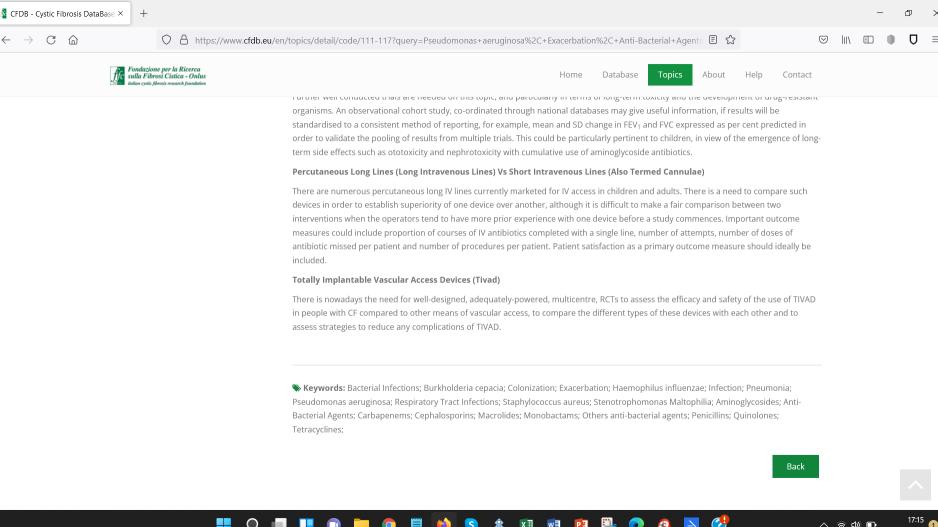














#### Responsabile del progetto

#### Roberto Buzzetti – <u>robuzze@gmail.com</u>

#### Collaboratori

Donatello Salvatore(Centro FC, Osp. S. Carlo, Potenza)Valeria Raia(Centro FC, Università Federico II, Napoli)Laura Minicucci(Centro FC, Osp. Gaslini, Genova)Natalia Cirilli(Centro FC, Ospedali Riuniti, Ancona)

**Daniele Alessio** (OnLime Web & Digital Solutions, Milano)