



TRAVEL BULLETIN


The official COLORADO Tropical Medicine
Newsletter

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FIRSTLY

THANK YOU

FOR YOUR DEDICATION
AND PATIENT CARE!



<<We have continued our dedication to travel medicine providing state of the art travel medicine counselling and prevention efforts. We also have grown our impact in Global health with education and research activities. >>

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WE BUILD

—————
EXPERIENCE

1 | WHO OUTBREAKS

2023..

Latest WHO Disease Outbreak News (DONs), providing information on confirmed acute public health events or potential events of concern.



World Health Organization



Anthrax Zambia

The first human cases were reported from the Dengeza Health Post in the Sinazongwe District of the Southern Province on 5 May 2023.



Influenza A(H1N2) UK

This is the first swine influenza A(H1N2)v case reported in the United Kingdom.



Mpox DRC

From 1 January through 12 November 2023, a total of 12 569 suspected mpox cases, including 581 suspected mpox deaths (case fatality ratio: 4.6%), have been reported in 156 health zones from 22 out of 26 (85%) provinces in the Democratic Republic of the Congo.



Diphtheria Guinea

Ministry of Health notified WHO of a diphtheria outbreak in Guinea. From 4 July to 13 October 2023, a total of 538 cases of diphtheria, were reported in the Kankan region, in the east-central part of Guinea. Of the total cases reported, 520 are suspected and 18 confirmed with 58 deaths including 13 among confirmed cases (case fatality rate (CFR) among all cases, 11%).

NEWS

2

IN THE CLINIC

Important recent approved vaccines NEW TRAVEL CLINIC VACCINES



TICOVAC

- TICK-BORNE ENCEPHALITIS (TBE) IN INDIVIDUALS 1 YEAR OF AGE AND OLDER.
- U.S. TRAVELERS VISITING PARTS OF EUROPE AND ASIA WHERE TBE IS FOUND WHO MIGHT PARTICIPATE IN OUTDOOR ACTIVITIES WITH RISK OF TICK EXPOSURE.
- VISIT AREAS WITH TBE WHEN TICKS ARE MOST ACTIVE (APRIL THROUGH NOVEMBER).
- TAKE PART IN OUTDOOR ACTIVITIES IN OR NEAR FORESTED AREAS SUCH AS HIKING, CAMPING, HUNTING, FISHING, OR BIRDWATCHING.
- ADULTS (>15 YEARS) NEED 3-DOSE SERIES WITH THE 2ND DOSE GIVEN 14 DAYS TO 3 MONTHS AFTER THE FIRST DOSE, AND THE 3RD DOSE GIVEN 5 TO 12 MONTHS AFTER THE SECOND DOSE.
- BOOSTER CAN BE GIVEN AS A SINGLE DOSE ≥ 3 YEARS FOLLOWING COMPLETION OF THE PRIMARY SERIES



CHIKUNGUNYA

- A SINGLE DOSE
- LIVE ATTENUATED
- LICENSE ADULTS > 18 YEARS OF AGE
- NO ACIP RECOMMENDATIONS
- RISK AMONG TRAVELERS IS VARIABLE: 100-200 REPORTED CASES ANNUALLY
- SURROGATE ENDPOINTS: SERORESPONSE RATE AT 28 DAYS $\geq 98\%$

RESEARCH ACTIVITIES 2023



WE ARE FULLY CHARGE

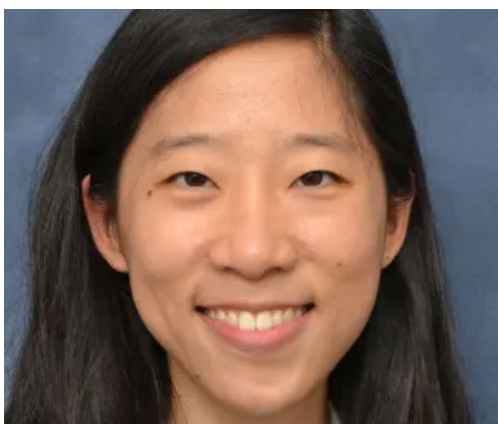


We have had a very productive year. We have continued our clinical research team efforts and collaborations



OUR TEAM

In facts and numbers



DM2 IS ASSOCIATED WITH INCREASED COGNITIVE DYSFUNCTION RISK IN NHNT PATIENTS WITH **CRYPTOCOCCOSIS**. IT IS RARE FOR DM2 TO BE THE ONLY IDENTIFIED RISK FACTOR FOR DEVELOPING CRYPTOCOCCOSIS. KIDNEY DISEASE, HYPERGLYCEMIA, AND IMMUNE DYSFUNCTION CAN INCREASE THE RISK OF CRYPTOCOCCOSIS IN PATIENTS WITH DM2.



ANNUAL RISKS FOR ARRHYTHMIAS AND STROKE FOR **CHRONIC CHAGAS CARDIOMYOPATHY** (CCC) WERE 1.6% AND 0.8%, RESPECTIVELY. THE YEARLY MORTALITY AND HOSPITALIZATION RATES FOR CCC WERE 2.7% AND 17.1%, RESPECTIVELY. ONLY 13 PATIENTS HAD A DOCUMENTED ANTITRYPANOSOMAL THERAPY COURSE WITHIN 6 MONTHS AFTER DIAGNOSIS. OF THOSE RECEIVING TREATMENT, 10 PATIENTS RECEIVED BENZNIDAZOLE AND THREE NIFURTIMOX. CHAGAS DISEASE SCREENING IN PATIENTS FROM ENDEMIC AREAS LIVING IN THE UNITED STATES REMAINS CRUCIAL.



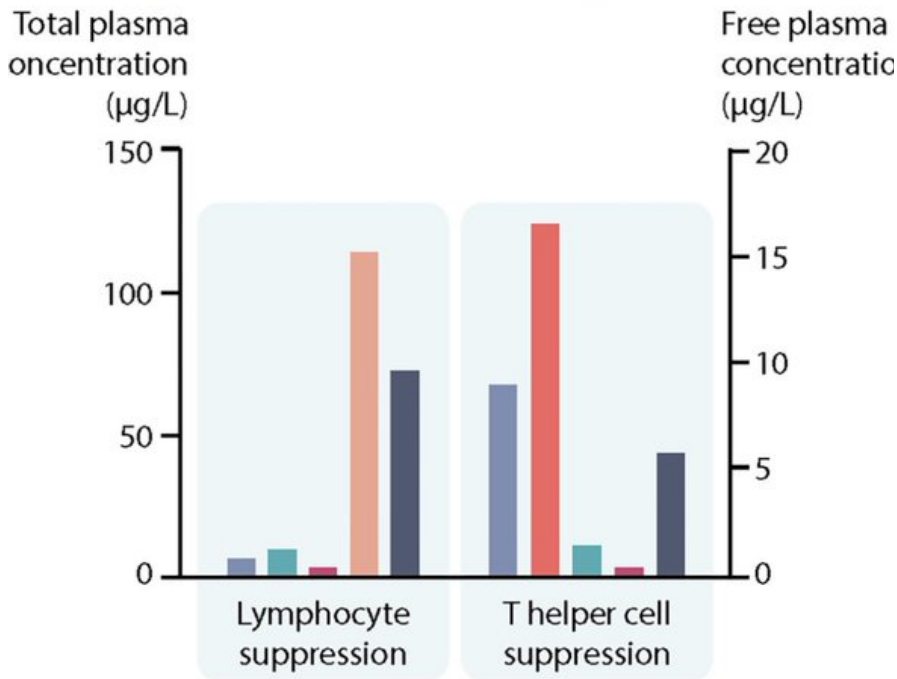
ANAKINRA USE AS A COVID-19 THERAPY SEEMS TO RELY ON A VIEW OF PATHOGENESIS THAT INCORRECTLY REFLECTS HUMAN DISEASE. SINCE COVID-19 IS AN EXAMPLE OF SEPSIS, COVID-19 BENEFIT DUE TO ANTI-INFLAMMATORY THERAPY CONTRADICTS AN EXTENSIVE HISTORY OF UNSUCCESSFUL CLINICAL STUDY. REPURPOSING RHIL-1RA TO TREAT COVID-19 APPEARS TO EXEMPLIFY A CYCLE FOLLOWED BY INFLAMMATION-SUPPRESSING SEPSIS TREATMENTS. A LANDSCAPE OF TREATMENT FAILURES IS INTERRUPTED BY A SUCCESSFUL CLINICAL TRIAL. HOWEVER, SUBSEQUENT CONFIRMATORY STUDY FAILS TO REPLICATE THE POSITIVE DATA.

OUR TEAM

In facts and numbers

THE CHALLENGE OF DETERMINING THE **GLUCOCORTICOID** DOSE AND DURATION THAT PREDISPOSE PATIENTS TO THE RISK OF DEVELOPING AN OI REMAINS ELUSIVE AS STUDIES ARE CONFOUNDED BY DISEASE SEVERITY, LIMITED DETAILS ABOUT GLUCOCORTICOID TREATMENTS, INCONSISTENT PERIODS FOR DETERMINING GLUCOCORTICOID EXPOSURE, AND THE DEFINITION AND DISTRIBUTION OF OIS. COLLABORATION AND SHARED DECISION MAKING ACROSS SPECIALTIES INVOLVING PATIENTS SHOULD BE UTILIZED TO DISCUSS INTERVENTIONS TO PREVENT ACUTE INFECTION OR REACTIVATION OF OIS. ALTERNATIVELY, LIMITING THE GLUCOCORTICOID DOSE, DURATION, AND INTENSITY MAY HELP REDUCE THE RISK OF OIS. THE DIFFERENTIAL EFFECTS OF VARIOUS GLUCOCORTICOIDS ON LYMPHOCYTE SUBPOPULATIONS MUST BE ACCOUNTED FOR IN FUTURE STUDIES TO BETTER QUANTIFY THE RISK OF OIS ATTRIBUTABLE TO GLUCOCORTICOIDS VERSUS UNDERLYING COMORBIDITIES OR OTHER IMMUNOSUPPRESSIVE MEDICATIONS.

Immunosuppressive potency of glucocorticoids



DANIEL B. CHASTAIN,
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CLINICAL ASSOCIATE
PROFESSOR
UNIVERSITY OF GEORGIA,
COLLEGE OF PHARMACY

- Hydrocortisone (total)
- Prednisolone (total)
- Methylprednisolone (total)
- Dexamethasone (total)
- Hydrocortisone (free)
- Prednisolone (free)

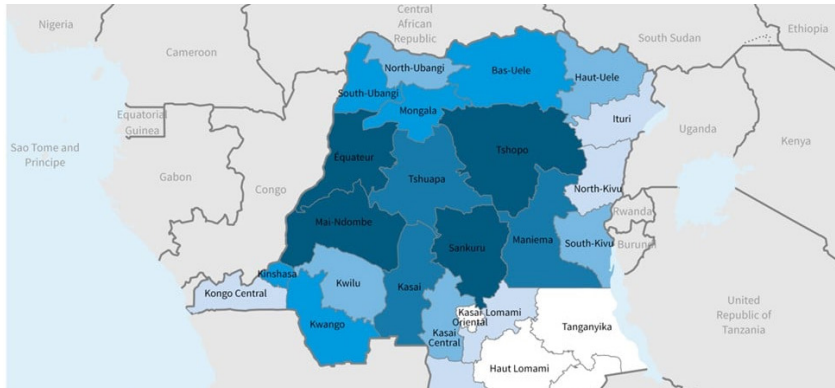
Pooled mean EC₅₀ values of glucocorticoids for cellular effects. Equivalent doses were based on glucocorticoid potency.

5 | GLOBAL
HEALTH



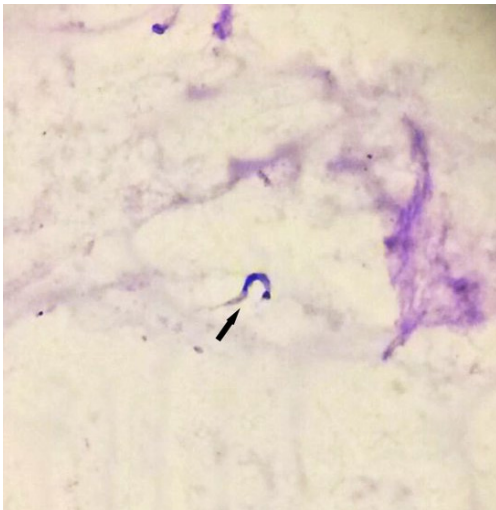
All photographs were taken with Canon EOS RP

MPOX in Africa



- The WHO has just published a release on the Mpx (monkey pox) outbreak in Democratic Republic of the Congo (DRC)
- The case fatality rate is nearly 5%, and already 600 people have died.
- While there are effective vaccines, they are not available to those in DRC.

Existing vaccines offer 66-90% protection and are recommended for those at risk. Despite global attention as a public health emergency of international concern, only a few countries maintain vaccine stocks. That's just plain, not fair.



LOCAL IS GLOBAL

Colorado

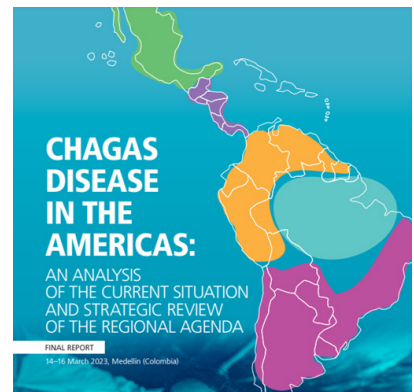
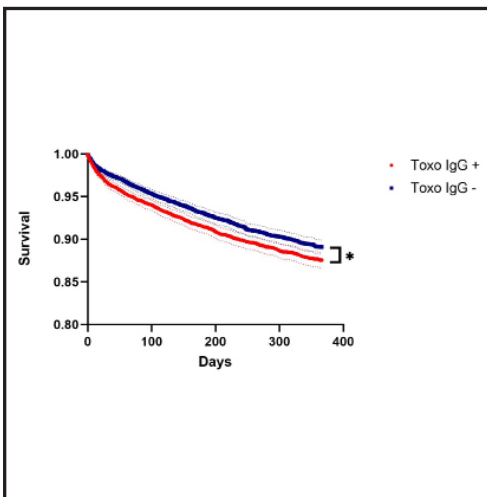
State health officials have confirmed that a person who tested positive for measles passed through the Denver International Airport. Cases of chickenpox are being reported among children in the migrant community living in Denver

Florida

Five cases of locally acquired dengue were reported this week. In 2023, positive samples from 172 humans and one mosquito pool have been reported from five counties.

USA

- Positive Toxoplasma IgG Serology Is Associated with Increased Overall Mortality – A PSM Analysis.
- Multifactorial, perhaps mediated by SDH, Tx availability and schizophrenia risk

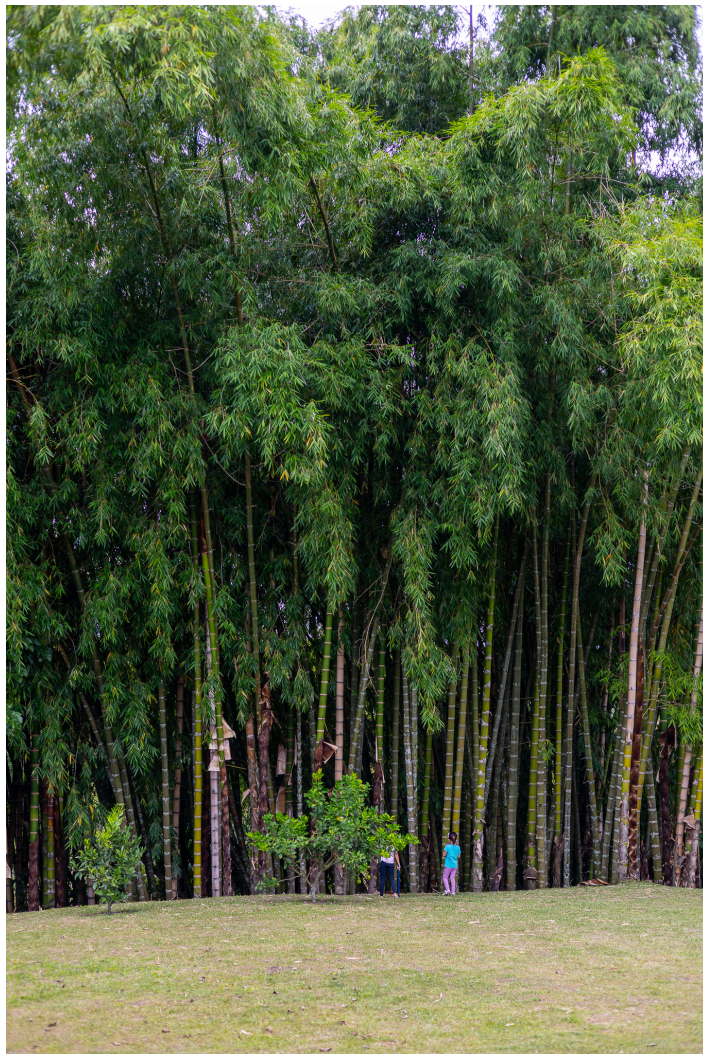


PATHOGENS

Chagas disease in the Americas

Chagas Disease in the Americas: An Analysis of the Current Situation and Strategic Review of the Regional Agenda. Final Report, 14-16 March 2023, Medellín (Colombia). Great work of PAHO team and invited experts.

6 | TAID JOURNAL



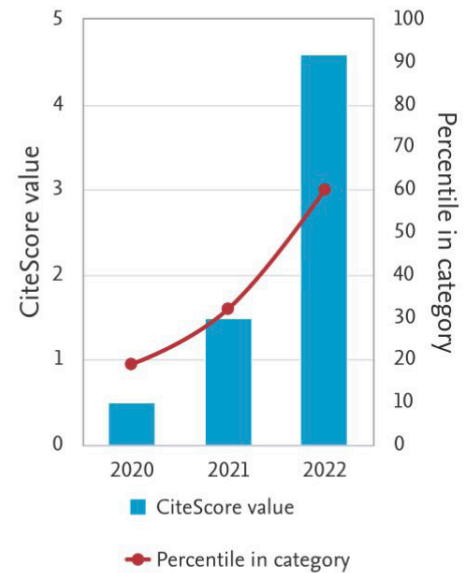
2023 NUMBERS AND OUR GROWTH

Impact Factor: 5.7
Q1 in Scopus (CiteScore: 4.6)
Readership: 188,794

Meet the [editors](#)

WE HAVE RETAINED A STRONG FOCUS ON PUBLISHING GOOD QUALITY SCIENCE AND EDITORIAL DECISIONS ARE NOT BASED ON NOVELTY OR PERCEIVED IMPORTANCE.

CiteScore trend



The [special collections](#) welcome contributions, which focus on but are not limited to the following areas:

- 2023: Pre-exposure Prophylaxis (PrEP) for Sexual Health and Wellness
- 2023: Update on invasive fungal infections
- 2023 Outpatient Parenteral Antimicrobial Therapy
- 2023: HIV and STI Prevention in Latin America
- 2023: INTEREST 2022: New perspectives in HIV treatment, pathogenesis and prevention in Africa
- 2022-2023: Infectious Diseases Due to Therapeutic Immunosuppression
- 2022-2023: Respiratory Syncytial Virus Infection.

