



University of Colorado
Anschutz Medical Campus

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A close-up photograph of green oak leaves with some small white spots, likely from a pest, against a blurred background of more foliage and a blue sky.

TRAVEL BULLETIN

The official COLORADO Tropical Medicine Newsletter

Prepared by:
Andres Henao, MD
Travel clinic director

FIRSTLY

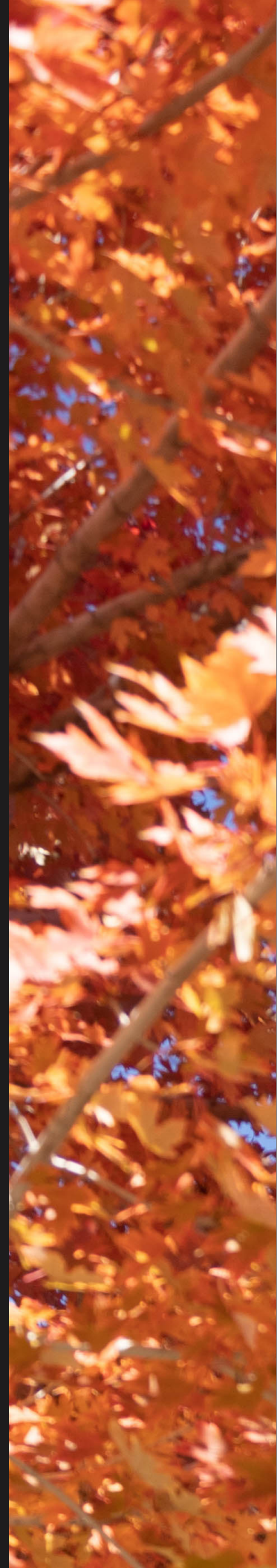
THANK YOU

**FOR YOUR DEDICATION
AND PATIENT CARE!**

We have arrived to the end of another exciting and fruitful year full of challenges and successes. We have continued our dedication to the travel clinic and global health. We have developed an outstanding care to our patients in travel medicine and provided unique care to patients affected with tropical illnesses. Finally we have continued our mission in clinical research, mentoring and teaching the younger generation of doctors. Happy 2023!

Andres Henao

Associate Professor of Medicine
University of Colorado Anschutz Medical Campus



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WE BUILD

EXPERIENCE

1 | WHO OUTBREAKS 2022.. SO FAR

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



World Health
Organization



Dengue
Bangladesh

As of 20 November 2022, a total of 52 807 laboratory-confirmed dengue cases and 230 related deaths have been reported.



Ebola
Uganda

A total of 141 confirmed cases and 55 confirmed deaths (CFR 39%) from Ebola disease caused by the Sudan Ebola virus (SUDV) have been reported.



MERS-CoV
SAUDI ARABIA

4 laboratory-confirmed cases of Middle East respiratory syndrome coronavirus (MERS-CoV) were reported to WHO.



Cholera
Malawi

Between 3 March through 31 October 2022, a cumulative total of 6056 cases including 183 deaths have been reported from 27 of 29 districts in Malawi.

NEWS

2

AND UPDATES

MONKEYPOX

We are proud to be involved in the clinical care and innovative research with the ongoing mpox infection. We learned from colleagues through the city-wide monkeypox committee. Call for more research opportunities is open!



MPOX INFECTION IN WOMEN

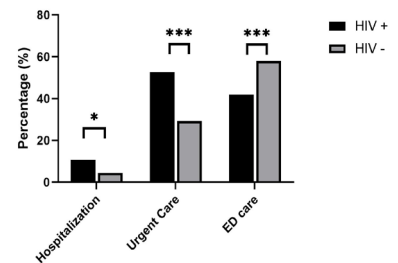
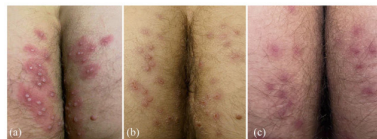


TECOVIRIMAT IN HIV + PATIENTS



OUTCOMES IN HIV+ PATIENTS

THE LANCET



The clinical features of monkeypox in women and non-binary individuals were similar to those described in men, including the presence of anal and genital lesions with prominent mucosal involvement.

We present two separate cases of human monkeypox infection in men who have sex with men and concomitant HIV disease who both presented for anogenital lesions and proctitis who were successfully treated with tecovirimat.

People living with HIV had higher rates of clinical manifestations and required greater utilization of healthcare resources with monkeypox infection.

WHAT IS NEW IN TROPICAL MEDICINE

Learning from others

We are driven by creating quality that deliver results for our patients

CHOLERA VACCINE

Cholera Vaccine: Recommendations of the Advisory Committee on Immunization Practices, 2022.

CRYPTOCOCCUS

The global burden of HIV-associated cryptococcal infection in adults in 2020. Globally, cryptococcal disease accounts for 19% (13–24) of AIDS-related mortality.

AFRICAN TRYPANOSOMIASIS

Another advance in the treatment of human African trypanosomiasis (HAT). Acoziborole led to treatment success rate of 95.2% at 18 months. As a single dose oral treatment; Acoziborole holds promise in the efforts to reach the WHO goal of interrupting HAT transmission by 2030. Great news!

MALARIA

NOSOCOMIAL malaria in a non-endemic country (France). Infections in 6 hospitalized patients without travel (over 15 yrs) were linked by genomics to patients concurrently admitted with imported malaria.



Participating and learning in the central American ID meeting (ACENCAI) in Panama

TOXOPLASMOSIS

Wolves infected with Toxoplasma gondii in Yellowstone National Park were 46 times more likely to become pack leaders and 11 times more likely to start a new pack than were uninfected animals.

MANSONELLA

Cross-sectional assessment of peripheral blood samples in Panama identified microfilaria — Mansonella ozzardi — in 96 cases. Most of these cases were found in East Panama (78%) followed by the Darien region (22%).

OUR SERVICES

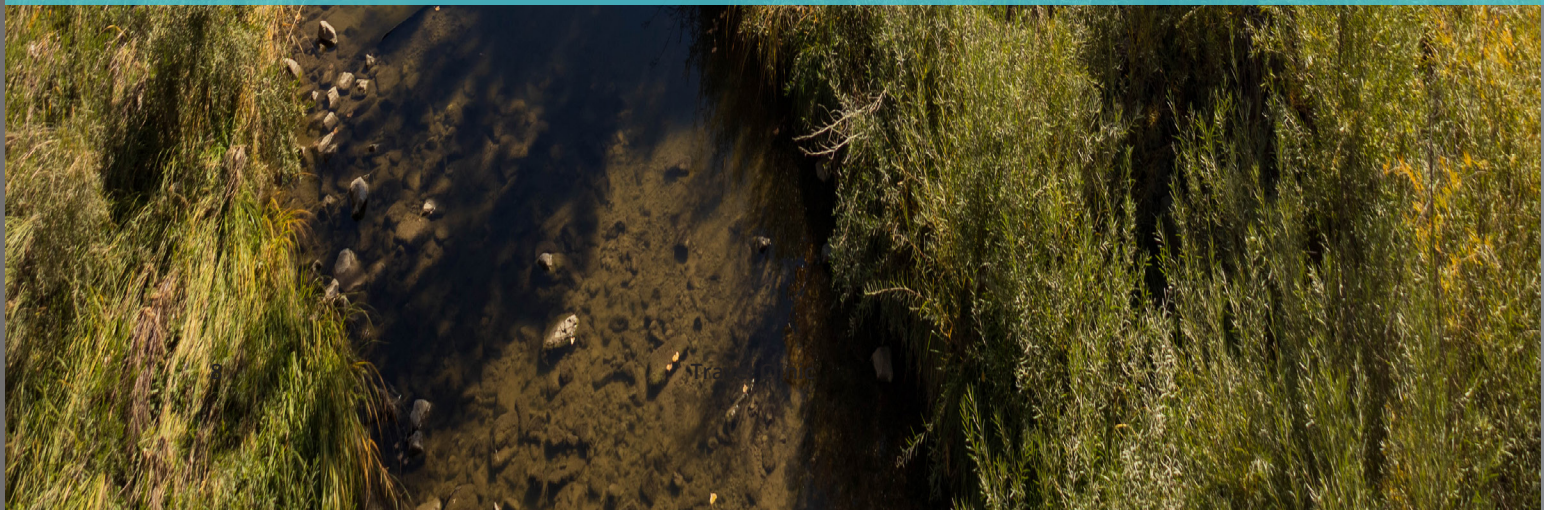
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IN THE TRAVEL CLINIC

... AND WE LIKE TO DO IT PERFECTLY

WE CONTINUE TO THRIVE

As travellers gain confidence in travelling internationally again, we are position to grow and be committed to provide start of the art travel medicine care.



OUR SERVICES

Don't forget we provide altitude medicine consultation !

ALTITUDE MEDICINE AT UNIVERSITY OF COLORADO

We are driven by creating experiences that deliver results for our patients



Altitude

Our altitude medicine group has been expanding into other travel areas

<<We are back up and running with our altitude medicine clinic. The most common mountain we see travellers heading towards at this time is Kilimanjaro. We have been able to mentor our first series of students through a research project, looking at water purification methods at altitude. The clinic has also helped draft guidelines for pregnant people looking to engage in altitude and outdoor travel pursuits.>>



NSF SUMMIT CAMP

Last year, we sent 3 UC Health doctors to [Summit Station](#)

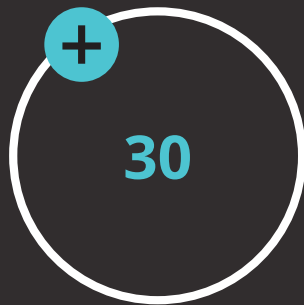


SUMMIT STATION IS A RESEARCH STATION, LOCATED AT 11,000 FEET OF ELEVATION, NEAR THE APEX OF THE GREENLAND ICE SHEET

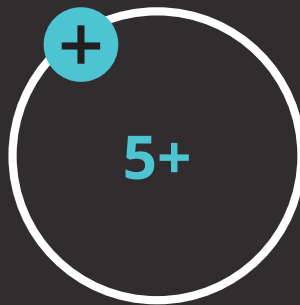


Dr. Elaine Reno attended the University of Cincinnati College of Medicine and completed her Emergency Medicine training at Denver Health Medical Center/ University of Colorado. She completed her Wilderness Medicine Fellowship in 2016 at the University of Colorado School of Medicine. She is currently an Assistant Professor of Emergency Medicine at the University of Colorado School of Medicine.

4 | RESEARCH ACTIVITIES 2022



**PUBMED INDEXED
PUBLICATIONS**



MENTEES



IDWEEK ABSTRACTS

WE ARE FULLY CHARGE



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



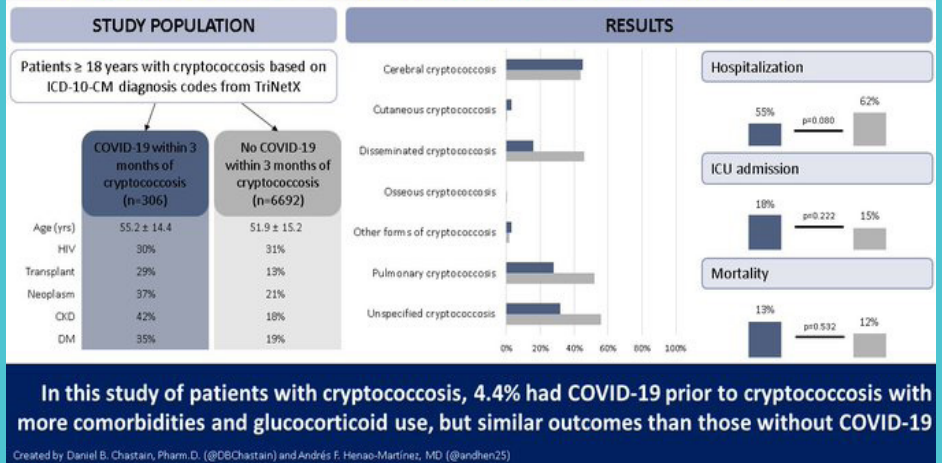
OUR TEAM

In facts and numbers

DOES COVID-19 AFFECT RISK AND OUTCOMES OF CRYPTOCOCCOSIS?

Patients with COVID-19 who developed cryptococcosis had independently higher rates of comorbidities and glucocorticoid use but similar outcomes, including death, versus those without COVID-19

Characteristics and outcomes of cryptococcosis among patients with and without COVID-19 from a multicenter research network



PRO-INFLAMMATORY CYTOKINE LEVELS IN SEPSIS

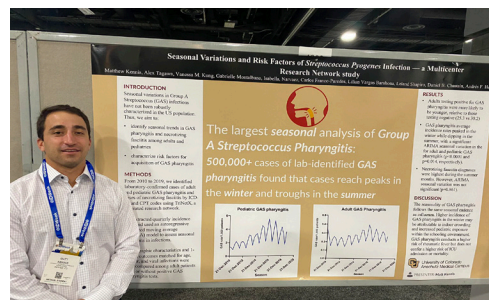
Sepsis mean TNF- α concentration is increased approximately 10-fold compared to mean concentration in healthy individuals, and TNF α associated with sepsis mortality but not sepsis severity. The concept that elevated cytokines cause sepsis should be revisited



<< Novel theoretical approach may be the only means To solve the riddle of sepsis>>
Leland Shapiro, MD

SEASONAL VARIATION IN GAS

Peaks in GAS pharyngitis occur in the winter months. ICD code-based necrotizing fasciitis did not show a quarterly seasonal variation. Work presented by Matt Kenis a medical student at IDWeek



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GLOBAL HEALTH



ACTIVE PARTICIPATION IN GLOBAL HEALTH EFFORTS



TRYPANOSOMA CRUZI

Chronic Chagas Disease-the Potential Role of Reinfections

Chagas cardiomyopathy and are linked to worse outcomes. Control efforts should be redirected to interventions that address structural poverty for the successful and sustainable prevention of Chagas disease.



POLIO VIRUS

The growing threat of wild poliovirus 1 in the COVID-19 era

Decision makers should consider immunisation of travellers, people in war-torn areas, and migrants in transit from settings with endemic transmission or from locations with ongoing outbreaks of circulating vaccine-derived poliovirus (VDPV).



ARBOVIRUSES

Nervous System Manifestations of Arboviral Infections

Led by Lakshmi, the review describe some of the most frequent and emerging neuro-invasive arboviral infections, and the spectrum of neurologic disorders including encephalomyelitis, Guillain-Barré syndrome, and ocular syndromes.



HIV/AIDS

Clinical challenges of managing advanced AIDS in the tropics

In patients with advanced AIDS, COVID-19 may coexist with other AIDS-related conditions, including respiratory and gastrointestinal opportunistic infections, especially in tropical countries such as Colombia.



LEPROSY

Novel approaches in the treatment of Hansen's disease

Leprosy disease continues to be a underfunded NTD with huge global health impact. This report is positioned to change 1st line therapy in leprosy . Monthly rifampin, moxifloxacin, and minocycline showed to be effective and safe.



YELLOW FEVER

A Perennial Threat

The threat of YF will linger far into the 21st century as a leading public health emergency of global concern under the International Health Regulations



OUR DIVISION

Global health efforts

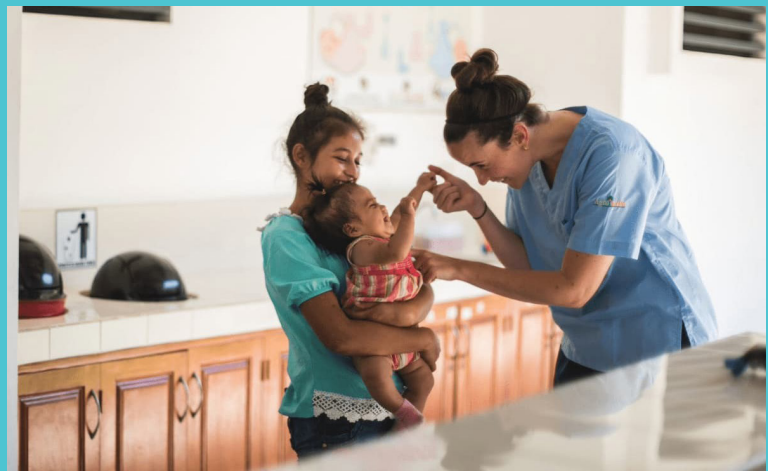
JOHN DAVID BECKHAM

Mario, Dan Olson, and Dave are co-PIs on a Roche Diagnostics funded project to evaluate antibody responses to SARS-CoV2 in a serosurvey of agricultural workers in southwest Guatemala (Trifinio)



HIGH SARS-COV-2 SEROPREVALENCE AMONG AGRICULTURAL WORKERS IN RURAL GUATEMALA

Participants seropositive at baseline were less likely to experience a symptomatic SARS-CoV-2 infection during follow-up, NAb titers rapidly waned, underscoring the need for multipronged COVID-19 prevention strategies in the workplace, including vaccination



UNIVERSITY OF ZIMBABWE

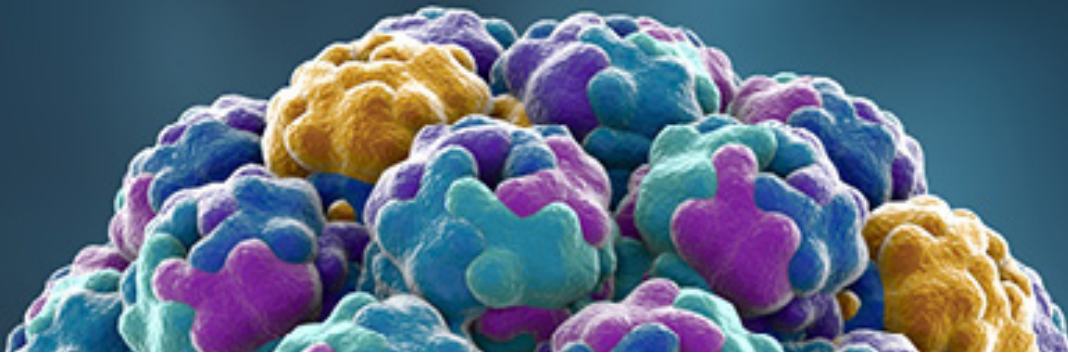
Thomas Flaig visit to University of Zimbabwe: "Tom Campbell has been the driving force for the Colorado component of the educational/research programs for 20+ years"



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TAID JOURNAL

THERAPEUTIC ADVANCES in *Infectious Disease*

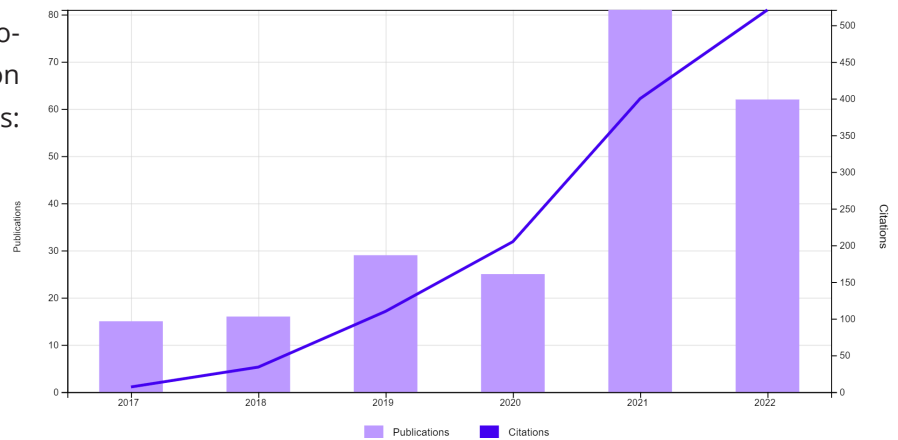
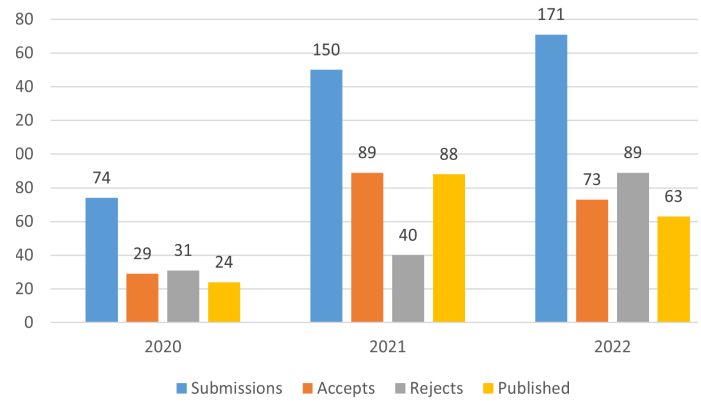


2022 NUMBERS AND OUR GROWTH

General overview:

- Accept rate: 45%
- Average days from submission to first decision: 43 days
- 171 original submissions, 63 publications
- 147,656 Full text downloads (through end of October)
- Most read article in 2022: Burnham JP. [Climate change and antibiotic resistance: a deadly combination.](#)
- Top cited paper published in 2022: Ortiz-Martínez Y, Rodríguez-Morales AJ, Franco-Paredes C, et al. [Monkeypox](#) – a description of the clinical progression of skin lesions: a case report from Colorado, USA.

Therapeutic Advances in Infectious Disease



This [special collection](#) welcomes contributions, which focus on but are not limited to the following areas:

- Encephalitis
- CNS Infection
- Neurological Complications of COVID-19
- Neurological Complications of HIV/AIDS
- Meningitis
- Transplant Related Infections
- Travel Related Infections
- Tropical Diseases
- Neurological infectious disease from a global health perspective

Special Collection

Neuroinfectious Diseases

Guest Editor:
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