SOME IMPORTANT ID PUBLICATIONS WITH IMPLICATIONS FOR CLINICAL MANAGEMENT — 2023 (SO FAR)



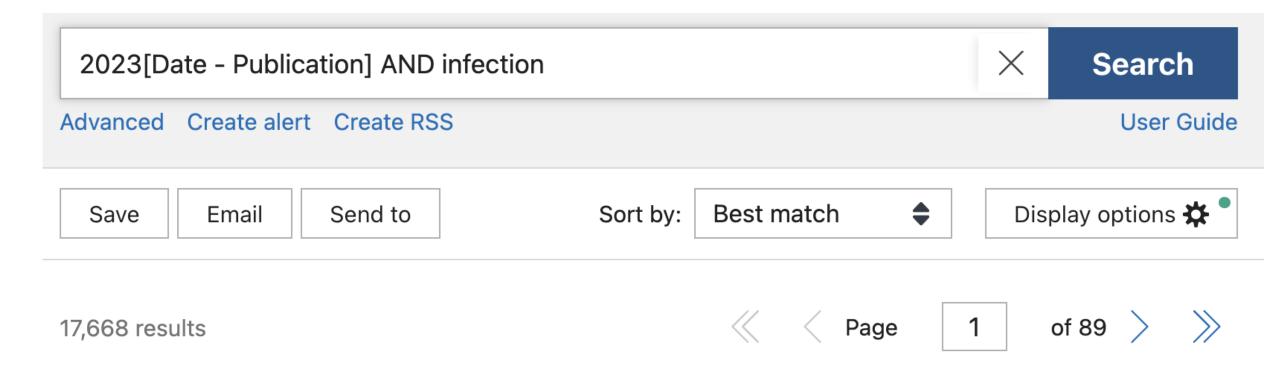
Stan Deresinski



4 November 2023

Papers with "Infection" in the title published in 2023 as of 11 AM on Friday, November 3

N = 17,668



The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Inhaled Amikacin to Prevent Ventilator-Associated Pneumonia

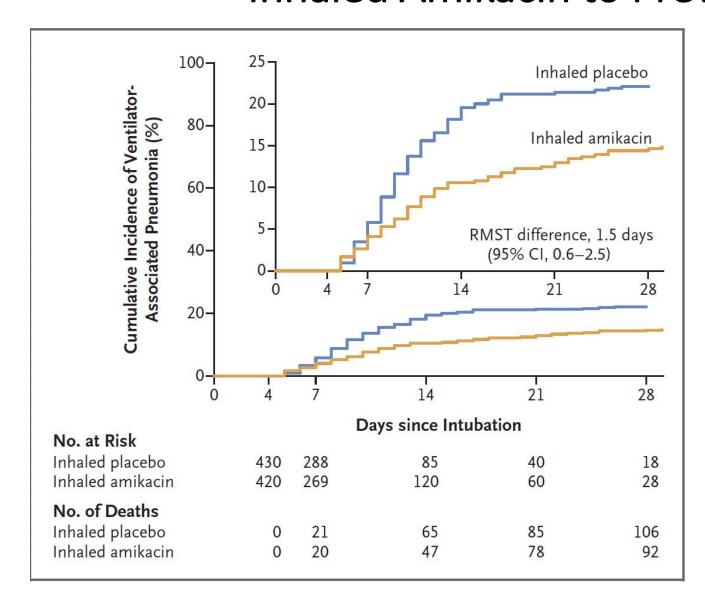
October 25, 2023

DOI: 10.1056/NEJMoa2310307

Inhaled Amikacin to Prevent VAP

- Randomized, double-blind, placebo-controlled superiority trial 19 French ICUs
- MV for 72-96 hours
- Exclusions:
 - Suspected or confirmed VAP, RRT, GFR<30, trach tube, imminent extubation, systemic aminoglycoside
- Randomized (stratified by center & systemic antibiotics) to 20 mg/kg amikacin or equivalent volume NS - each daily for 3 consecutive days
- Primary outcome: 1st episode VAP to day 28
 - Blinded adjudication: VAP = positive quantitative culture plus ≥2 of hyperleukocytosis, leukopenia, fever, purulent secretions with new infiltrate
- 850 patients needed for 80% power with 2-sided alpha = 0.05 with estimated outcomes of 6% & 12%

Inhaled Amikacin to Prevent VAP



 $\frac{\text{VAP}}{\text{Amikacin N} = 62 (15\%)}$ Placebo N=95 (22%)

Difference in RMST: **1.5 days** (95% CI 0.6t o 2.5; P=0.004)

In-Hospital Deaths
Amikacin 123 (29%).
Placebo 136 (32%)

HR 0.91 (0.71 to 1.16)

Beta-Lactam -Prolonged Infusion Official Recommendations

Surviving Sepsis – 2021

For adults with sepsis or septic shock, we suggest using prolonged infusion of beta-lactams for maintenance (after an initial bolus) over conventional bolus infusion.

Critical Care Medicine 49(11):p e1063-e1143, November2021. | DOI: 10.1097/CCM.000000000005337

Beta-Lactam -Prolonged Infusion Official Recommendations

<u>International consensus recommendations</u> for the use of prolonged-infusion beta-lactam antibiotics -2023 (Endorsed by 7 organizations, including IDSA, SIDP, ESCMID)

We suggest PI β-lactam antibiotics over SI to reduce mortality or increase clinical cure among severely ill adult patients, particularly those with gram-negative infections.

Conditional recommendation; very low certainty of evidence. (Panel vote 17–0 in favor of this recommendation)

Pharmacotherapy 2023 Aug;43(8):736-739. doi: 10.1002/phar.2844

Prolonged/Continuous Beta-Lactam Infusions Systematic Reviews/Metanalyses

- Vardakas et al (1)
 - 22 randomized trials
 - 1876 subjects with sepsis
 - Anti-pseudomonal BLs
 - Primary endpoint: all-cause mortality
 - Prolonged (\geq 3h) or continuous infusion Vs short (\leq 1h)- risk ratio: 0.70 (95% CI, 0.56 0.87)
- Rhodes et al (2)
 - 18 studies: 9 prospective, 9 retrospective, randomized
 - 8 critically ill with sepsis, severe sepsis, septic shock; 3 HAP or VAP
 - 3401 subjects
 - Piperacillin-tazobactam
 - Primary endpoint: all-cause mortality
 - Prolonged (3-4 h) or continuous infusion Vs 0.5 h risk ratio: 0.69 (95% CI, 0.56 -0.84)
- 1. Lancet Infect Dis. 2018;18(1):108-120. doi:10.1016/S1473-3099(17)30615-1
- 2. Crit Care Med. 2018;46(2):236-243. doi:10.1097/CCM.000000000002836

June 16, 2023

Continuous vs Intermittent Meropenem Administration in Critically III Patients With Sepsis The MERCY Randomized Clinical Trial

Giacomo Monti, MD^{1,2}; Nikola Bradić, MD^{3,4}; Matteo Marzaroli, MD¹; et al

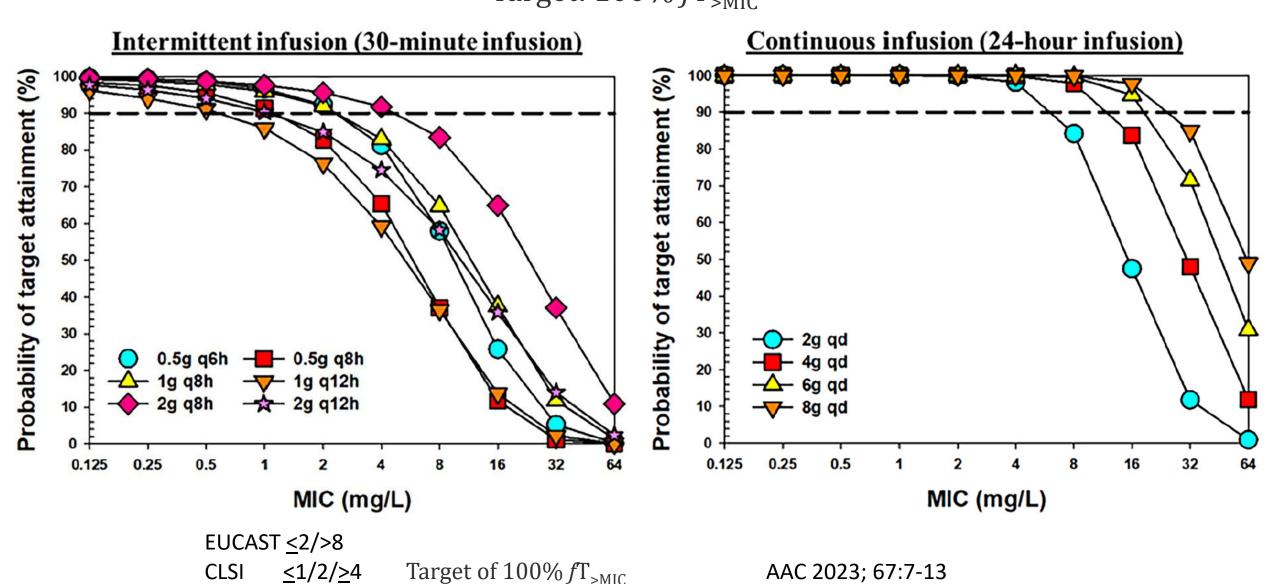
JAMA. 2023;330(2):141-151. doi:10.1001/jama.2023.10598

MERCY: Meropenem CI Vs Intermittent

- Critically ill (N = 607) with sepsis/septic shock who had been prescribed meropenem
- Excluded severe immunosuppression (eg, AIDS, etc)
- Randomized, double-blind; N=607
 - 1 gram loading dose, then either
 - 3 grams CI over 24 hours OR
 - 1 gram every 8 hours each over 30—60 minutes
- Primary outcome: composite of all-cause mortality & emergence of pan- or XDR-resistance
- <a>≥80% power to detect 12% absolute risk reduction with alpha = 0.05

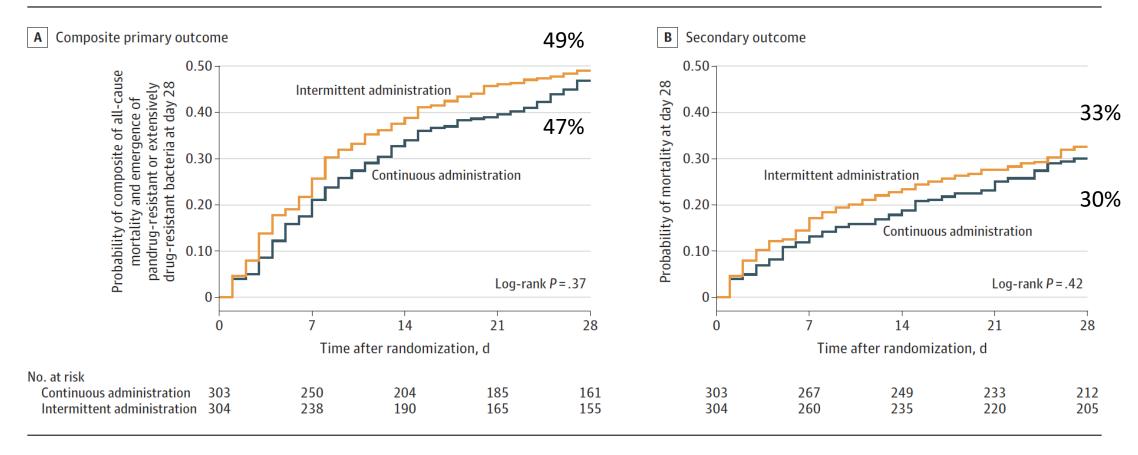
Meropenem PK/PD Target Attainment

Target: $100\% fT_{>MIC}$



MERCY: Meropenem CI Vs Intermittent

Figure 2. Kaplan-Meier Analysis for the Composite Primary Outcome and the Secondary Outcome of Probability of Mortality at Day 28



RR 0.96, 95% CI 0.81 TO 1.13; P=0.60

RR 0.92, 95% CI 0.73 to 1.17; P=0.50

Potential issues: Not all GNR (77.9%), Only 10% had BSI, Concurrent antibiotics in three-fourths

JAMA 2023; 330:141-151.

BLING III

ACTIVE, NOT RECRUITING 1

Beta-Lactam InfusioN Group Study (BLING III)

ClinicalTrials.gov ID NCT03213990

Sponsor • The George Institute

Information provided by • The George Institute (Responsible Party)

Last Update Posted 1 2023-01-25

A Phase III Randomised Controlled Trial of Continuous Beta-lactam Infusion Compared With Intermittent Beta-lactam Dosing in Critically III Patients

- Piperacillin OR meropenem
- Primary endpoint all-cause mortality
- Planned enrollment: 7000 patients (70 ICUs worldwide; 35 Australia, New Zealand

Actual enrollment as of 1 January 2023: 7203

Artificial Intelligence & Infectious Diseases

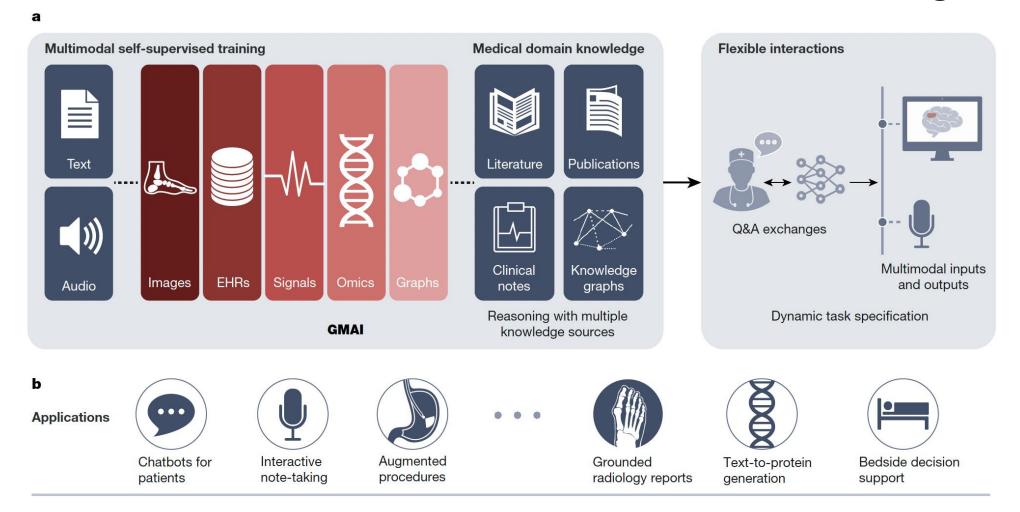
Leveraging Artificial Intelligence in the Fight against Infectious Diseases.

- Major challenges in AI ID:
- Pathogen outbreaks & pandemics
- Antimicrobial resistance & anti-infective drug discovery
- Neglected, persistent & difficult to treat infection

Advances in Artificial Intelligence for Infectious Disease Surveillance

- Early Warning
 - Outbreaks natural language processing of news (eg HealthMap)
 - Novel infections machine learning and social media
- Pathogen classification, type, AMR
- Source ID eg EMR mining, WGS
- Risk Assessment

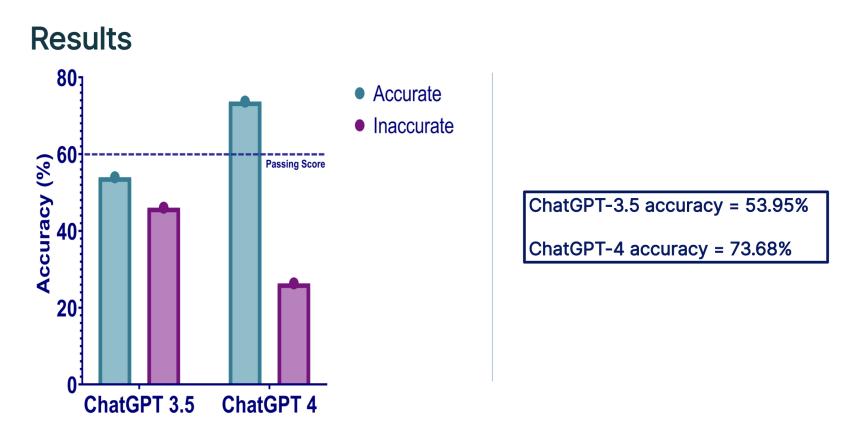
Foundation Models for Generalist Medical Artificial Intelligence



Some ChatBots: Claude, ChatGPT, GPT-4, Bard

(GPT = Generative Pre-trained Transformer)

ChatGPT Performance in the Brazilian Infectious Disease Specialty Examination



"Although ChatGPT-4 surpassed the passing score on the multiple-choice test, its 26.32% error rate limits its current clinical use, as patient care information must be reliable."







Clinical Infectious Diseases

MAJOR ARTICLE

Can Chatbot artificial intelligence replace infectious disease physicians in the management of bloodstream infections? A prospective cohort study.

Queried Chat GPT-4 for diagnosis, management plans for 44 consecutive patients with first positive blood cultures

Conclusion:

"The management plans of ChatGPT-4 for a first positive blood-culture episode were considered **optimal in 2%, satisfactory in 39%, and harmful in 16% of cases**: its use without consultant input remains hazardous in this setting."

Clin Infect Dis. 2023 Oct 12:ciad632. doi: 10.1093/cid/ciad632

CORRESPONDENCE | VOLUME 23, ISSUE 4, P405-406, APRIL 2023



丛 Download Full Issue



ChatGPT and antimicrobial advice: the end of the consulting infection doctor?

Published: February 20, 2023 • DOI: https://doi.org/10.1016/S1473-3099(23)00113-5

2022: Methylprednisolone Severe CAP

- Randomized, double blind, placebo controlled
- Severe CAP ICU; N = 584 96% male (VA study)
- Placebo vs. methylprednisolone 40 mg bolus then 40 mg/day thru day 7 with taper – total duration 20 days
- Primary outcome: 60 d mortality

• Methylprednisolone: 47/286 16% (95% CI,)

• Placebo: 50/277 18% (95% CI,)

• Absolute Diff (unadjusted): -2% (95% CI, -8% to 5%); P=0.6

Study stopped due to poor enrollment; 1406 needed to have 86% power to achieve 7% difference in mortality.

The NEW ENGLAND JOURNAL of MEDICINE

ESTABLISHED IN 1812

MAY 25, 2023

VOL. 388 NO. 21

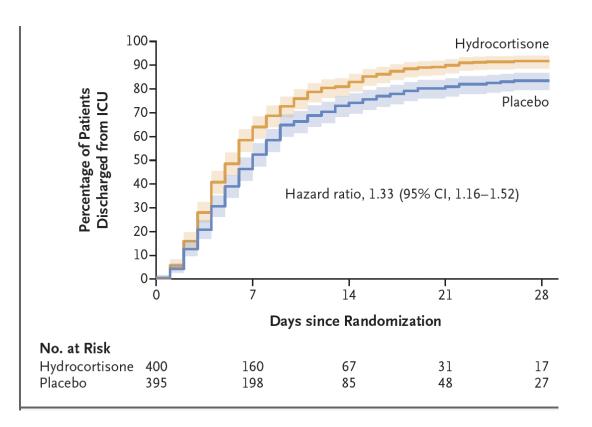
Hydrocortisone in Severe Community-Acquired Pneumonia

Hydrocortisone in Severe CAP

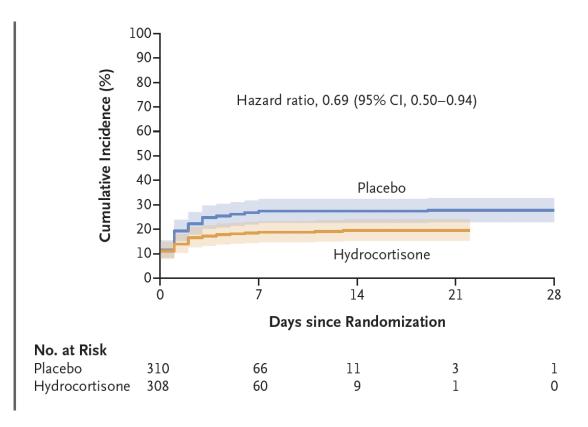
- Randomized, double blind, placebo controlled in French ICUs
- October 28, 2015 March 11, 2020
- Severe CAP requiring ICU care; N = 795
- Placebo vs. hydrocortisone 200 mg IV/d for 8-14 d (depending on predefined criteria) with taper
- Primary outcome: 28 d mortality
 - Hydrocortisone: 25/400 **6.2%** (95% CI, 3.9 8.6)
 - Placebo: 47/395 **11.9%** (95% Cl, 8.7 15.1)
 - Absolute Diff: -5.6% (95% CI, -9.6 to -1.7) **P=0.0006**

Hydrocortisone in Severe CAP

Discharge from ICU by Day 28



New Intubation



Corticosteroids for CAP: Meta-Analysis & Meta-Regression of Randomized, Controlled Trials

15 trials

30-day all cause mortality:

Corticosteroids: 104/1690 (6.15%)

Controls: 152/1677 (9.06%)

95% CI, 0.53 to 0.85; **P=0.001**

n=1690

Compared to

Corticosteroids

Placebo

n=1678

Time to clinical stability (4 studies)

-1.46 days; :

95% CI, −1.51 to −1.41 days; P < .001;

All-cause mortality at 30 days

Incidence of ARDS

Incidence of any adverse event

0.67 [0.53 - 0.85]

0.24 [0.08-0.77]

0.9 [0.65 - 1.24]

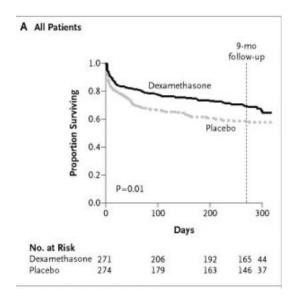
Benefits were more pronounced in severe pneumonia and patients admitted to the ICU

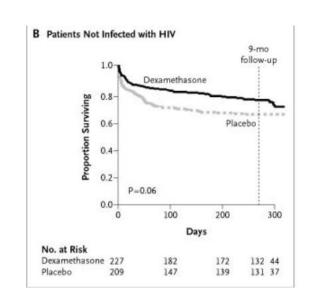
Clin Infect Dis, ciad496, https://doi.org/10.1093/cid/ciad496

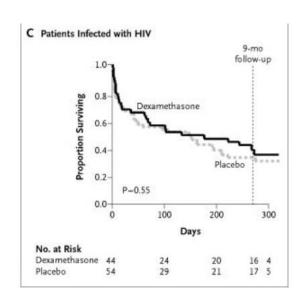
Oct 23, 2023

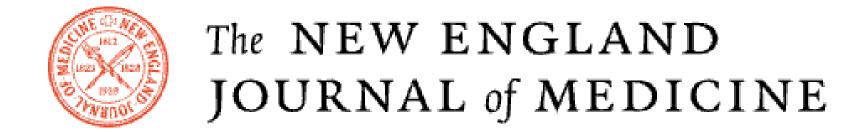
2004: Adjunctive Dexamethasone in Tuberculous Meningitis – In Adolescents& Adults

- 545 randomized
- "Adjunctive treatment with dexamethasone improves survival in patients over 14 years of age with tuberculous meningitis but probably does not prevent severe disability."
- Only 98/545 HIV infected









ORIGINAL ARTICLE

Adjunctive Dexamethasone for Tuberculous Meningitis in HIV-Positive Adults

October 12, 2023

N Engl J Med 2023; 389:1357-1367

DOI: 10.1056/NEJMoa221621

Adjunctive Dexamethasone for Tuberculous Meningitis in HIV-Positive Adults

- 520 patients randomized in Ho Chi Minh City & Jakarta
 - 80% power for 2-sided 5% significance level assuming 5% loss to follow-up.
- Stratified by site and severity
- 255/520 (49.0%) ART-naïve
 - ART started 6-8 weeks after initiation of anti-TB Rx
- 251/484 (51.9%) CD4 <50/mm³
 - 15.1% >200/mm³
- Primary endpoint: All-cause mortality

Adjunctive Dexamethasone for Tuberculous Meningitis in HIV-Positive Adults - Desath

Dexamethasone:

116/263 (**44.1%**)

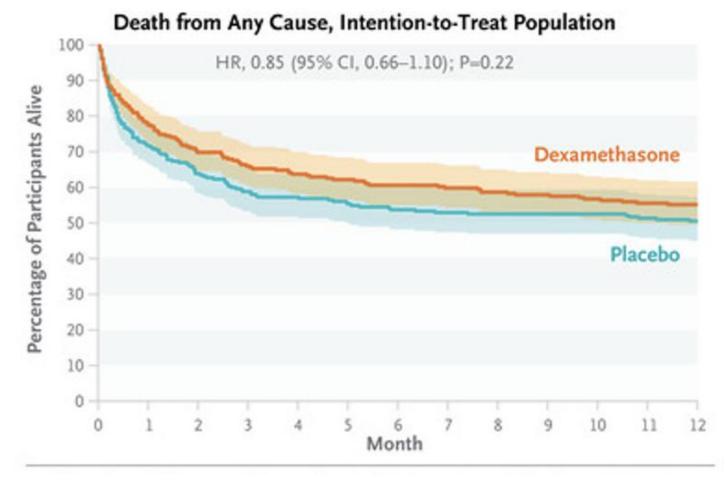
Placebo:

126/251 (49.0%)

HR 0.85, 95% CI 0.66-

1.10.

P = 0.22



Adjunctive Dexamethasone for Tuberculous Meningitis in HIV-Positive Adults

Some possible confounders:

• Approximately ¼ (26.5%) in each group received corticosteroids off-label.

Observed HR less than anticipated – affecting power calculation.

Advanced HIV – what about patients with controlled HIV infection?

Clinical Infectious Diseases

VIEWPOINTS







The 2023 Duke-International Society for Cardiovascular Infectious Diseases Criteria for Infective Endocarditis: Updating the Modified Duke Criteria

https://doi.org/10.1093/cid/ciad271

The 2023 Duke International Society for Cardiovascular Infectious Diseases Criteria for Infective Endocarditis: Updating the Modified Duke Criteria

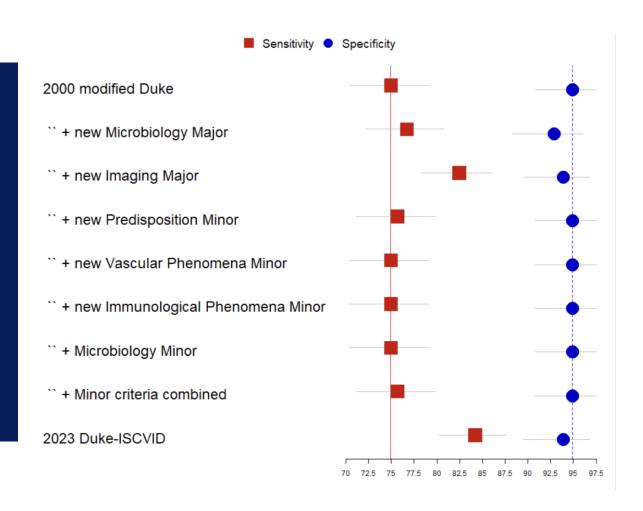
A Selective Sampling of Changes:

- Expanded the list of "typical pathogens" to include, e.g., Staphylococcus lugdenensis, Graniculatella, Abiotrophia, etc.
- In presence of intracardiac prosthetic material, list expanded to include, e.g., Corynebacterium striatum, Cutibacterium acnes
- "...requirements for blood cultures specifying timing and separate venipunctures should be discontinued" & separate venipunctures no longer required
- Added NAA tests on blood for Coxiella, Bartonella, Tropheryma & IFA for Bartonella
- Cardiac CT, PET CT

External Validation of 2023 Duke-ISCVID Criteria for Infective Endocarditis

Diagnostic accuracy

	Sensitivity (95% CI)	Specificity (95% CI)	P-value (sensitivity) vs Duke-ISCVID	P-value (specificity) vs Duke-ISCVID
2000 Modified Duke Criteria	74.9 (70.4 - 79.1)	94.9 (90.8 - 97.5)	<0.001	0.16
2015 ESC Criteria	80.0 (75.7 - 83.8)	93.9 (89.6 - 96.8)	<0.001	1
2023 Duke- ISCVID Criteria	84.2 (80.3 - 87.7)	93.9 (89.6 - 96.8)	-	-



Endocarditis – 95 Pages From Europe



ESC GUIDELINES

2023 ESC Guidelines for the management of endocarditis

Developed by the task force on the management of endocarditis of the European Society of Cardiology (ESC)

THE LANCET



Volume 401, Issue 10370, 7–13 January 2023, Pages 49-59

Articles

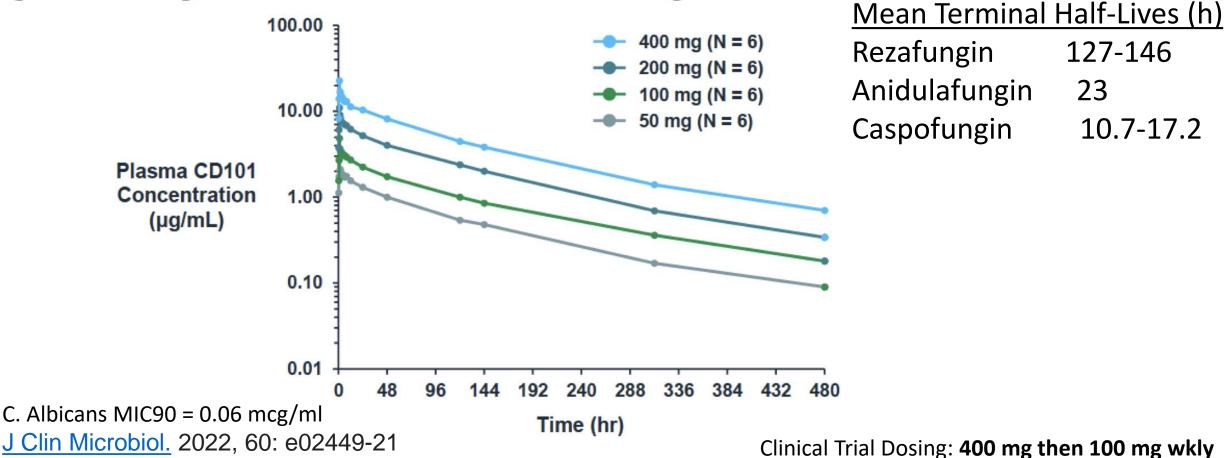
Rezafungin versus caspofungin for treatment of candidaemia and invasive candidiasis (ReSTORE): a multicentre, double-blind, double-dummy, randomised phase 3 trial

REZAFUNGIN

Anidulafungin with a choline moiety at the C5 ornithine position

One week = 168 hours

Figure 9: Single-Dose Pharmacokinetics of IV Rezafungin



https://www.fda.gov/media/164668/download

Rezafungin versus Caspofungin for Treatment of Candidaemia and Invasive Candidiasis (ReSTORE)

- 199 randomized; stratified by BSI (70%) or IC, APACHE II, ANC
- Rezafungin: 400 mg IV -→ 100 mg q week for 2-4 weeks*
- Caspofungin: 70 mg IV -→ 50 mg daily for ≤4 weeks (fluconazole step-down allowed)*
- Primary endpoints:
 - Global (clinical, radiologic, mycological cure as appropriate) Day 14
 - Mortality Day 30

^{*}The median duration IV + PO in each group was 14 days.

Rezafungin Vs. Caspofungin

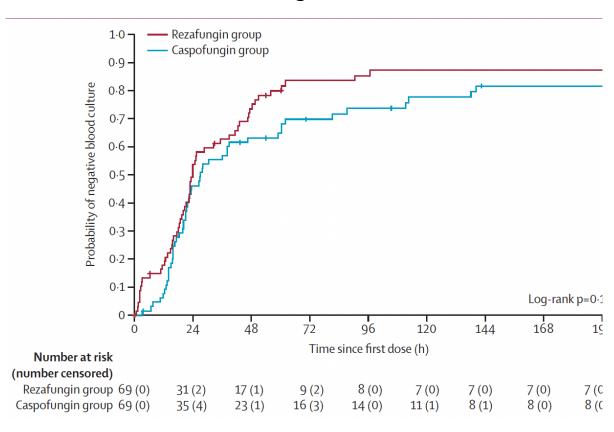
Time to Negative Blood Culture

Global Success

Rezafungin	55/93	59%
Caspofungin	57/94	61%

Mortality

Rezafungin	22/93	24%
Caspofungin	20/94	21%



Median time to a negative blood culture was 23.9 h (IQR 15.4-48.3) for the rezafungin group and 27.0 h (16.4-111.3) for the caspofungin group (p=0.18;

Lancet 2023; 401: 49-59.

Sulbactam-Durlobactam

- Sulbactam BLI with antibacterial activity against Acinetobacter PB1, PBP3
- Durlobactam diazabicyclooctane serine BLI inhibitor of Ambler class A, C, and D β -lactamases not MLB
- BLI protecting a BLI!

- 2.3% 3.7% resistance in *Acinetobacter baumanii* complex (ABC)
 - due to PBP3 mutations, MBL:

doi: 10.3390/antibiotics11121793

Clinical Trial > Lancet Infect Dis. 2023 Sep;23(9):1072-1084.

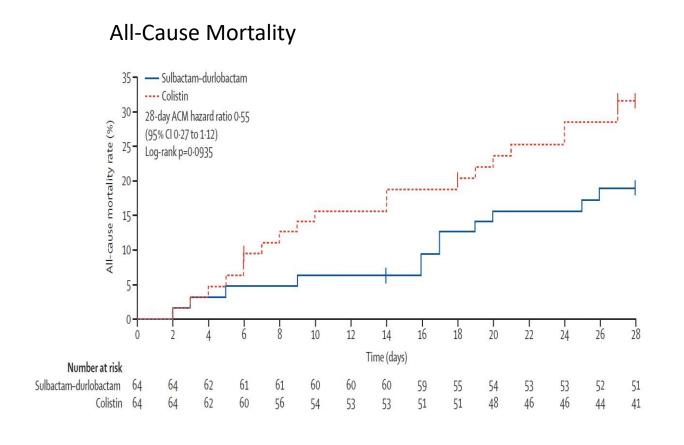
doi: 10.1016/S1473-3099(23)00184-6. Epub 2023 May 11.

Efficacy and safety of sulbactam-durlobactam versus colistin for the treatment of patients with serious infections caused by Acinetobacter baumannii-calcoaceticus complex: a multicentre, randomised, active-controlled, phase 3, non-inferiority clinical trial (ATTACK)

Sulbactam-Durlobactam Vs. Colistin in *Acinetobacter* baumannii–calcoaceticus complex (ABC) Infections

- 186 patients (175 pneumonia, 5 BSI)
- 125/186 with confirmed carbapenem-resistant ABC infections in primary outcome (28 d mortality) analysis.
- All received imipenem; randomized to sulbactam-durlobactam or colistin
- Non-inferiority:
 - If upper bound of 95% CI for Rx difference less than +20%

Sulbactam-Durlobactam Vs. Colistin in *Acinetobacter* baumannii–calcoaceticus complex (ABC) Infections



28-day all cause mortality:

Colistin: 20/62 (32%). Sul/Durl: 12/63 (19%)

Difference: -13% (95% CI, -30.0 to 3.5)

Nephrotoxicity:

Colistin: 32/85 (38%) Sul/Durl: 12/91 (13%).

P<0.001

All patients also received imipenem.

Lancet Infect Dis 2023; 23: 1072–84

The Washington Manual™ Survival Guide Series

Outpatient Medicine Survival Guide



RESPIRATORY SYNCYTIAL VIRUS DISEASE IN INFANTS DESPITE PRIOR ADMINISTRATION OF ANTIGENIC INACTIVATED VACCINE^{1, 2}

HYUN WHA KIM, JOSE G. CANCHOLA, CARL D. BRANDT, GLORIA PYLES, ROBERT M. CHANOCK, KEITH JENSEN, AND ROBERT H. PARROTT

(Received for publication August 8, 1968)

- Formalin-inactivated vaccine
- 80% of 85 who developed RSV required hospitalization majority with pneumonia and or bronchiolitis
 - 5% in controls (parainfluenza type 1 vaccine)

RSV Prevention – Vaccines, Monoclonals

- Vaccines for Older Adults
 - Arexvy (GSK; adjuvanted); Abrysvo (Pfizer)
 N Engl J Med 2023;388:595-608.
 N Engl J Med 2023;388:1465-77.
- Immunizations to Protect Infants and Children
 - Maternal vaccination Abrysvo (Pfizer) at 32-36 weeks
 N Engl J Med 2023; 388:1451
 OR
 - Monoclonal antibody nirsevimab (pavilizumab)
 N Engl J Med 2023;388:1533-1534

ORIGINAL ARTICLE

Single-Dose Rifapentine in Household Contacts of Patients with Leprosy

- Why should we care?
- WHO: Present in >120 countries with 200,000 new cases/year
- United States: 159 new diagnoses in 2020 with 6 states accounting for 69% of cases – Florida, California, Louisiana, Hawaii, New York, Texas
- California ???autochthonous transmission??? 6 cases:
 - Belzer et al Autochthonous leprosy in the United States. N Engl J Med 2023;388:2485-2487.

N Engl J Med 2023;388:1843-52.

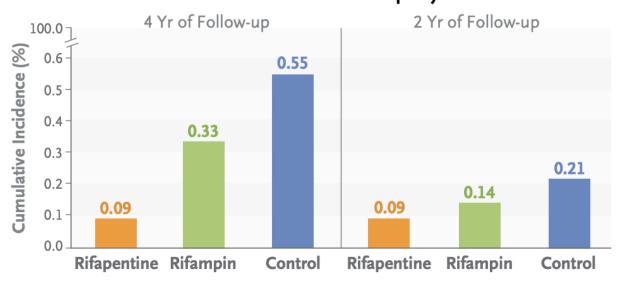
DOI: 10.1056/NEJMoa2205487

Single Dose Rifapentine in Household Contacts of Patients with Leprosy

- Cluster-randomized trial in Southwest China
- 207 clusters with 7450 household contacts randomized to single dose rifampin, single dose rifapentine, or no intervention
- Primary outcome: 4-year cumulative incidence of leprosy in household contacts
- 86.7% of index cases were multibacillary
 - Median 3 (IQR 2-4) contacts per index case

Single Dose Rifapentine in Household Contacts of Patients with Leprosy

Cumulative Incidence of Leprosy



Outcome	No. of Cases Cumulative Incidence of Leprosy (95% CI) percent		Cumulative Incidence Ratio	P Value	
4-Yr cumulative inciden	ce				
Control	13	0.55 (0.32-0.95)		1.00	
Rifapentine	2	0.09 (0.02-0.34)		0.16 (0.03-0.87)	0.02
Rifampin	9	0.33 (0.17-0.63)	-	0.59 (0.22-1.57)	0.23

Idiopathic CD4 Lymphoctopenia - The History

- 1981 Gay men with PCP, KS low CD4
- 1983 HIV identified
- 1985 HIV antibody test approved
- 1987 Zidovudine approved
- 1992 "Unexplained CD4+ T-lymphocyte depletion in persons without evident HIV infection" 21 cases reported in MMWR
 - "AIDS without HIV"
 - Idiopathic CD4 lymphocytopenia (ICL)

ORIGINAL ARTICLE

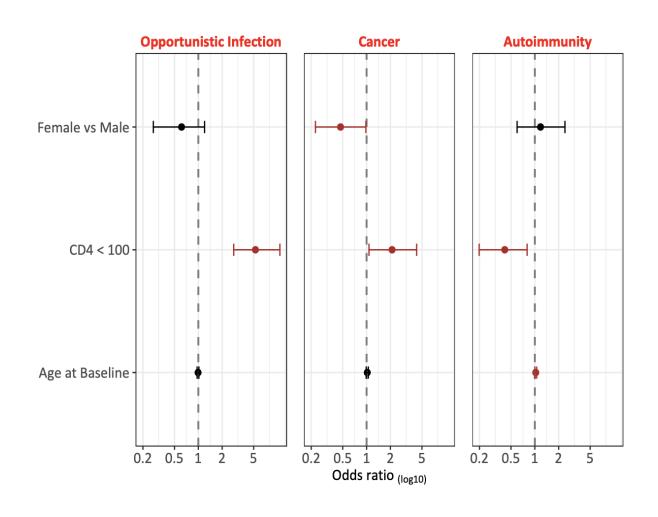
Reappraisal of Idiopathic CD4 Lymphocytopenia at 30 Years

- Adults with CD4 <300 or <20% & twice previously at least 6 weeks apart in absence of disease or therapy causing lymphocytopenia
- 108 enrolled, 91 included median age 48 years, 51% male
 - Among reasons for exclusion: CVI, chemotherapy for lymphoma, autoimmune disease, inborn errors of immunity with genetic variants in *NFKB1*, *P13CD*, *FAS*, *IL2RG*, *COCK8*, or *CD4*.
- Median cell counts (IQR): CD4 80 (25-168), CD8 130 (58-317)
- Infection at enrollment or during follow-up (median, 3 yrs) in 69%; Autoimmune condition in 36%.

Reapprasial of Idiopathic CD4 Lymphocytopenia - Infections

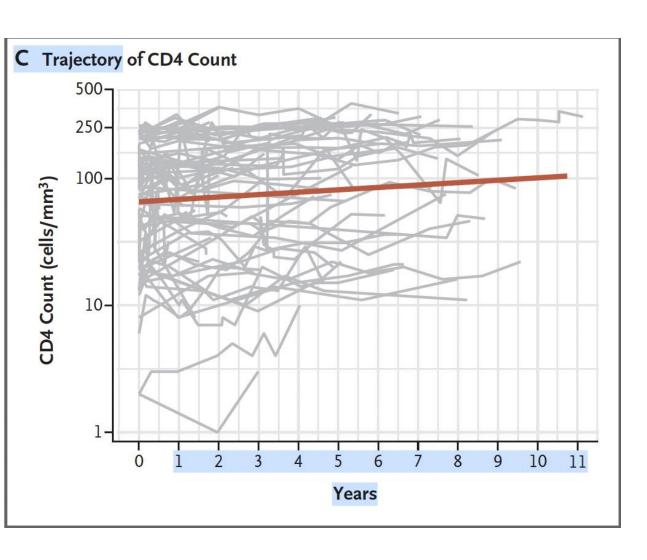
- ≥1 infectious complication: 63/91 (69%)
- \geq 1 OI "of clinical significance": 53/91 (58%); 49/53 at screening
 - Severe skin or anogenital HPV 27 (29%
 - Cryptococcal infection 22 (24%); 16/22 meningitis, 4 pneumonia, 2 disseminated skin/musculoskeletal
 - Molluscum contagiosum 8
 - NTM 5
 - Histoplasmosis 4; 1 pulmonary, 3 disseminated
 - PML 3
 - Multi-dermatomal or complication and herpes zoster, CMV 2 each
 - 55% received OI prophylaxis, mostly for PJP but also some azithromycin, fluconazole

Idiopathic CD4 Lymphocytopenia – NIH CD4 & Complications



- Most common opportunistic pathogens: HPV, Cryptococcus
- Prevalence of 6 cancers higher than general population:
 - anal, vulvovaginal, oral cavity or pharynx, papillary thyroid carcinoma, non-Hodgkin's lymphoma, and Kaposi's sarcoma
- 44 autoimmune diseases in 33 patients
 - 30 at enrollment, 14 during follow-up

Course of CD4 Lymphocytopenia



 CD4 Increased by factor of 1.044/y

- Death rate over 374 patientyears of follow-up was similar to general population:
 - 1.337 deaths per 100 person-years [5 deaths in 91 patients] and 0.854 deaths per 100 person-years, respectively

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Postexposure Doxycycline to Prevent Bacterial Sexually Transmitted Infections

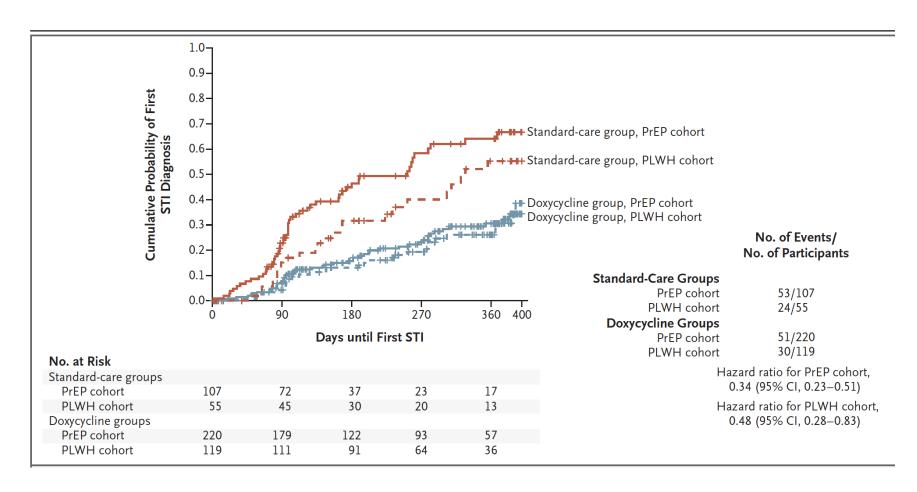
N Engl J Med 2023;388:1296-306. DOI: 10.1056/NEJMoa2211934

DOXY-PEP

DOXY-PEP Randomized Trial

- Assigned male at birth
- HIV and/or PrEP, protected sex with male in last 12 months, & gonorrhea, chlamydia, or early syphilis in last 12 months
- Randomized: Standard care or **200 mg doxycycline within 72 h** (ideally within 24 h) after unprotected anogenital, vaginal, or oral sex
- Quarterly blood tests for syphilis and PCR testing of pharynx, rectum & urine for gonorrhea and chlamydia with culture of gonorrhea positive specimens for susceptibility testing
- Primary efficacy endpoint: incidence of at least one STI per followup quarter

DOXY-PEP:Time to First STI Diagnosis



Of the participants with gonorrhea culture available, tetracycline-resistant gonorrhea occurred in 5 of 13 in the doxycycline groups and 2 of 16 in the standard-care groups.

DOXY-PEP - PrEP Cohort

A PrEP Cohort					
Analyses	Doxycycline	Standard Care	Relative Risk	(95% CI)	P Value
	no. of quarterly visits with event /total no. of visits (%)				
Primary analysis					< 0.001
Any STI	61/570 (10.7)	82/257 (31.9)	₩.	0.34 (0.24-0.46)	
Secondary analysis					
Any gonorrhea	52/570 (9.1)	52/257 (20.2)	⊢	0.45 (0.32-0.65)	
Urethral	5/570 (0.9)	12/257 (4.7)	→	0.19 (0.06–0.55)	
Pharyngeal	38/570 (6.7)	34/257 (13.2)	⊢	0.50 (0.32-0.78)	
Rectal	25/570 (4.4)	29/257 (11.3)	⊢	0.40 (0.23-0.69)	
Any chlamydia	8/570 (1.4)	31/257 (12.1)	⊢	0.12 (0.05-0.25)	
Urethral	1/570 (0.2)	6/257 (2.3)		0.07 (0.01-0.59)	
Pharyngeal	2/570 (0.4)	4/257 (1.6)	i i	0.22 (0.04-1.14)	
Rectal	7/570 (1.2)	23/257 (8.9)	——	0.14 (0.06-0.32)	
Any early syphilis	2/570 (0.4)	7/257 (2.7)		0.13 (0.03-0.59)	





Guidelines for the Use of Doxycycline Post-Exposure Prophylaxis for Bacterial Sexually Transmitted Infection (STI) Prevention; Request for Comment and Informational Presentation

A Notice by the Centers for Disease Control and Prevention on 10/02/2023



https://www.federalregister.gov/documents/2023/10/02/2023-21725/guidelines-for-the-use-of-doxycycline-post-exposure-prophylaxis-for-bacterial-sexually-transmitted

Comments Close:11/16/2023

Doxycycline PEP, when offered, should be implemented in the context of a comprehensive sexual health approach including risk reduction counseling, STI screening and treatment, recommended vaccination, and linkage to HIV pre-exposure prophylaxis (PrEP), HIV care, or other services, as appropriate.



Program

Feb 2023

DOXYCYCLINE POSTEXPOSURE PROPHYLAXIS FOR PREVENTION OF STIS AMONG CISGENDER WOMEN

- 449 cisgender women in Kenya, median age 24 yrs; 36.7% reported transactional sex
- STI at enrollment in 17.9%: 14.1% C. trachomatis, 3.8% NI gonorrheae, 0.4% T. pallidum
- Randomized to DOXY-PEP or SOC
- 80% power to detect 50% incident STI
- Incident STI: RR 0.88, 95% CI 0.60-1.29; P =0.51



I'M SORRY BUT THERE ARE NOW 16,000 MEDICAL JOURNALS, AND I NO LONGER HAVE TIME TO SEE ANY PATIENTS."