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- >JAMA Dermatology June K. Robinson, MD, IF: 5
- >JAMA Facial Plastic Surgery John S. Rhee, MD, MPH, IF: 1.74
- **►JAMA Internal Medicine** Rita F. Redberg, MD, MSc, IF: 14
- **►JAMA Neurology** S. Andrew Johnson, MD, IF: 8.2
- ➤ JAMA Oncology Mary L. (Nora) Disis, MD (new)
- >JAMA Ophthalmology Neil Bressler, MD, IF: 4.3
- ► JAMA Otolaryngology Head & Neck Surgery Jay F. Piccirillo, MD, IF: 2.7
- **►JAMA Pediatrics** Frederick P. Rivara, MD, MPH, IF: 9.5
- ► JAMA Psychiatry Stephan Heckers, MD, IF: 14.4
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The JAMA Network发展

- ▶ **2012年2**月: AMA在线数据库更名为: The JAMA Network
- ➤ 2012年5月:新平台上线: jamanetwork.com
- ➤ **2013年3**月:APP上线: The JAMA Network Reader
- ➤ **2013年7**月:期刊改版: JAMA Network journals
- ▶ 2013年12月: CME部分增加离线访问功能
- ➤ **2015年2**月: JAMA Oncology创刊
- ▶ 2016年2月: JAMA Cardiology创刊



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出版内容:世界上发行范围最广的综合性医学杂志。主要刊载临床及实验研究论文,还包括编者述评、读者来信等文章,除主要关注临床医学外,还涉及卫生保健、政治、哲学、伦理、经济、历史等非临床信息。此外,期刊注重教育职能,设有CME栏目,向临床医师提供基础医学与临床医学方面的继续教育服务。





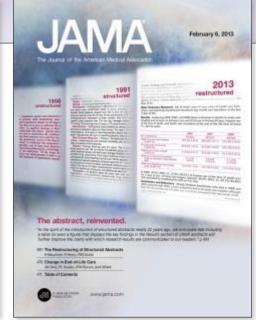
NAMES OF STREET





Theme issues highlighting critical topics in medicine









The JAMA Network: Content focused

1. Research

- Original Investigations
- Case Reports

2. Opinion

- Viewpoint
- Editorial
- Commentary

3. Clinical Review & Education

- Review Articles
- Continuing Medical Education
- Clinical Challenge
- Patient Information





1 Research

- Clinical trials
- Meta-analyses
- Epidemiological studies

Novel Genetic Mutations in a Sporadic Port-Wine S Orristine Guo Lian, MD; Lynette M. Sholl, MD; Labib R. Zaldka, MA, MD; Teresa M. O, MD; Cynthia Liu; Shuyun Xu, MD, PhD; Ewelina Stanek; Elizabeth Garcia, PhD; Yonghui Jia, PhD; Laura E. MacConaill, PhD; George F. Murphy, MD; Milton Wance: MD; Martin C. Mihrn Jr, MD Emergency Department Resource Use by Supervised Residents vs Attending Physicians Alone IMPORTANCE Port-wine stains (PWSs) are common congenital cutaneous capillary n R. Pitts, MD, MPH; Sofie R. Morgan, MD, MBA; Justin D, Schrager, MD, MPH; Todd J, Berger, MD malformations. A somatic GNAQ mutation was recently identified in patients with sporadic PWSs and Sturge-Weber syndrome. However, subsequent studies to confirm or extend this MPORTANCE Few studies have evaluated the common assumption that graduate medical OBSERVATIONS We report a long-standing, unilateral facial PWS of a man in his early 70s confirmed by histopathological analysis. Staged surgical excision of the vascular malformation was performed, and genomic DNA was extracted from the vascular malformation specimen OBJECTIVE To compare resources used in supervised vs attending-only visits in a nationally representative sample of patient visits to US emergency departments (EDs). and normal skin. Targeted next-generation sequencing of the coding sequence of 275 known cancer genes including GNAQ was performed in both specimens. A single-nucleotide variant DESIGN, SETTING, AND PARTICIPANTS Cross-sectional study of the National Hospital Ambulatory Medical Care Survey (2010), a probability sample of US EDs and ED visits. (c.548G>A, p.Arg183Gln) in GNAQ was identified in the PWS-affected tissue but not in the normal skin sample. In addition, this sequencing approach uncovered several additional novel **EXPOSURES** Supervised visits, defined as visits involving both resident and attending physicians. Three ED teaching types were defined by the proportion of sampled visits that somatic mutations in the genes SMARCA4, EPHA3, MYB, PDGFR-B, and PIK3CA. were supervised visits: nonteaching ED, minor teaching ED (half or fewer supervised visits), and major teaching ED (more than half supervised visits). CONCLUSIONS AND RELEVANCE Our findings confirm the presence of somatic mutations in GNAQ in the affected skin of a patient with congenital PWS, as well as alterations in several other novel genes of possible importance in the pathogenesis of PWS that may also offer MAIN OUTCOMES AND MEASURES Association of supervised visits with hospital admission. advanced imaging (computed tomography, ultrasound, or magnetic resonance imaging), any blood test, and ED length of stay, adjusted for visit acuity, demographic characteristics, payer substantial therapeutic targets type, and geographic region. IAMA Dermotol. 2014;150(12):1336-1340. doi:10.1001/jamadermatol.2014.1244 Published online September 3, 2014. DESILITS Of 20 182 ED visits to the 226 poppediatric EDs in the sample 2274 visits were supervised visits. Compared with the 25 808 attending-only visits, supervised visits were significantly associated with more frequent hospital admission (21% vs 14%; adjusted odds ratio [anR], 1-42, 95% Cl, 1.09-1.85), advanced imaging (28% vs 21%; aoR, 1.12, 1.27; 95% Cl, 1.06-1.51), and a longer median ED stay (25 vs 153 minutes; adjusted geometric mean ratio 1.32; 95% Cl, 1.19-1.45), but not with blood testing (53% vs 45%; aoR, 1.18; 95% Cl, 1.19-1.45). ort-wine stains (PWSs), or capillary malformation, are patches, coalescent plaques, and no a common type of cutaneous vascular malformation with a prevalence of 0.3% to 0.5%. 1.2 Clinically, PWS his face (Figure 1). There was marke lateral lower lip, right cheek, righ O.SG-1.4G). Of visits to the sample of 121 minor teaching EDs, a weighted estimate of 9% were supervised visits, compared with 82% of visits to the 9.4 major teaching EDs. Supervised visits in major teaching EDs compared with attending-only visits were not associated with hospital admission (aOR, 11; 9.5% c. I., 0.831-1.58), advanced imaging IOSR, 121; 95% C. I. often involves the head and neck as an isolated pink flat lesion that becomes darker and may thicken over time. Port-(Floure 1). The leston also extended to terior neck. A clinical diagnosis of PV wine stains may be part of a syndrome, including Sturge-Weber syndrome among others. A long-standing hypothesis that PWSs are associated with an underlying somatic muta-Weber syndrome was ruled out by ap previously received laser and surgi 0.96-1.53), or any blood test (aOR, 1.02; 95% CI, 0.79-1.33), but had longer ED stays (adjusted cently a staged surgical excision of th ean ratio, 1.32; 95% CI, 1.14-1.53). tion was supported in a recent study. Twelve of 13 patients with nonsyndromic PWSs showed a mutation in a singlepertrophy over a 6-month period, du biopsy of the previously untreated au CONCLUSIONS AND RELEVANCE in a sample of US EDs. supervised visits were associated with a greater likelihood of hospital admission and use of advanced imaging and with longer ED stays. Whether these associations are different in EDs in which more than half of visits are seen by residents requires further investigation. nucleotide variant (c.548G>A, p.Arg183Gln) in the GNAQ gene diameter sample of normal skin are

Letters

Non-English-Language Proficiency of Applicants to US Residency Programs

More than 25 million US residents have limited English prociency, an 80% increase from 1990 to 2010.1 Limited Engish proficiency (LEP) may impede participation in the English-language-dominant health care system.2 Little is nown about the non-English-language skills of physicians

in training. This study characterizes the language diversity of all US residency applicants through the Electronic Residency Application Service and contrasts applicant language skills with the predominant languages of the US population

Methods | Applicants were asked to self-report proficiency in all languages spoken using the Interagency Language Roundtable scale adapted for physicians for the first time in 2013.3

by percentage speaking English only (low to high).

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Table. 2013 Residency Applicants by Ethnic Self-Identity and Citizenship/Immigration Status

)		Total (N = 52 892)	Applicants,	Languages Spoken, %ª			At Least Advanced	
				English Only	2	>2	Proficiency of NEL, %	
	Ethnic Self-Identity ^b							
	Latino	2800	5.3	1.4	73.6	25.0	91.4	
5	Peruvian	166	0.3	0	63.3	36.8	98.2	
ja	Dominican	178	0.3	0	72.5	27.5	98.3	
	Colombian	279	0.5	0.4	74.6	25.1	96.0	
	Puerto Rican	594	1.1	1.2	85.4	13.5	96.4	
	Other Hispanic, Latin	743	1.4	1.2	59.6	39.2	94.4	
	Cuban	232	0.4	1.3	86.6	12.1	90.4	
	Mexican, Mexican American	608	1.1	3.1	77.1	19.7	76.7	
	Asian							
	South Asian	10 430	19.7	2.1	14.0	84.0	82.6	
	Bangladeshi	308	0.6	0.3	22.4	77.3	89.3	
	Pakistani	1842	3.5	0.8	14.9	84.3	90.4	
	Indian	8280	15.6	2.4	13.5	84.1	80.5	
he	Other	5548	10.5	4.3	48.1	47.6	68.9	
de	Vietnamese	596	1.1	2.7	51.7	45.6	64.7	
Te	Talwanese	404	0.8	2.7	41.6	55.7	59.8	
m	Chinese	1812	3.4	2.9	56.7	40.4	69.0	Abbreviation: NEL, non-English language.
stra stra	Other Asian	1088	2.1	3.6	35.2	61.2	82.1	* Percentages may not equal 100%
L	Korean	816	1.5	6.3	43.6	50.1	60.3	due to rounding.
_	Filipino	668	1.3	7.5	49.9	42.7	64.4	^b Self-identity categories with at least
	Japanese	164	0.3	11.0	58.5	30.5	78.8	100 responses are shown; only the
o	Black/African American	3376	6.4	27.7	47.9	24.4	56.1	top 68% (23/34) of self-identity categories are listed. Obtained via
ce	Other black or African	143	0.3	16.1	39.2	44.8	65.0	self-report from predetermined
to	African	1372	2.6	19.7	54.5	25.8	78.6	categories on the application and was included to comment on
w	Afro-Caribbean	518	1.0	24.1	33.2	42.7	54.7	was included to comment on different language abilities among
P	African American	1343	2.5	38.5	47.7	13.9	25.9	different ethnic groups. The
th	White	21 077	39.8	27.9	50.9	21.3	31.3	application asked participants "How
iu	Other	1722	3.3	8.3	44.8	47.0	74.9	do you self-identify? Please select a that apply." Subgroup rows ordered
ıu	No identity response ^c	8029	15.2	10.2	41.6	48.3	61.0	by percentage speaking English onl
ea	Citizenship/immigration Status							(low to high).
	Non-US citizens	15 219	28.7	3.6	32.9	63.5	93.0	^c Applicants who were citizens of a
a	Legal allend	7227	13.6	3.0	28.3	68.7	93.4	European country were instructed to select "Prefer not to say."
WE	US permanent resident	5126	9.7	3.3	38.7	58.0	94.8	d Refers to an individual who entered
H	Non-US-based applicant	2866	5.4	5.6	34.0	60.4	88.7	the United States legally (eg.
pe	US citizen	37 763	71.3	20.4	46.7	32.9	42.2	entered the United States on a

Compared with the normal skin sar study of the auricular nodule showe

dilatation of paptllary dermal captll ules, and small veins in the sup (Figure 2A). The abnormal vascular ferent sizes and shapes throughou (Figure 2A). The superficial abnorm walls (Figure 2A), in contrast to the th

aspects of large vessels (Figure 2B). Those larger ectatic struc tures had thickened walls with multiple duplications of the basement membrane zones and entrapment of pericyte-like cells in the thickened areas (Figure 2B). The endothelial cells

/AMA. 2014;312(22)-2394-2400. doi:10.1001/jama.2014.16172

In this report on a patient with a long-standing PWS or Affiliations In this report on a patient with a roug-standing rive gency Medium lession, we document the presence of a GNAQ C.548G-A muta-eraty school of ton. Importantly, several novel mutations in the SMARCA4,

offeeding 202200 tion. Importantly, several novel mutations in the SMARCA4, SCringel, Integer EPHAS, NYE, PDGFR®, An OFFECA genes were also identi-Structin infirmay fied, extending the scope of mutational anomalies in this turke nock, Arkam, condition. Texas Southwester.

AsburyCircle, Anne nantily unilateral congenital facial vascular lesion. Physical ex-tainta, GA 30322 (miles life - miles life - miles - miles life - miles lif

edicin nool of A healthy man in his early 70s presented with a predomi-

amination revealed painless, dark red to violaceous macules.

Corresponding Aut Pitts, MD, MPH, De; Report of a Case



2 Opinion

Viewpoints

Dueling Viewpoints

Editorial

Commentary

Invited commentary

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use among adolescents.

Substance Misuse Among Adolescents To Screen or Not to Screen?

Geetha A. Subramaniam, MD. DFAPA; Nora D. Volkow, MD

Alcohol, tobacco, and marijuana are the top 3 substances of misuse among teenagers. According to the Monitoring the Future study, 'marijuana use continues to increase in contrast to tobacco or alcohol use, which has leveled off; currently, more

than one-third of 12th graders report having used marijuana in the past year, and 6.5% report using it

regularly. Emerging evidence suggests that the adolescent brain is highly vulnerable to exposure to alcohol or cannabis consumption, resulting in proximal and distal impairments in neurocognitive functioning (including memory and intelligence), sensitivity to reward, and emotional regulation. Moreover, deaths in adolescents are largely preventable because most are a result of substance-related motor vehicle accidents and overdose or unintentional poisoning. Substance use disorders (SUDs), especially those that begin during adolescence, have a high likelihood of persisting into adulthood, with associated negative medical, personal, and professional consequences. Pediatric care physicians are well positioned to prevent initiation or curb the progression of substance mis-

The available screening tools to detect substance misuse in pediatric settings have several limitations. In response, the

l Institute on Drug Abuse provided a funding oppornnouncement2 to validate a quick and combined (ie. , alcohol, marijuana, and other commonly abused subscreening and brief assessment tool for universal adtion to adolescents (age range, 12-17 years) in pediatigs. Among other criteria, the National Institute on Drug equired that the quick tool triage responses lead the in to clinically actionable problem categories; be suitself-administration by the teen and administration by ns or staff; be delivered on an electronic platform, such ad; factor in workflow considerations at medical setnd made available in the public domain.

his issue, Levy and colleagues2 present the results of 1 validation projects that were funded. The quick tool by the authors was composed of the past-year frecreen questions from the National Institute on Drug uick Screen (for tobacco, alcohol, marijuana, and sever drug use categories), followed by an Alcohol Use Disdentification Test for adolescents with positive alcoen results, or the RAFFT questions (ie, CRAFFT without question) for adolescents with positive marijuana and bstance screen results. The psychometric properties creen and brief assessment were excellent for self-

administration and interviewer administration, and it took less than 1 minute to complete. The authors serendipitously found that asking the frequency of use screen questions alone was sufficient to identify the 3 types of Diagnostic and Statistical Manual of Mental Disorders (Fifth Edition) (DSM-5) SUD diagnostic categories, further simplifying the process. Of course, these findings need to be replicated in larger samples to allow

validation of these and other common substance scription stimulants and prescription opioids, mine whether the teens' responses to the screen if they were told that they will be shared with th diatric physician.

Strategies to disseminate the use of this vali ing tool would need to overcome barriers to pe screening in pediatric primary care settings. barriers4 are the lack of knowledge on how to se stances of abuse, the lack of training in or famili management of adolescents with substance use a the burden on pediatric physicians to treat these p the time constraints of busy practices.

Perhaps an even bigger barrier to widespre the lack of an evidence base to clinically guide physician when substance misuse is uncovered cent. How and when does he/she intervene? To cal trials have reported the efficacy of brief (or terventions for alcohol, cannabis, or other medication misuse in pediatric settings. As a resu ventive Services Task Force5 has issued an "I cient) recommendation for screening and interve lescents with illicit drug use, alcohol misuse, pharmaceutical use. According to their defin cient means that the existing evidence is either poor quality, thereby precluding them from ma mendation for or against screening and/or interv cohol or substance abuse in pediatric settings course of adolescents with mild to moderate pro ries remains unknown, further confounding the tervene. The use of substances without meetir for an SUD is potentially dangerous, as seen drugged driving scenarios, limiting the utility of nostic categories. Psychiatric disorders, such deficit/hyperactivity disorder and depressive pear to frequently predate the onset of SUDs in representing a shared vulnerability, a risk factor, ever, the field lacks strategies to evaluate the se stance misuse in the context of co-occurring chronic medical problems or other known risk

Global Tuberculosis Perspectives, Prospects, and Priorities

Thomas R. Frieden, MD, MPH Centers for Disease Control and Prevention, Atlanta, Georgia.

> Karen F. Brudney, MD New York New York

MD, FRCP International Union Against Tuberculosis and Lung Disease, Paris, France; and London School of Hyglene and Tropical Medicine, London, United Kingdom

mains a major public health problem, representing the second leading cause of death from infectious diseases globally, with drug-resistant tuberculosis increasingly common. In 2012, an estimated 8.6 million people developed tuberculosis worldwide-a global incidence rate of 122 persons per 100 000 population-and 1.3 million people died. Incidence rates vary from high in southern Africa (550/100 000 population in Mozambique and Zimbabwe and 1000/100 000 population in South Africa) to fewer than 10/100 000 population in the United States, Canada, and most of Western Europe.¹ Although the global prevalence of multidrug-resistant tuberculosis was estimated at 3.6% of newly diagnosed

and 20.2% of previously treated patients, these rates

to 69% for retreatment cases in the Russian Federa-

tion and some other former Soviet republics. In sub-Saharan Africa, the tuberculosis epidemic is driven by HIV through both increased reactivation of latent tuberculosis infection and the increased risk of rapid development of disease soon after exposure to Mycobacterium tuberculosis because of HIV-induced immunodeficiency. There is lower tuberculosis incidence in Asia, but because Asia's population is so much larger than Africa's—more than 4 billion compared with about a mains problematic, and responsibility for promptly finding billion-75% of the 5 million tuberculosis cases in the 22 highest-burden countries are in Asia. In these countries, crowding, poverty, and inadequate tuberculosis treatment completion rates contribute to the epidemic 2

Despite these statistics, marked progress has occurred since the World Health Organization (WHO) declared tuberculosis a global emergency 20 years ago. In 1995, fewer than 2 million patients were successfully treated using the WHO's Directly Observed Treatment, short course (DOTS) strategy, less than a quarter of the estimated total; by 2011, nearly 5 million patients were treated successfully with DOTS. Approximately 56 million natients have been treated successfully since 1995 preventing an estimated 22 million deaths. However, every year about 3 million people with tuberculosis are sed by health systems. Mortality rates are declining, albeit slowly, in all regions of the world. Since 1990, the death rate associated with tuberculosis has decreased 45%, from 25 persons to 14/100 000 population, although rates vary widely between countries.

The greatest risk to tuberculosis control is lack of implementation of effective and currently available strateeries and tools. Tuberculosis control rests on 3 fundamental principles: prompt and accurate diagnosis, effective treatment begun immediately upon diagnosis and monitored until completion, and interruption of

Despite being nearly 100% curable, tuberculosis re-

Microbiological examination of sputum smears for acid fast bacilli, despite limitations, remains the mainstay of diagnosis. Newer diagnostics provide greater sensitiv ity, particularly among children and persons with HIV infection (whose soutum smears are often negative), and can also identify rifampin resistance. These newer tests can enhance, but not yet replace, smear microscopy because of expense and requirements for suitable infrastructure, including stable electricity supplies. Early and accurate identification of tuberculosis can result in ear lier treatment and decrease transmission, but only if treatment is promptly initiated.3

Rapid and Complete Treatment

were 20% to 35% for newly diagnosed cases and 50%. All patients diagnosed with tuberculosis should receive prompt, complete, and effective treatment. In practice, owever, as many as 10% to 30% of patients with labo ratory-detected smear-positive sputum do not start treatment. 4 the result of disconnects between laborato ries, treating facilities, and patients. Turnaround time between identification of a positive specimen, whether by smear microscopy or molecular diagnostics, and treatment initiation should not be longer than 24 hours. Communication between diagnosing and treating facilities repatients once there is a positive result remains nebulous in many programs.5

Monitoring and evaluation of the diagnosis and treatment cascade within every facility should be routine and performed quarterly, but in practice it is rare for a treating facility to know what percentage of patients diagnosed actually began treatment at the facility to which they were referred, or have information about outcomes of these diagnosed patients, such as cured, died, lost to follow-up, or remaining smear- or culture-positive.

Effective, regular, and structured supervision of tu berculosis diagnostic and treatment facilities and their patients, combined with program management and evaluation, is essential to tuberculosis control. Supervision helps determine why patients do not seek care and how attendance might be improved and teaches staff how to perform essential tasks and keep accurate records. Cohort analysis, performed quarterly and answer ing 2 simple questions: how many patients were diagnosed with tuberculosis and what happened to them is the hallmark of effective tuberculosis control and a model of accountability for treatment of any chronic illness.

Supportive supervision-helping health workers im prove their performance-requires staff trained in spe cific skills, with central or provincial staff supervising dis trict officers who in turn supervise frontline health staff. Regular, structured field visits to treatment clinics en-

Public Health in the Age of Ebola in West Africa

The world is witnessing the unprecedented unfolding of the West African Ebola epidemic. The epidemic could have major ramifications for global public health in ways that no other modern infectious disease has, some of the control o

an event with the following three attributes. First, it is an outlier, as it lies outside the realm of regular expecta-tions, because nothing in the past can convincingly point to its possibility. Second, it carries an extreme "impact. Third, in spite of its outlier status, human nature make

is concord explanations for its occurrence after the fort, making it explainable and predictable.

The West African Ebol epidemic has all the makings of a Black Sown event with one exception—the image of a Black Sown event with one exception—the contain it for months, or years, to come. As of October 2014, there is no evidence that this devastating epidemic is anywhere near under control. If the number 2014, the proposed in the containing epidemic is anywhere near under control. If the number of the proposed in the control is anywhere the proposed in the control is anywhere the proposed in the control is anywhere the control in the proposed in the control and Prevention (1.4 million cases in Liberia and Sterra Leone by the middle of January 2015 if is a control in the proposed in the control in and sterra Leone by the middle of January 2015 if there are no or unsuccessful interventions)³ material-ize in West Africa over the next several months, it is difficult to imagine that the virus will not make its way difficult to imagine that the virus will not make its way that of the African countries, particularly densely populated crities such as Dakar, Seneggi, Akadjan, norw that the African Countries, particularly densely populated crities such as Dakar, Seneggi, Akadjan, norw of the Congo, or Rainoth, Seneya, Newly selected, but not ill or only mildly till, persons could leave the affected countries by foot, automobiles, trans, and liens of Africans living in crowded, squalid conditions of powerty in the large alums of major urban centers, circumstances are ripe for an even larger Ebola epidemic of the action of the

Ebola from spiraling out of control, and that guaran tine efforts are more likely to backfire than to curtail and their potential effects on international and regional security, economic stability, and overarching public health governance.

Research and Response
There is more clear evidence that an infectious disease
such as Eboda wins disease can threaten the stability
social fabric. Although other infectious diseases,
including AIDS, malaria, tuberculosis, childhood diseases that are preventable by vaccine, and darkel
seases that are preventable by vaccine, and darkel
uses the stable of the stable of the stable
to darkel, those diseases have
varis disease has billed to dark, those diseases have not destabilized the region. This is another painful lesson that what kills us may be very different from what frightens us or substantially affects our socia

in global health should keep this point in mind as they allocate limited public health resources to prepare for infrequent, but nonetheless predictable, disease out infrequent, but nonetheless predictable, disease out-breaks, epidemics, or pandemics caused by a wide breaks, epidemics, or pandemics caused by a wide influenca virus, an intentional release of a known or chimeric botterorism agent, or a new emerging resp-ratory pathogen such as the coronavirus that causes Middle Eastern respiratory syndrome. Before Septem-have considered it good public policy to allocate limited resources toward developing an effective vaccine against Ebola virus disease—at least with the same for human summer deficiency virus, tuberculosis, for human summodeficiency virus, tuberculosis, for human immunodeficiency virus, tuberculosis malaria, or diarrheal diseases. Developing vaccines fo these other diseases remains critically important. But the Ebola epidemic in West Africa has deepened the realization that the historical morbidity and mortality realization that the historical morbidity and mortality of an infectious disease does not necessarily predict what ringit happen in the future. An essential characteristic model in the future of the arios and in planning ac ents and other organizations that fund global publi

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health efforts should be willing to support this type of forward thinking, which ultimately is aimed at secur-ing our collective future.

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3 Clinical Review & Education

- Review articles
- New article types aimed at busy clinicians
- **Guide Methods**
- Clinical Challenge
- **Patient Page**

JAMA Clinical Challenge

A 38-Year-Old Man With Extensor Surface Papules

Eric Meinychak, DO, EMT-B; Alexis Weymann Perlmutter, MD, MEd; Eric Hossler, MD





Figure 1. Left, Erythematous pink and yellow papules on the wrists. Right, Close-up of the papules.

A 38-year-old morbidly obese man presents with a 1-month history of rash on the extensor surfaces of his hands, forearms, elbows, shoulders, flanks, and upper thighs. The rash is nonpruritic but is associated with burning pain. The patient has had no fevers, shortness of breath, recent viral syn-

dromes, or recent travel. He has a history of pancreatitis several years prior, recent repair of a tibial fracture, ankle osteoarthritis, cholelithiasis, seizure disorder, and bipolar disorder. He has a family history of type 2 diabetes in his father and brother. His current medications include phenobarbital, levetiracetam, quetiapine, lorazepam, fluoxetine, tramadol, aspirin, celecoxib, and gabapentin, none of which were started in the past few months. Skin examination reveals hundreds of bright pink papules with central yellow hue distributed symmetrically over his dorsal hands, elbows, shoulders, and thighs (Figure 1). The remainder of the examination is unremarkable.

WHAT WOULD YOU DO NEXT?

- A. Obtain a lipid panel
- B. Order a chest radiograph
- C. Treat empirically with oral prednisone
- D. Unroof one of the papules and send for viral culture

Clinical Review & Education

Traveler's Diarrhea A Clinical Review

Robert Steffen, MD; David R. Hill, MD, DTM&H; Herbert L. DuPont, MD

IMPORTANCE Acute diarrhea is the most common illness that affects t regions of the world. Although improved hygiene has reduced the risk many destinations, the risk remains high in others.

OBJECTIVE To review the current state of knowledge on the etiology. and management of traveler's diarrhea.

for the period 2012-April 2014 was performed for articles on traveler's search yielded 2976 articles, of which 37 were included in this review 85 articles previously identified by the authors.

FINDINGS Improved hygiene has reduced the risk of traveler's diarrhe.

e (for a 2-week stay) to between 8% and 20% in some parts of er's diarrhea causes 12% to 46% of travelers to change their trav ers seeking medical care have a diagnosis of gastrointestinal dist ximately one-third of all cases. Postinfectious irritable bowel syr in 3% to 17% of patients who have had traveler's diarrhea. Previ a by dietary avoidance measures is often not successful. Chem be restricted to travelers who are at risk of severe complication wacin is the standard treatment in self-therapy of traveler's dia when patients are in South or Southeast Asia, where azithrom

SIONS AND RELEVANCE Diarrhea remains a common problem rs. Persons intending to travel to at-risk countries should be co ntion measures and may be given a travel pack that includes me itment should they become ill.

5.313(1):71-80. doi:10.1001/jama.2014.17006

espite the description of the syndrome of traveler's diarnea more than 50 years ago by B. H. Kean, the discovery of enterotoxigenic Escherichia coli (ETEC) as a ogy a decade later,2 and effective treatment soon 3 the incidence of traveler's diarrhea during a 2-week ns 10% to 40%, depending on destination and traveler istics. In addition, the GeoSentinel database, a global of clinics sharing data about travel-related morbidity, ted that acute and chronic diarrhea accounted for 335 of D medical visits by returned travelers.4 Reduction in nce of traveler's diarrhea is more closely related to of sanitation at the destination rather than specific ons implemented by the traveler.5 Therefore, travelers e prepared to manage illness that may occur during their

JAMA PATENT PAGE | Infectious Discourse

Traveler's Diarrhea

Traveler's diarrhea is the most common illness among persons visiting lower-income countries.

What Is Traveler's Diarrhea?

Traveler's diarrhea is an illness mostly caused by bacteria in food or water. If you have traveler's diarrhea, your main symptom will be loose stools. Stomach cramps and nauses are also common. You also might have vomiting or fever

If you are a healthy adult, traveler's diarrhea will probably not EVIDENCE REVIEW A search of the PubMed, Google Scholar, and Coch be serious. But you might have to change your travel plans until you recover. Without treatment, most people recover within 4 days.

How Can I Avoid Traveler's Diarrhea?

To avoid getting traveler's diarrhea, you should

· Wash your hands often. This is especially important after you use the bathroom or before you eat. Use lots of soap and water. · Be careful what you eat or drink.

- + Try to choose restaurants that are busy and dean. Try to avoid buffets. Food should be recently cooked and served very hot.
- · Avoid raw fruits and vegetables. (But these might be safe if they are peeled or washed in clean water.)
- · Avoid undercooked meats, fish, and seafood.
- . Avoid tap water and ice. (Ice might have been made with unclean water.)
- . Choose beverages in factory-sealed containers. Bottled water is a good example. Beverages made using boiling water are also safe. Tea is a good example.

How Can I Treat My Traveler's Diarrhea?

If you develop traveler's clambea, you should drink lots of fluids. This is especially important for young children. It is also especially important if you are older or have a chronic illness.

Make sure the fluids are safe (see above). Tea with some sugar is a good choice. Soup is another good choice. If you are dizzy, eat safted crackers. In serious cases, you can drink a solution made from a powder you can buy in drugstores worldwide. These solutions can help prevent dehydration. They are also helpful in children or in adults with medical conditions.

You might also consider packing an antibiotic. The choice of antibiotic will depend on where you are going. You should ask your doctor or travel clinic for help choosing.

Ways to avoid traveler's diarrhea



Drugs are available that can stop clarrhea for a short time (for example, loperamide). Because these drugs stop diarrhea, you can board a bus or plane until an antibiotic starts working.

What If I Still Have Traveler's Diarrhea After I Get Home?

You should see your doctor or travel dinic if you still have traveler's diarrhea for more than 72 hours after you get home. This is especially important if you are seriously ill or if you have a fever or blood in your stool.

FOR MORE INFORMATION

Drink beverages made with boils

or from factory-sealed contains

- Centers for Disease Control and Prevention www.c.cdc.gov/travel/page/travelers-diarrhea

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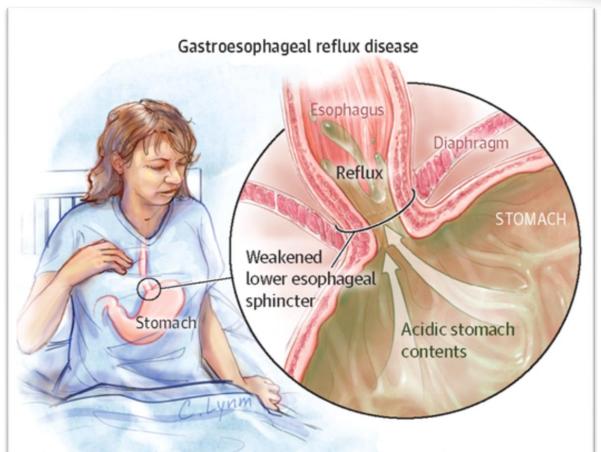
Source: Conters for Disease Control and Prevention

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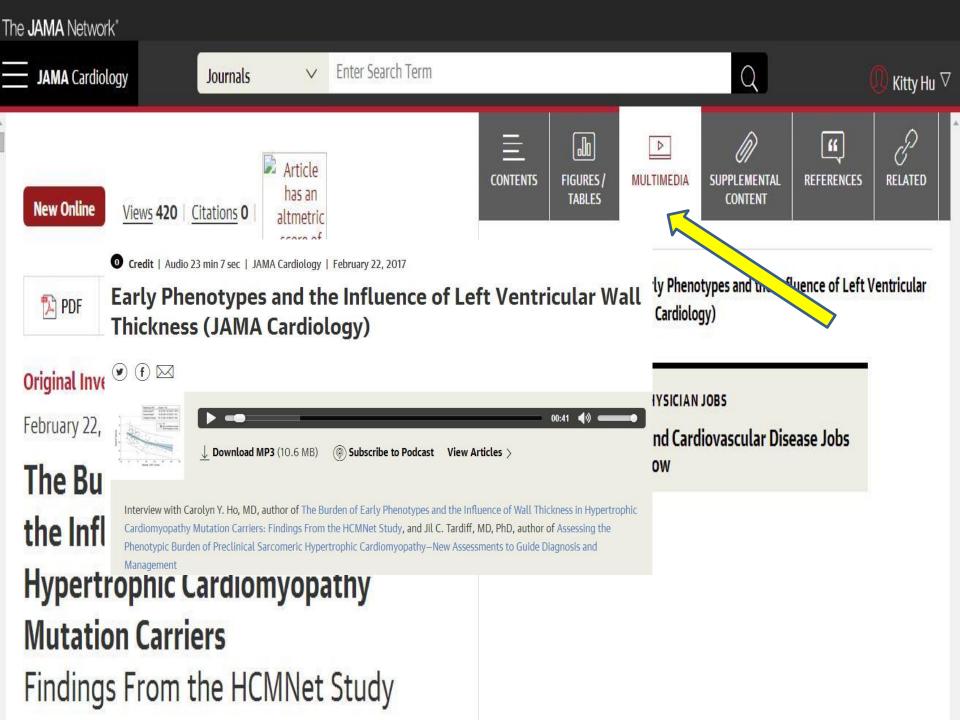
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Reflux occurs when your esophageal sphincter does not close properly. This allows food or acid reflux to wash back up into your esophagus, causing irritation. Treatments include over-the-counter and prescription antacid medications, diet and lifestyle changes, and surgery.



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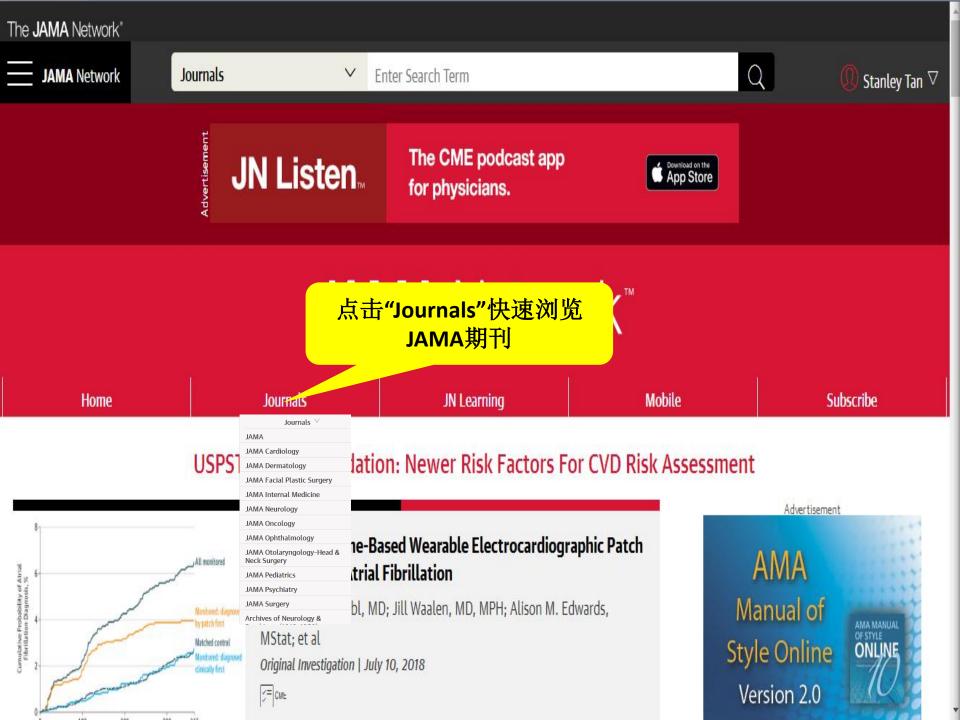
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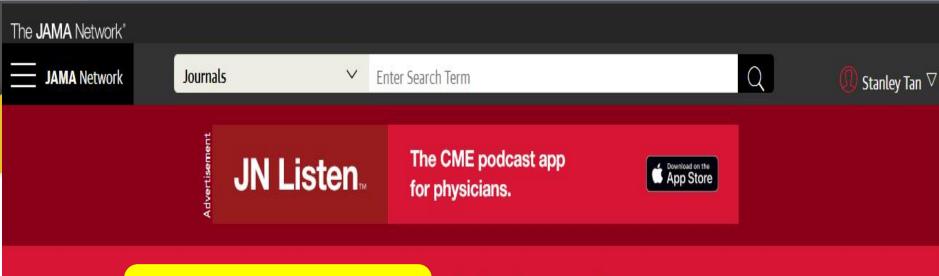
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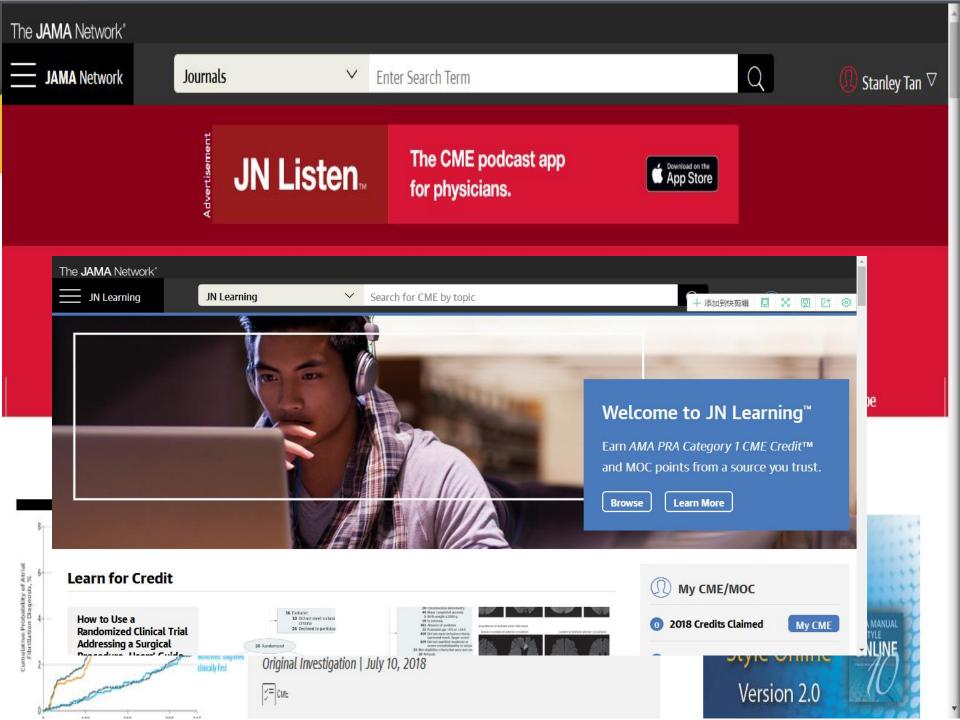
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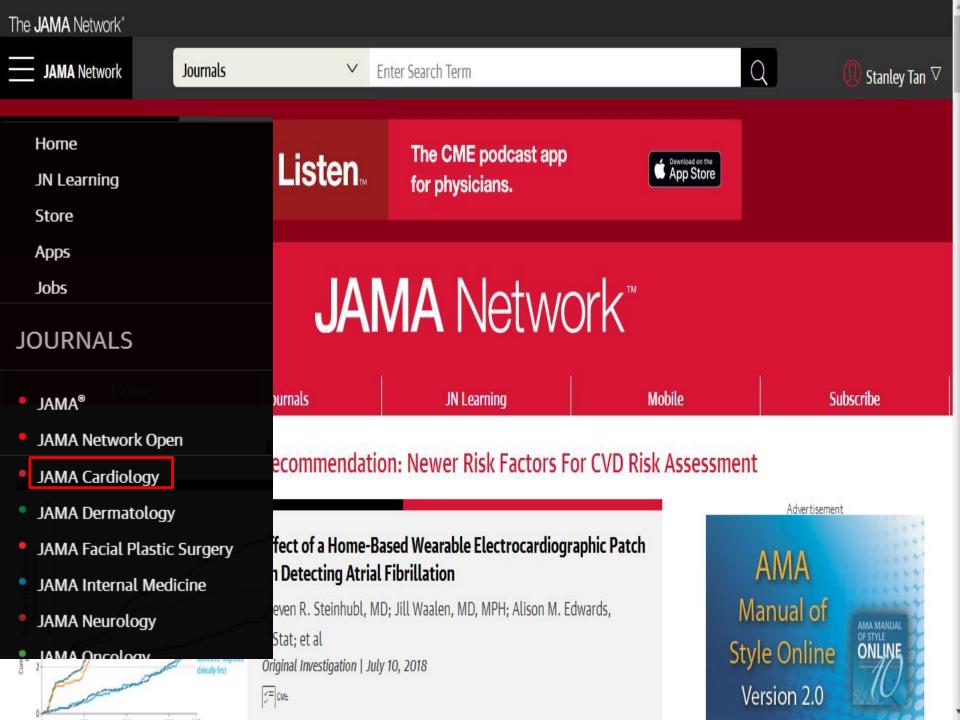


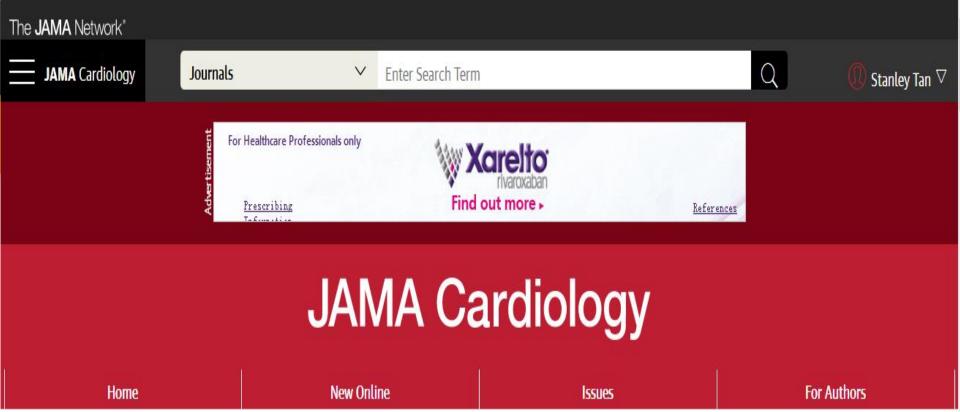
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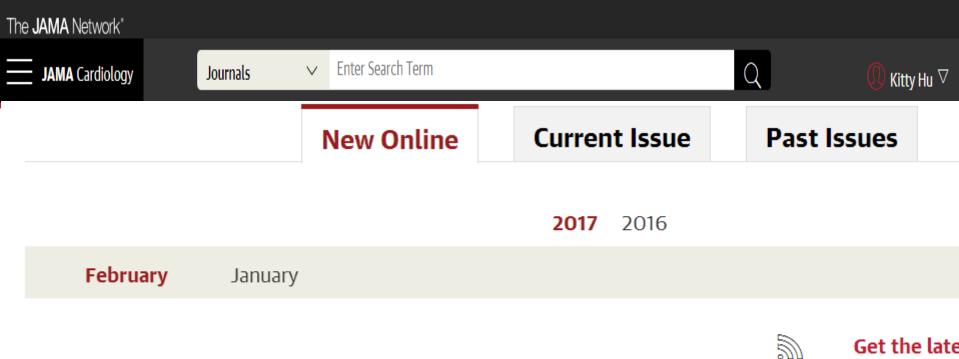


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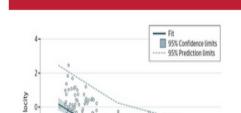
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Feb Research

Life Expectancy in Patients With Type 1 Diabetes

istorically, type 1 diabetes mellitus has been associated with large reductions in life expectancy.
Livingstone and colleagues assessed life expectancy in a contemporary cohort of 24 691 Scottish
patients with type 1 diabetes and found that compared with the general population, subsequent life
expectancy at age 20 years for patients with diabetes was approximately 11 years less for men and 13 years
less for women. In an Editorial, Katz and Laffel discuss prevention of diabetes complications to improve patient survival.



f the

Editorial and Related Article

Intensive Treatment of Diabetes and Long-term Mortality

In an observational follow-up of participants in the Diabetes Control and Complications Trial, which involved random assignment to intensive treatment (n=711) or conventional treatment (n=730) for a mean 6.5 years and intensive treatment for all participants recommended thereafter, Orchard and colleagues found that mortality risk was modestly lower among individuals in the initial intensive therapy group after a mean 27 years' follow-up.



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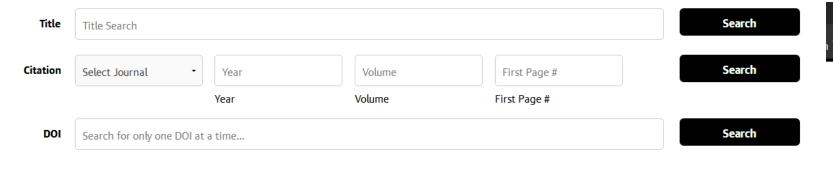


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