Research

Dose, Adjuvant, and Immune Response to H7N9 Influenza Vaccine

In a phase 2 trial that enrolled 980 US adults, Jackson and colleagues assessed immunogenicity and safety of an inactivated avian influenza A H7N9 vaccine in varying doses and with and without AS03 and MF59 adjuvant. Among the authors’ findings was that the AS03 and MF59 adjuvants augmented the immune response to 2 doses of the vaccine, with vaccine formulations with AS03 adjuvant formulations inducing the highest antibody titers.

Bystander Intervention, Neurological Status After Cardiac Arrest

To examine the association between prehospital interventions by bystanders—chest compressions and use of a public-access automated external defibrillator—and neurologically intact survival after out-of-hospital cardiac arrest, Nakahara and colleagues analyzed registry data from 167,912 patients who experienced a bystander-witnessed out-of-hospital cardiac arrest in Japan in 2005-2012. The authors report that during the years of study, rates of bystander chest compression and bystander defibrillation increased and were associated with an increased likelihood of neurologically intact survival after out-of-hospital cardiac arrest. In an Editorial, Nichol and Kim discuss strategies to improve patient survival after out-of-hospital cardiac arrest.

Survival After First-Responder CPR Intervention

In an analysis of registry data from 4,961 North Carolina patients who experienced an out-of-hospital cardiac arrest in 2010-2013—a time frame that included statewide efforts to improve bystander and first-responder resuscitation interventions—Malta Hansen and colleagues found that the proportion of patients who received bystander-initiated cardiopulmonary resuscitation (CPR) and defibrillation by first responders increased and was associated with a greater likelihood of survival. Bystander-initiated CPR was associated with a greater likelihood of survival with favorable neurological outcome.

Opinion

Viewpoint

How the New Neuroscience Will Advance Medicine
CI Bargmann

Strategies to Improve Survival From Cardiac Arrest: A Report From the Institute of Medicine
LB Becker and Coauthors

Competition in the Age of Biosimilars
A Chandra and J Vanderpuye-Orgle

JS Crowley and Coauthors

A Piece of My Mind

Learning to Breathe
E Levin

Editorial

Bystander Interventions Can Improve Outcomes From Out-of-Hospital Cardiac Arrest
G Nichol and F Kim

The Safety of Prescription Drugs
JM Sharfstein and AS Kesselheim

Evaluating Research on the Safety of Medical Therapies: The Responsibility of Journals to the Health of the Public
PB Fontanarosa and Coauthors

LETTERS

Research Letter
Change in International Normalized Ratio Among Patients Treated With Dicloxacillin and Vitamin K Antagonists
A Pottegård and Coauthors

Comment & Response
Single-Gene Genotyping and Personalized Preventive Care

Exemptions to Vaccination for Children

Humanities

The Art of JAMA


Poetry and Medicine

Thoracic Park

JAMA Revisited

New Opportunities in Health Broadcasting

NEXT WEEK

Theme Issue on Medicare and Medicaid at 50
In This Issue of JAMA

Research (continued)

Pioglitazone and Risk of Bladder and Other Cancers

Some studies suggest that pioglitazone use may increase risk of cancer. In analyses of data from 2 prospective cohorts of patients with diabetes—193,099 in a bladder cancer cohort and 236,507 in a study of 10 additional cancers—and a case-control study (464 cases and 464 matched controls), Lewis and colleagues found no statistically significant association between pioglitazone use and bladder cancer. Increased risks of prostate and pancreatic cancers associated with pioglitazone use merit further investigation. In an Editorial, Sharfstein and Kesselheim discuss the safety of prescription drugs. An Editorial by Fontanarosa and colleagues discusses journal policies regarding research on the safety of medical therapies and responsibilities of journals to the health of the public.

Clinical Review & Education

Treatment of Atrial Fibrillation

Prystowsky and colleagues report results of a comprehensive search and systematic review of the current literature relating to the treatment of atrial fibrillation (5044 references identified, with an emphasis on the last 5 years). The authors discuss mechanisms of atrial fibrillation, prevention and modification of inciting causes, rate and rhythm control strategies, and appropriate anticoagulation therapy.

Care Bundles and Prevention of Surgical Site Infection

An article in JAMA Surgery reported that implementation of a multidisciplinary surgical site infection (SSI) prevention care bundle was associated with a substantial reduction in superficial SSIs after colorectal surgery. In this From the JAMA Network article, Itani discusses efforts to reduce SSIs.

Anticoagulation in Patients With Atrial Fibrillation

This JAMA Clinical Guidelines Synopsis by Moss and Cifu summarizes the 2014 AHA/ACC/HRS Guideline for the Management of Patients With Atrial Fibrillation (Section on Prevention of Thrombosis). The authors consider the quality of the evidence base, highlight major guideline recommendations for patients in specific risk categories, and discuss areas in need of future study or ongoing research.

Departments

207 Staff Listing
293 CME Questions
303 JAMA Network Abstracts
305 Classified Advertising
308 Journal Advertiser Index
309 Contact Information

JAMA Patient Page

310 Preventing Stroke in People With Atrial Fibrillation

NEWS & ANALYSIS

Medical News & Perspectives

212 Genomic Technologies Speed Pathogen Detection

The JAMA Forum

214 Back to the Future: Volume as a Quality Metric
216 Global Health

Attacks on Health Increasing in Conflict-Ridden Countries

Multipronged Approach Helps Alleviate Poverty

Study Reveals Benefit of Early Antiretroviral Treatment

Liberia Carries Out Vaccination Campaign

217 News From the FDA

Thumbs Up for PCSK9 Inhibitors

Soft Tissue Filler Alert

Children’s Antiretroviral Combo

Editor’s Audio Summary

Howard Bauchner, MD, summarizes and comments on this week’s issue.

Author Interview

AUDIO Interview with Eric N. Prystowsky, MD, author of “Treatment of Atrial Fibrillation”

Author Reading

AUDIO Cornelia I. Bargmann, PhD, reads her Viewpoint “How the New Neuroscience Will Advance Medicine.”

The JAMA Forum

Insightful commentary on the political aspects of health care from leading health economists, health policy experts, and legal scholars

JAMA’s Key and Critical Objectives

jama.com/public/about.aspx

Copyright 2015 American Medical Association. All rights reserved.

Downloaded From: https://jamanetwork.com/ on 10/20/2023