

INFORMATION DOCUMENTAIRE

**VOL. 34 No 1
Janvier 2015**

PRÉSENTATION

INFORMATION DOCUMENTAIRE est un bulletin que le Service de l'accès à l'information et de la propriété intellectuelle met à votre disposition afin de souligner la documentation récente susceptible de vous intéresser dans les domaines sociosanitaires et d'en favoriser ainsi l'exploitation optimale.

La première partie vous présente les nouvelles acquisitions du Service de l'accès à l'information et de la propriété intellectuelle. Une courte notice bibliographique vous décrit les documents choisis. Vous retrouvez dans la deuxième partie les tables des matières des périodiques nouvellement reçus.

Si vous êtes un employé d'un milieu documentaire ou un membre du personnel du ministère de la Santé et des Services sociaux, de la Régie de l'assurance maladie du Québec, du Commissaire à la santé et au bien-être ou du Bureau du coronar, vous pouvez effectuer une demande de prêt de documents ou d'articles de périodiques par le biais de la [Bibliothèque virtuelle](#), par [courriel](#) ou par téléphone au 418-266-7007.

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Partie I

Nouvelles acquisitions

Liste détaillée de monographies

Titre : **Achieving high quality care : practical experience from NICE**
 Lieu de publication : Chichester, West Sussex
 Éditeur : Wiley-Blackwell
 Année de publication : 2014
 Description : xiv, 105 p. : ill.
 Cote : SA MON 3702 2014 QIAS

Titre : **Addictions chez l'enfant et l'adolescent**
 Lieu de publication : Paris
 Éditeur : Éditions Doin
 Année de publication : 2014
 Description : xix, 231 p. : ill., cartes.
 Cote : JE MON 808 2014 QIAS

Titre : **Addictions et comorbidités**
 Lieu de publication : Paris
 Éditeur : Dunod
 Année de publication : 2014
 Description : xiv, 433 p. : ill.
 Cote : SM MON 883 2014 QIAS

Titre : **Adolescentes mamans : histoire et actualité**
 Auteur : Carpentier, Nelly, 1949-
 Lieu de publication : Paris
 Éditeur : L'Harmattan
 Année de publication : 2014
 Description : 133 p.
 Cote : JE MON 810 2014 QIAS

Titre : **Analyse de la trajectoire de l'urgence par les personnes de 75 ans et plus en Montérégie : données 2009-2010**
 Auteur : Villeneuve, Lynn
 Lieu de publication : Longueuil
 Éditeur : Agence de la santé et des services sociaux de la Montérégie, Secteur Appréciation de la performance, Direction de la planification, de la performance et des connaissances
 Année de publication : 2014

Liste détaillée de monographies

Description : 49 p. : ill. en coul.
Cote : PA RES 350 2009/10 QIAS

Titre : **Approche non pharmacologique visant le traitement des symptômes comportementaux et psychologiques de la démence**
Auteur : Fleury, France Charles
Lieu de publication : Québec
Éditeur : Direction des communications, Ministère de la santé et des services sociaux
Année de publication : 2014
Description : 25 p. : ill.
Cote : SM MSSS 114 2014 QIAS

Titre : **Approche pharmacologique visant le traitement des symptômes comportementaux et psychologiques de la démence**
Auteur : Fleury, France Charles
Lieu de publication : Québec
Éditeur : Direction des communications, Ministère de la santé et des services sociaux
Année de publication : 2014
Description : 31 p. : ill.
Cote : SM MSSS 113 2014 QIAS

Titre : **Bending Canada's healthcare cost curve : watch not what governments say, but what they do**
Auteur : Robson, William B. P. (William Bertie Provost), 1959-
Lieu de publication : Toronto
Éditeur : C.D. Howe Institute
Année de publication : 2014
Description : 7 f. : ill. en coul.
Cote : SA MON 3700 2014 QIAS

Titre : **Bilan des directeurs de la protection de la jeunesse / Directeurs provinciaux 2014**
Auteur : Association des centres jeunesse du Québec
Lieu de publication : Montréal
Éditeur : Association des centres jeunesse du Québec
Année de publication : 2014
Description : 44 p. : ill. en coul.
Cote : JE RES 417 2014 QIAS

Liste détaillée de monographies

Titre :	Bilinguisation (La) des services de santé et des services sociaux du Québec
Auteur :	Lefebvre, Mathilde
Lieu de publication :	Montréal
Éditeur :	Institut de recherche en économie contemporaine
Année de publication :	2014
Description :	vi, 47 p. : ill. (certaines en coul.), cartes en coul.
Cote :	SA MON 3701 2014 QIAS
Titre :	Cadre de référence régional sur la responsabilité populationnelle
Auteur :	Agence de la santé et des services sociaux de la Mauricie et du Centre-du-Québec
Lieu de publication :	Trois-Rivières
Éditeur :	Direction de santé publique, Agence de la santé et des services sociaux de la Mauricie et du Centre-du-Québec
Année de publication :	2014
Description :	38 p. : ill. en coul.
Cote :	SA RES 607 2014 QIAS
Titre :	Charge (La) de travail des médecins en Eeyou Istchee : justification d'une requête pour l'augmentation des effectifs médicaux (per diem)
Auteur :	Foro, Anne
Lieu de publication :	Chisasibi, Québec
Éditeur :	Direction de santé publique, Conseil cri de la santé et des services sociaux de la Baie James
Année de publication :	2014
Description :	d, 30 p. : carte en coul.
Cote :	RT RES 127 2014 QIAS
Titre :	Chutes (Les) accidentelles en Abitibi-Témiscamingue : un portrait renversant?
Auteur :	Beaulé, Guillaume, 1970-
Lieu de publication :	Rouyn-Noranda
Éditeur :	Agence de la santé et des services sociaux de l'Abitibi-Témiscamingue
Année de publication :	2014
Description :	18 p. : ill. en coul.
Cote :	HS RES 513 2014 QIAS
Titre :	Clés (Les) de l'aide à domicile : la personne aidée, ses soutiens familiaux et les aides à domicile

Liste détaillée de monographies

Auteur : Raguénès, René

Lieu de publication : Paris

Éditeur : L'Harmattan

Année de publication : 2014

Description : 153 p.

Cote : SA MON 3703 2014 QIAS

Titre : **Clinique de mémoire : les paramètres organisationnels**

Auteur : Québec (Province). Groupe ministériel de travail sur les cliniques de mémoire

Lieu de publication : Québec

Éditeur : Direction des communications, Ministère de la santé et des services sociaux

Année de publication : 2014

Description : 30 p.

Cote : SM MSSS 111 2014 QIAS

Titre : **Comptes publics 2013-2014**

Auteur : Québec (Province). Ministère des finances

Lieu de publication : Québec

Éditeur : Finances Québec

Année de publication : 2014

Description : 2 v. (196 ; 433 p.) : ill.

Cote : AD GOU 017 2013/14 QIAS

Titre : **Critères de reconnaissance d'une ressource intermédiaire ou de type familial : orientations régionales**

Auteur : Lacroix, Nathalie

Lieu de publication : Rouyn-Noranda, Québec

Éditeur : Agence de la santé et des services sociaux de l'Abitibi-Témiscamingue

Année de publication : 2014

Description : ix, 48 p.

Cote : SA RES 608 2014 QIAS

Titre : **Déficiência intellectuelle et autisme : pratiques d'inclusion scolaire**

Lieu de publication : Québec

Éditeur : Presses de l'Université du Québec

Année de publication : 2014

Liste détaillée de monographies

Description : xx, 301 p. : ill. ; 23 cm.

Cote : JE MON 807 2014 QIAS

Titre : **Descriptions des états de santé au Canada : cancers**

Lieu de publication : Ottawa

Éditeur : Statistique Canada, Groupe d'analyse et de mesure de la santé : Agence de la santé publique du Canada, Unité de la recherche sur les politiques

Année de publication : 2006

Description : v, 47, 43, v p.

Cote : 82-619 MIF 01 2005 QIAS Stat.Can.

Titre : **Effectif (L') de la fonction publique du Québec 2012-2013 : analyse comparative des cinq dernières années**

Lieu de publication : Québec

Éditeur : Gouvernement du Québec, Sous-secrétariat au personnel de la fonction publique

Année de publication : 2014

Description : 161 p. : ill. en coul.

Cote : RT GOU 041 2012/13 QIAS

Titre : **Enquête québécoise sur l'expérience de soins 2010-2011 : analyse des résultats de la Capitale-Nationale : le médecin de famille et l'endroit habituel de soins**

Auteur : Agence de la santé et des services sociaux de la Capitale-Nationale. Service de la gestion intégrée de l'information

Lieu de publication : Québec

Éditeur : Service de la gestion intégrée de l'information, Agence de la santé et des services sociaux de la Capitale-Nationale

Année de publication : 2014

Description : 41 p. : graph.

Cote : SA RES 609 2010-11 QIAS

Titre : **Enquête santé Côte-Nord 2010 : rapport thématique**

Auteur : Therriault, Yves

Lieu de publication : Baie-Comeau

Éditeur : Agence de la santé et des services sociaux de la Côte-Nord Québec

Année de publication : 2014

Description : 2 v. : graph. en coul.

Cote : SE RES 357 .01 2014 QIAS

Liste détaillée de monographies

Titre :	Enquête sociale et de santé outaouaise régionale 2013 : rapport du directeur de santé publique
Auteur :	Agence de la santé et des services sociaux de l'Outaouais. Direction de santé publique
Lieu de publication :	Gatineau
Éditeur :	Agence de la santé et des services sociaux de l'Outaouais Québec, Direction de santé publique
Année de publication :	2014
Description :	64 p. : ill.
Cote :	HS RES 512 2013 QIAS
Titre :	Équipe ambulatoire symptômes comportementaux et psychologiques de la démence (SCPD) : les paramètres organisationnels
Auteur :	Québec (Province). Groupe ministériel de travail sur les équipes ambulatoires affectées à la gestion des symptômes comportementaux et psychologiques de la démence (SCPD)
Lieu de publication :	Québec
Éditeur :	Direction des communications, Ministère de la santé et des services sociaux
Année de publication :	2014
Description :	28 p.
Cote :	SM MSSS 112 2014 QIAS
Titre :	Évaluation sommaire du signalement de cas de cancer du cerveau dans la municipalité de Shannon à partir de données autorapportées auprès du Regroupement des citoyens de Shannon, Québec, Canada
Auteur :	Goupil-Sormany, Isabelle
Lieu de publication :	Québec
Éditeur :	Direction régionale de santé publique, Agence de la santé et des services sociaux de la Capitale-Nationale
Année de publication :	2014
Description :	37, [16], 4 p. : cartes en coul.
Cote :	SE RES 1120 2014 QIAS
Titre :	Good governance for prison health in the 21st century : a policy brief on the organization of prison health
Lieu de publication :	Copenhagen, Denmark
Éditeur :	World Health Organization, Regional Office for Europe
Année de publication :	2013
Description :	viii, 32 p.
Cote :	OMS ZZ 849 2013 QIAS

Liste détaillée de monographies

Titre : **Guide de partenariat centres de santé et de services sociaux, centres jeunesse**
 Lieu de publication : Montréal
 Éditeur : Agence de la santé et des services sociaux de Montréal
 Année de publication : 2014
 Description : vi, 74 p.
 Cote : JE RES 589 2014 QIAS

Titre : **Implementation research in health : a practical guide**
 Auteur : Peters, David H., 1962-
 Lieu de publication : Geneva, Switzerland
 Éditeur : Alliance for Health Policy and Systems Research : World Health Organization
 Année de publication : 2013
 Description : 67 p. : ill.
 Cote : OMS ZZ 847 2013 QIAS

Titre : **Indicateurs de santé 2013 : définitions, sources de données et raisonnement**
 Lieu de publication : Ottawa
 Éditeur : Institut canadien d'information sur la santé
 Année de publication : 2013
 Description : ix, 97 p.
 Cote : SE GOU 473 2013 QIAS

Titre : **Indications, effets indésirables et particulatirés des antinéoplasiques**
 Auteur : Dufour, Annick
 Lieu de publication : Greenfield Park, Québec
 Éditeur : Réseau de cancérologie de la Montérégie
 Année de publication : 2014
 Description : 76 p.
 Cote : SP GOU 194 2014 QIAS

Titre : **Itinérance (L') au Québec : premier portrait**
 Lieu de publication : Québec
 Éditeur : Direction des communications, Ministère de la santé et des services sociaux
 Année de publication : 2014
 Description : xiii, 168 p. : ill.

Liste détaillée de monographies

Cote : HS MSSS 123 2014 QIAS

Titre : **It's all about synergies : understanding the role of the registered practical nurse in Ontario's health care system**

Auteur : Lankshear, Sara

Lieu de publication : Mississauga

Éditeur : Registered Practical Nurses Association of Ontario

Année de publication : 2014

Description : 53 p. : ill.

Cote : RT MON 434 2014 QIAS

Titre : **Montréal sans tabac : enquête sur la cigarette électronique à Montréal**

Lieu de publication : Montréal

Éditeur : Agence de la santé et des services sociaux de Montréal

Année de publication : 2014

Description : v, 33 p. : ill en coul.

Cote : TO RES 261 2014 QIAS

Titre : **Montréal sans tabac : pour une génération de non-fumeurs : rapport du directeur de santé publique 2014**

Auteur : Agence de la santé et des services sociaux de Montréal. Direction de santé publique

Lieu de publication : Montréal

Éditeur : Direction de santé publique, Agence de la santé et des services sociaux de Montréal

Année de publication : 2014

Description : x, 61 p. : ill. en coul., cartes en coul.

Cote : TO RES 262 2014 QIAS

Titre : **Outils d'observation ou d'évaluation recommandés en version intégrale pour le traitement des symptômes comportementaux et psychologiques de la démence**

Auteur : Fleury, France Charles

Lieu de publication : Québec

Éditeur : Direction des communications, Ministère de la santé et des services sociaux

Année de publication : 2014

Description : 1 v. : ill.

Cote : SM MSSS 115 2014 QIAS

Titre : **Petit traité de rédaction et de stratégie de contenu pour le Web**

Liste détaillée de monographies

Auteur : Carpentier, Michaël, 1974-
 Lieu de publication : Québec
 Éditeur : Michaël Carpentier
 Année de publication : 2012
 Description : 160 p., 1 f. de pl. plié : ill. ; 23 cm.
 Cote : TS MON 447 2012 QIAS

Titre : **Plan d'action de santé dentaire publique 2005-2012 : bilan 2012-2013**
 Auteur : Gagnon, Sylvie, dentiste-conseil
 Lieu de publication : Gaspé, Québec
 Éditeur : Direction de santé publique, Agence de la santé et des services sociaux de la Gaspésie-Îles-de-la-Madeleine
 Année de publication : 2014
 Description : 76 p. : ill.
 Cote : SD RES 053 2012-13 QIAS

Titre : **Plan d'action interministériel en itinérance 2010-2013 : bilan**
 Lieu de publication : Québec
 Éditeur : Direction des communications, Ministère de la santé et des services sociaux du Québec
 Année de publication : 2014
 Description : 24 p.
 Cote : HS MSSS 107 .01 2010/13 QIAS

Titre : **Plan d'action interministériel en itinérance 2015-2020**
 Lieu de publication : Québec
 Éditeur : Direction des communications, Ministère de la santé et des services sociaux du Québec
 Année de publication : 2014
 Description : ix, 55 p.
 Cote : HS MSSS 107 2015/20 QIAS

Titre : **Politique administrative sur les ressources intermédiaires ou de type familial : orientations régionales**
 Auteur : Lacroix, Nathalie
 Lieu de publication : Rouyn-Noranda, Québec
 Éditeur : Agence de la santé et des services sociaux de l'Abitibi-Témiscamingue
 Année de publication : 2014

Liste détaillée de monographies

Description : vii, 53 p.

Cote : AS RES 595 2014 QIAS

Titre : **Portrait de la population d'expression anglaise en Abitibi-Témiscamingue**

Lieu de publication : Rouyn-Noranda, Québec

Éditeur : Agence de la santé et des services sociaux de l'Abitibi-Témiscamingue

Année de publication : 2015

Description : 29 p. : ill. en coul., graph. en coul.

Cote : HS RES 458 2015 QIAS

Titre : **Portrait des infections transmissibles sexuellement et par le sang (ITSS) au Québec, année 2013 et projections 2014 : rapport**

Lieu de publication : Québec

Éditeur : Institut national de santé publique Québec

Année de publication : 2014

Description : ix, 95 p. : ill.

Cote : SE MSSS 315 2013 QIAS

Titre : **Productivité et prospérité au Québec : bilan 2014**

Lieu de publication : Montréal

Éditeur : Centre sur la productivité et la prospérité, HEC Montréal

Année de publication : 2014

Description : 40 p.

Cote : AD MON 603 2014 QIAS

Titre : **Programme régional : plan d'action 2014-2017**

Lieu de publication : Longueuil

Éditeur : Agence de la santé et des services sociaux de la Montérégie

Année de publication : 2014

Description : 62 p. : ill. en coul.

Cote : SE RES 1121 2014/17 QIAS

Titre : **Rapport annuel de gestion 2013-2014**

Auteur : Agence de la santé et des services sociaux de la Gaspésie-Îles-de-la-Madeleine

Lieu de publication : Gaspé

Éditeur : Agence de la santé et des services sociaux de la Gaspésie-Îles-de-la-Madeleine
Québec

Liste détaillée de monographies

Année de publication : 2014
 Description : 167 p. : ill. en coul.
 Cote : RA3 RRSSS 11 2013/14 QIAS Rapp.ann.

Titre : **Rapport annuel de gestion 2013-2014**
 Auteur : Agence de la santé et des services sociaux du Bas-Saint-Laurent
 Lieu de publication : Rimouski
 Éditeur : Agence de la santé et des services sociaux du Bas-Saint-Laurent Québec
 Année de publication : 2014
 Description : 131 p. : ill. en coul.
 Cote : RA3 RRSSS 01 2013/14 QIAS Rapp.ann.

Titre : **Rapport annuel de gestion 2013-2014**
 Auteur : Québec (Province). Curateur public
 Lieu de publication : Montréal
 Éditeur : Curateur public du Québec
 Année de publication : 2014
 Description : 62 p.
 Cote : RA6 CPQ 2013/14 QIAS Rapp.ann.

Titre : **Rapport annuel sur l'application de la procédure d'examen des plaintes et l'amélioration de la qualité des services 2013-2014**
 Auteur : Agence de la santé et des services sociaux du Bas-Saint-Laurent
 Lieu de publication : Rimouski, Québec
 Éditeur : Agence de la santé et des services sociaux du Bas-Saint-Laurent
 Année de publication : 2014
 Description : 38 p. : ill. (certaines en coul.).
 Cote : AS RES 242 2013/14 QIAS

Titre : **Rapport annuel sur l'application de la procédure d'examen des plaintes et l'amélioration de la qualité des services 2013-2014**
 Auteur : Agence de la santé et des services sociaux de la Gaspésie-Îles-de-la-Madeleine
 Lieu de publication : Gaspé
 Éditeur : Agence de la santé et des services sociaux de la Gaspésie-Îles-de-la-Madeleine Québec
 Année de publication : 2014
 Description : 48 p. : ill.

Liste détaillée de monographies

Cote : AS RES 238 2013/14 QIAS

Titre : **Recueil de cas de recherche interventionnelle en santé des populations**

Lieu de publication : Ottawa

Éditeur : Instituts de recherche en santé du Canada : Institut canadien d'information sur la santé

Année de publication : 2011

Description : 52 p. : ill.

Cote : SA GOU 825 2011 QIAS

Titre : **Regards croisés sur la gestion du stress professionnel**

Lieu de publication : Paris

Éditeur : L'Harmattan

Année de publication : 2014

Description : 297 p. : ill.

Cote : ST MON 296 2014 QIAS

Titre : **Répertoire des habiletés sociales développé par A. P. Goldstein s'adressant aux adolescents.**

Lieu de publication : Montréal

Éditeur : Boscoville 2000

Année de publication : 2014

Description : 104 p.

Cote : JE MON 811 2014 QIAS

Titre : **Santé (La) mentale : portrait des jeunes du secondaire de la Montérégie**

Auteur : Boulais, Julie

Lieu de publication : Longueuil

Éditeur : Direction de santé publique de la Montérégie, Agence de la santé et des services sociaux de la Montérégie

Année de publication : 2014

Description : 18 p. : ill. en coul.

Cote : JE RES 677 .07 2014 QIAS

Titre : **Schéma (Le) d'aménagement et de développement de l'agglomération de Montréal : un outil pour promouvoir la santé des Montréalais : mémoire présenté à la la Ville de Montréal dans le cadre de la consultation sur le Schéma d'aménagement et de ...**

Lieu de publication : Montréal

Liste détaillée de monographies

Éditeur : Agence de la santé et des services sociaux de Montréal Québec
 Année de publication : 2014
 Description : v, 26 p.
 Cote : TS RES 079 2014 QIAS

Titre : **Services préhospitaliers : urgence d'agir : rapport du Comité national sur les services préhospitaliers d'urgence.**
 Auteur : Québec (Province). Comité national sur les services préhospitaliers d'urgence
 Lieu de publication : Québec
 Éditeur : Direction des communications, Ministère de la santé et des services sociaux
 Année de publication : 2014
 Description : xix, 149 p. : ill. en coul.
 Cote : SA MSSS 542 2014 QIAS

Titre : **Strengthening people-centred health systems in the WHO European Region : a framework for action toward coordinated/integrated health services delivery (CIHSD) : roadmap**
 Lieu de publication : Copenhagen, Denmark
 Éditeur : World Health Organisation, Regional Office from Europe
 Année de publication : 2013
 Description : 35 p. : ill.
 Cote : OMS ZZ 848 2013 QIAS

Titre : **Sud-Ouest-Verdun (Le) : une histoire de santé de 1867 à 2014**
 Auteur : Gravel, Denis, 1958-
 Lieu de publication : Montréal
 Éditeur : Société de recherche historique Archiv-Histo Inc.
 Année de publication : 2014
 Description : 184 p. : ill.
 Cote : SA MON 3705 2014 QIAS

Titre : **Suicide (Le) des personnes âgées : clinique, prévention et prise en charge**
 Auteur : Charazac-Brunel, Marguerite
 Lieu de publication : Toulouse
 Éditeur : Éditions Érès
 Année de publication : 2014
 Description : 270 p.

Liste détaillée de monographies

Cote : PA MON 1029 2014 QIAS

Titre : **Summary evaluation of a report of brain cancer cases in the municipality of Shannon, based on data self-reported to the Regroupement des citoyens de Shannon, Québec, Canada**

Auteur : Goupil-Sormany, Isabelle

Lieu de publication : Québec

Éditeur : Direction régionale de santé publique, Agence de la santé et des services sociaux de la Capitale-Nationale

Année de publication : 2014

Description : 36, [16], 4 p. : cartes en coul.

Cote : SE RES 1120 2014a QIAS

Titre : **Surdose (La) des systèmes de santé : le paradoxe de l'ajout de ressources pour réduire les délais d'attente : l'organisation du travail selon l'approche Lean**

Auteur : Villeneuve, Camil, 1962-

Lieu de publication : Québec

Éditeur : Camil Villeneuve

Année de publication : 2013

Description : v, 287 p.

Cote : SA MON 3704 2013 QIAS

Titre : **Surveillance des maladies infectieuses chez les utilisateurs de drogue par injection : épidémiologie du VIH de 1995 à 2012, épidémiologie du VHC de 2003 à 2012**

Lieu de publication : Québec

Éditeur : Direction risques biologiques et de la santé au travail, Institut national de santé publique du Québec

Année de publication : 2014

Description : xi, 107 p. : ill., carte.

Cote : TO GOU 266 1995/2002 QIAS

Titre : **Usage (L') de la cigarette électronique chez les élèves québécois du secondaire : 2012-2013**

Auteur : Lasnier, Benoît

Lieu de publication : Québec

Éditeur : Institut national de santé publique du Québec

Année de publication : 2014

Description : 19 p.

Liste détaillée de monographies

Cote : TO GOU 312 .11 2012-13 QIAS

Partie II

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Academic Emergency Medicine

The journal for emergency care clinicians, researchers, and educators

Volume 21 • Number 12 • December 2014

www.aemj.org

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James R. Miner, MD
Esther K. Choo, MD, MPH

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ACP Journal Club®

The Best New Evidence for Patient Care

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- GM** General Internal Medicine, Family Practice, General Practice
- A** Allergy & Immunology
- CC** Critical Care
- C** Cardiology
- D** Dermatology
- EM** Emergency Medicine
- En** Endocrinology
- G** Geriatrics
- Gen** Genetics
- GI** Gastroenterology
- H** Hematology/Thromboembolism
- HO** Hospitalists
- ID** Infectious Disease
- MH** Mental Health
- N** Neurology
- Np** Nephrology
- O** Oncology
- OE** Occupational/Environmental Health
- PM** Pulmonology
- PR** Physical Medicine & Rehabilitation
- PH** Public Health
- R** Rheumatology
- T** Tropical & Travel Medicine

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Editor's Notes: What Is the ROI for Workplace Health Promotion? It Really Does Depend, and That's the Point

A recent systematic review of the literature on the financial impact of workplace health promotion found that 46 of 47 programs saved money, 41 saved more than they cost, and that the returns on investment varied greatly based on the quality of the study methodology, year of publication, sample size, scope of the program, direct or indirect measurement of savings and costs, and several other factors. A close examination of the methodology of the single study that reported net financial loss illustrates the complexity of drawing conclusions from summaries of the literature without also examining the details. Next steps in advancing studies of the financial impact of workplace health promotion programs include developing a scale to measure methodology quality that is appropriate for workplace health promotion programs, and engaging independent third parties to evaluate programs.

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THE SCIENCE OF LIFESTYLE CHANGE

Financial Analysis

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Marilena J. Kohn
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Perceived Workplace Health Support Is Associated With Employee Productivity

A cross-sectional survey of Washington State employees was done to examine whether perceived workplace support for healthy living and physical activity is associated with work productivity independent of health risks, health behaviors, and mental health. Four thousand seven hundred and three surveys were administered both in paper form and online to state agency employees and 3528 were used in the analysis. Multiple regression was used to determine the relationship between perceived workplace health support and productivity (presenteeism and absenteeism). Results showed that presenteeism decreased as perceived support for healthy living or physical activity increased. Absenteeism did not vary across levels of either perceived workplace support for healthy living or perceived workplace support for physical activity. The authors concluded that higher perceived workplace support for healthy living and physical activity is associated with lower presenteeism. Because this study was cross-sectional, no causal inferences can be made.

Shirley Musich
Tre' McCalister
Sara Wang
Kevin Hawkins

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An Evaluation of the Well at Dell Health Management Program: Health Risk Change and Financial Return on Investment

A quasi-experimental design was used to measure the financial impact of an outcomes-based, incentive-driven wellness program consisting of health risk appraisal and wellness programs, lifestyle management, and disease management programs among 24,651 employees at Dell Computer who were continuously enrolled in the health plan during 2010–2011 and were eligible for health management programming in 2011. The annual costs of the programs were \$565,739 for health risk appraisal/wellness programs, \$703,428 for lifestyle management, and \$350,200 for disease management programs, for a total cost of \$1,619,367. Total savings were estimated to be \$4,012,555, for an overall return on investment of 2.48 and returns on investment of 9.31 for the health risk appraisal/wellness program, –.46 for lifestyle management, and –2.65 for disease management programs. Returns on investment in 2009 and 2010 were 2.55 and 2.11 respectively.

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James D. LeCheminant
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Fitness**Effect of Two Jumping Programs on Hip Bone Mineral Density in Premenopausal Women: A Randomized Controlled Trial**

Eighty-eight premenopausal women were randomly assigned to one of two treatment groups or a control group. One treatment group (Jump 10) performed 10 jumps and the other treatment group (Jump 20) performed 20 jumps twice daily for 16 weeks. The control group performed stretching exercises. Hip bone mineral density was measured using dual-energy X-ray absorptiometry. Analysis of variance was used to measure the extent to which the treatment group differed from the controls in bone mineral density at baseline, 8 weeks, and 16 weeks. Results showed no significant difference at baseline and significant differences at 8 and 16 weeks compared to controls. The authors concluded that bone mineral density in premenopausal women can be improved by jumping 10 or 20 times twice daily. The attrition rate in the Jump 20 group was higher than in the Jump 10 group, which may affect generalizability of results.

John M. Mayer
William S. Quillen
Joe L. Verna
Ren Chen
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Simon Dagenais

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Impact of a Supervised Worksite Exercise Program on Back and Core Muscular Endurance in Firefighters

Ninety-six career firefighters from Tampa, Florida were randomly assigned to an exercise ($n = 54$) or control group ($n = 32$) to determine the effects of worksite exercise on back and core muscle endurance. The exercise group completed back and core muscle exercises two times each week for 24 weeks and the control completed their normal fitness regimes. Analysis of covariance was used to determine if differences in back and core muscular endurance existed between the exercise and control groups after 24 weeks. Results showed both back and core muscle endurance was greater for the exercise group than the control group. The authors concluded that a supervised exercise program targeting the back and core muscles was safe and effective. The strict inclusion and exclusion criteria may have limited enrollment and generalizability of the study's findings.

Julie Gost
Amy Campbell Nielson
Anne Hunt
Jason J. Leiker

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**Intuitive Eating: Associations With Physical Activity Motivation and BMI**

This cross-sectional study examined whether university women who demonstrated internal motivation for eating would also be internally motivated to participate in regular physical activity and have lower body mass index (BMI) when controlling for age. Participants were 200 undergraduate women attending a large public university in the western United States (mean age = 19 years; 90% Caucasian; 69% of healthy weight [BMI range = 18.5–24.9]). Correlation and regression analyses revealed that women who were internally motivated to eat were also internally motivated to participate in regular physical activity and were significantly more likely to engage in physical activity for pleasure and to view physical activity as part of their self-concept. Those reporting high as compared to medium or low levels of intuitive eating had significantly lower BMI scores when controlling for age. Health professionals might examine motivation for eating and physical activity among university women seeking to achieve or maintain a healthy weight.

Swapna S. Dave
Lynette L. Craft
Pronita Mehta
Shilpa Naval
Santosh Kumar
Namratha R. Kandula

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@

Life Stage Influences on U.S. South Asian Women's Physical Activity

This study explored South Asian women's perspective on physical activity during different life stages using a community-based participatory focus group with 42 immigrants aged 18–71 years from Chicago, Illinois. Participants indicated that their ability to engage in physical activity was strongly influenced by different life stages. In particular, physical activity decreased after marriage and having children. Chronic diseases constrained older women from more vigorous physical activity. Barriers to physical activity among younger women were family disapproval and perceptions that physical activity is unnecessary if you are "skinny." Participants agreed that physical activity is not a priority within the culture, and that interventions must take into account cultural, religious, and family context. The authors concluded that culturally salient intervention strategies that include programs in trusted community settings where women can exercise in women-only classes with their children and targeted education campaigns might increase physical activity across life stages.

Frances Lee-Lin
Thuan Nguyen
Nisreen Pethiwala
Nathan Dieckmann
Usha Menon

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Medical Self-Care

A Breast Health Educational Program for Chinese-American Women: 3- to 12-Month Postintervention Effect

This study assessed the efficacy of a culturally targeted breast cancer screening educational program in increasing mammogram completion in Chinese-American immigrant women. The main intervention was a two-part intervention that included group teaching with targeted theory-based messages followed by individual counseling sessions. The control group was given a mammogram screening brochure. The results showed that when controlling for marital status, age, and age at which the participant moved to the United States, the intervention group was nine times more likely to complete the mammograms than the control group. The authors concluded that a culturally targeted breast cancer screening educational program has the potential to increase mammogram screening completion among Chinese-American immigrant women, as well as in other minority subgroups.

Jiska Cohen-Mansfield
Rotem Perach

e109
@

Mind-Body Health

Interventions for Alleviating Loneliness Among Older Persons: A Critical Review

A systematic literature review was undertaken to (1) gain a better understanding of the utility of interventions for loneliness among older adults, (2) identify interventions that are efficacious for specific subpopulations, and (3) clarify what knowledge relating to loneliness interventions is lacking. Inclusion criteria included studies that included a sample of older adults, effects of the intervention were included as an outcome measure, pretest and posttest comparisons were made, and the article was published between 1996 and 2011. Twenty-eight articles met the inclusion criteria. Results showed that it is possible to reduce loneliness through educational interventions focused on social network maintenance and enhancement. The authors concluded that multiple approaches to reduce loneliness show promise. Limiting age cutoff was a methodological difficulty encountered and as a result influences the degree of strength of the findings.

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Joel B. Bennett

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Behavior Change

A Cluster Randomized Trial of Alcohol Prevention in Small Businesses: A Cascade Model of Help Seeking and Risk Reduction

This study tested a conceptual model of workplace training effects on help seeking and alcohol consumption in small businesses in Texas. The intervention included a 4-hour on-the-job training that encouraged healthy lifestyles and seeking professional help from the employee assistance program, a team awareness program that focused on peer referral and team building, and a choices in health promotion program that delivered various health topics based on a needs assessment. The results showed that, compared to the control group, training was associated with significant reductions in drinking frequency and with willingness to seek (and seeking) help. The authors concluded that on-the-job training has the potential to improve help-seeking attitudes and behaviors as well as reducing alcohol risks among the workforce.

Lizzy Pope
Jean Harvey

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Incentives

The Impact of Incentives on Intrinsic and Extrinsic Motives for Fitness-Center Attendance in College First-Year Students

The objective of this study was to determine the impact of monetary incentive provision on participation motives for exercise. The paper reports on a randomized controlled trial with 117 first-year college students at a northeastern public university. Participants were randomized to one of three conditions: a control condition receiving no incentives for meeting fitness-center attendance goals, a discontinued-incentive condition receiving weekly incentives during fall semester 2011 and no incentives during spring semester 2012, or a continued-incentive condition receiving weekly incentives during fall semester and incentives on a variable-interval schedule during spring semester. The Exercise Motivation Inventory 2 measured exercise participation motives at baseline, end of fall semester, and end of spring semester. Fitness center attendance was monitored using ID-card check-in/checkout records. Repeated-measures analyses using linear mixed models with first-order autoregressive covariance structures were run to compare motive changes in the three conditions. Participation motives of enjoyment and revitalization associated with intrinsic motivation did not decrease significantly over time in any of the conditions. Incentives may encourage fitness-center attendance without negatively impacting participation motives for exercise.

Chiachi Bonnie Lee
Michael S. Chen
Michael John Powell
Cordia Ming-Yeuk Chu

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Population Health

Self-Reported Changes in the Implementation of Hospital-Based Health Promotion in Taiwan

The Taiwan Health Promoting Hospital network began in 2006. A cross-sectional study was undertaken to determine the extent to which perceived changes occurred among health promotion coordinators after implementation of hospital-based health promotion programs. Fifty-two hospital health promotion coordinators completed a questionnaire measuring five domains including perceived changes involving staff, patients, community, environment, and organization of the hospital. Descriptive statistics were used to determine prevalence patterns of perceived changes. Results showed that perceived changes were most prevalent in the patient and community domains. The authors concluded that the Health Promoting Hospital initiative facilitated the hospitals in building their capacity for health promotion. A key limitation was that the person completing the questionnaire was also the health promotion coordinator, which could have resulted in response bias and limited generalizability.

The *Art* of Health Promotion

Paul E. Terry

TAHP-1

Editor's Desk: The Vision and Direction Issue

The past is prologue in dramatic story telling as well as in creating a sustainable strategy in a field of study or a profession.

Lawrence W. Green
Paul E. Terry

TAHP-2

"What's Past is Prologue": Views from Dr. Lawrence W. Green

A discussion with visionary Larry Green, a professor, prolific author and co-creator of a health promotion planning framework that has been a core component of public health education academic training for 35 years.

Paul E. Terry
Editors of the *American
Journal of Health Promotion*

TAHP-9

Purpose, Core Values, and Vision for Health Promotion

Responses from leading experts on the direction and priorities for the field of health promotion.

Paul E. Terry

TAHP-11

When Visionary Influences and Professional Tenets Are Inseparable

A discussion of how our professional behaviors have mitigated our effectiveness in changing public policies.

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Cover

Guintivano et al. (p. 1287) report a DNA signature for increased suicide risk in this issue. Oquendo et al. (p. 1259) survey other markers for suicide, and Kendler (p. 1248) discusses the inclusion of biomarkers in clinical diagnoses. Purple and turquoise ribbons signifying suicide awareness, here altered to include the DNA helix, can be purchased from the National Suicide Prevention Lifeline: <http://www.suicidepreventionlifeline.org/getinvolved/awarenessribbons.aspx>. Cover design by Susan Westrate



Audio

this article is featured in *AJP Audio*: a downloadable .mp3 file available at ajp.psychiatryonline.org

Clinical Guidance

this article offers clinical guidance (see "In this Issue" page or end of article)

CME

a course covering the content of this article is available online for paid subscribers to the AJP CME Course Program

Editorial

this article is discussed in one of the issue's editorials

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this article is highlighted online by Deputy Editor Danny Pine

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Original Research

Valganciclovir for the Prevention of Complications of Late Cytomegalovirus Infection After Allogeneic Hematopoietic Cell Transplantation

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M. Boeckh, W.G. Nichols, R.F. Chemaly, G.A. Papanicolaou, J.R. Wingard, H. Xie, K.L. Syrjala, M.E.D. Flowers, T. Stevens-Ayers, K.R. Jerome, and W. Leisenring
Cytomegalovirus (CMV) disease is a complication of hematopoietic cell transplantation. In this multicenter, randomized trial, the authors compared valganciclovir prophylaxis with polymerase chain reaction-guided pre-emptive therapy in preventing CMV disease. They found no difference between the approaches in the occurrence of death, CMV disease, or other infections and concluded that both strategies are effective in preventing CMV disease in the setting of hematopoietic cell transplantation.

Effect of Ebola Progression on Transmission and Control in Liberia

11

D. Yamin, S. Gertler, M.L. Ndeffo-Mbah, L.A. Skrip, M. Fallah, T.G. Nyenswah, F.L. Altice, and A.P. Galvani
The current epidemic of Ebola virus disease in Western Africa is unprecedented, and there is an urgent need to control its trajectory with very limited resources. Using clinical and epidemiologic data from Liberia, researchers developed a model to estimate the effect of different approaches to epidemic control. The model suggests that isolating the most severely ill patients during the earliest days of their illness could help end the epidemic.

Multitarget Therapy for Induction Treatment of Lupus Nephritis

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Z. Liu, H. Zhang, Z. Liu, C. Xing, P. Fu, Z. Ni, J. Chen, H. Lin, F. Liu, Y. He, Y. He, L. Miao, N. Chen, Y. Li, Y. Gu, W. Shi, W. Hu, Z. Liu, H. Bao, C. Zeng, and M. Zhou
The current single-drug induction regimens for lupus nephritis are associated with low rates of complete remission. This multicenter randomized trial found that a multidrug regimen targeting different components of the immune system resulted in higher rates of remission among patients with lupus nephritis. Although adverse events resulted in more patients withdrawing from the multidrug group than the standard treatment group, the overall rate of adverse events was similar.

D-Dimer Testing to Select Patients With a First Unprovoked Venous Thromboembolism Who Can Stop Anticoagulant Therapy

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C. Kearon, F.A. Spencer, D. O'Keeffe, S. Parpia, S. Schulman, T. Baglin, S.M. Stevens, S. Kaatz, K.A. Bauer, J.D. Douketis, S.R. Lentz, C.M. Kessler, S. Moll, J.M. Connors, J.S. Ginsberg, L. Spadafora, and J.A. Julian, for the D-Dimer Optimal Duration Study Investigators
Normal D-dimer levels after withdrawal of anticoagulant therapy are associated with a reduced risk for recurrence in patients with unprovoked venous thromboembolism (VTE) and may justify stopping treatment. This prospective cohort study suggests that anticoagulation should be continued indefinitely in men and that the situation is more complicated in women.

Reviews

Screening and Treatment of Thyroid Dysfunction: An Evidence Review for the U.S. Preventive Services Task Force

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J.B. Ruge, C. Bougatsos, and R. Chou
This updated review for the U.S. Preventive Services Task Force assesses evidence about screening and treatment of subclinical and undiagnosed overt hypothyroidism and hyperthyroidism in adults without goiter or thyroid nodules. No study directly assessed benefits and harms of either screening or treatment of screen-detected, undiagnosed overt thyroid dysfunction. Scant data suggested that treating subclinical hypothyroidism may reduce the risk for coronary heart disease.

Comparative Effectiveness of Pharmacologic Interventions for Knee Osteoarthritis

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R.R. Bannuru, C.H. Schmid, D.M. Kent, E.E. Vaysbrot, J.B. Wong, and T.E. McAlindon
More knowledge is needed about the comparative efficacy and toxicity of treatments for knee osteoarthritis to develop rational treatment algorithms. This network meta-analysis of 137 studies found that intra-articular treatments were superior to nonsteroidal anti-inflammatory drugs and all treatments except acetaminophen showed clinically significant improvement from baseline pain.

CME quiz available at www.annals.org.

Research and Reporting Methods

Transparent Reporting of a multivariable prediction model for Individual Prognosis Or Diagnosis (TRIPOD): The TRIPOD Statement 55

G.S. Collins, J.B. Reitsma, D.G. Altman, and K.G.M. Moons
The TRIPOD Initiative developed a set of recommendations for reporting studies developing, validating, or updating a prediction model. Authors present a checklist of items deemed essential for transparent reporting of a prediction model. The TRIPOD Statement is best used in conjunction with the TRIPOD explanation and elaboration document, available at www.annals.org.

TRIPOD: Explanation and Elaboration

K.G.M. Moons, D.G. Altman, J.B. Reitsma, J.P.A. Ioannidis, P. Macaskill, E.W. Steyerberg, A.J. Vickers, D.F. Ransohoff, and G.S. Collins
In this TRIPOD explanation and elaboration article, authors describe and explicate each checklist item and provide published examples of good reporting. This article is available only online at www.annals.org.

Ideas and Opinions

Accounting for "Lost Pleasure" in a Cost-Benefit Analysis of Government Regulation: The Case of the Food and Drug Administration's Proposed Cigarette Labeling Regulation 64

F.J. Chaloupka, J. Gruber, and K.E. Warner
The U.S. Food and Drug Administration (FDA) prepared an economic impact analysis of a proposed rule for graphic warning labels on tobacco products. This commentary discusses the analysis and finds fault with the FDA's decision to include the "lost pleasure" from tobacco use as a cost in economic impact analyses of regulations.

The Potential Ebola Virus-Infected Patient in the Ambulatory Care Setting: Preparing for the Worst Without Compromising Care 66

H.M. Wu, J.K. Fairley, J. Steinberg, and P. Kozarsky
Recommendations for evaluation of patients with possible Ebola virus disease have focused on hospital emergency departments and inpatient units as the loci of care. However, patients may present to ambulatory settings. This commentary describes a dedicated, travel clinic-based program that uses existing phone triage systems, provides assessment by infectious disease experts, and ensures appropriate isolation and infection control.

Caring for Patients With Ebola: A Challenge in Any Care Facility 68

M.G. Kortepeter, P.W. Smith, A. Hewlett, and T.J. Cieslak
Medical centers in the United States are coming to grips with the need to prepare for care of patients with Ebola virus disease. This commentary discusses the challenges of treating these patients in a conventional setting.

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Celebrating the ACP Centennial: From the *Annals* Archive 70

D. Cotton
During the 2015 centennial year of the American College of Physicians, *Annals* editors will link an article in each issue with an earlier paper from our archives addressing the same disease or clinical question.

Relative Efficacy of Knee Osteoarthritis Treatments: Are All Placebos Created Equal? 71

L.A. Mandl and E. Losina
In this issue, Bannuru and colleagues conducted a network meta-analysis of existing evidence to better understand the comparative efficacy and toxicity of treatments for knee osteoarthritis. The editorialists assert that innovative research models will be essential to optimize pain control for patients with knee osteoarthritis.

TRIPOD: A New Reporting Baseline for Developing and Interpreting Prediction Models 73

A.R. Localio and C.B. Stack
In this issue, the TRIPOD Initiative proposes an annotated checklist for transparent reporting of prediction or prognostic models. The editorialists discuss the importance of overcoming the challenges posed by multi-institutional data sources, data misclassification, measurement error, unobserved factors, and time-varying risks and treatments in such models.

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In the Clinic

Rotator Cuff Disease ITC1

CME quiz available at www.annals.org

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Cover photographer: *Jessie Rakestraw Smith*
Subject: *Vernon M. Carrigan, MD, FACP*

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Original Research

Combination Antifungal Therapy for Invasive Aspergillosis. A Randomized Trial 81

K.A. Marr, H.T. Schlamm, R. Herbrecht, S.T. Rottinghaus, E.J. Bow, O.A. Cornely, W.J. Heinz, S. Jagannatha, L.P. Koh, D.P. Kontoyiannis, D.G. Lee, M. Nucci, P.G. Pappas, M.A. Slavin, F. Queiroz-Telles, D. Selleslag, T.J. Walsh, J.R. Wingard, and J.A. Maertens

This randomized, controlled trial assessed the safety and efficacy of voriconazole and anidulafungin compared with voriconazole monotherapy for invasive aspergillosis (IA). Overall mortality was the same in both groups, and no differences in safety were identified. Mortality was lower with combination therapy in a subgroup of patients whose IA diagnosis was established by radiographic findings and galactomannan positivity. In the absence of definitive trial results, clinicians may decide to choose therapy for IA on the basis of individual patient characteristics.

Factors Associated With Lack of Viral Suppression at Delivery Among Highly Active Antiretroviral Therapy-Naïve Women With HIV. A Cohort Study 90

I.T. Katz, E. Leister, D. Kacanek, M.D. Hughes, A. Bardeguet, E. Livingston, A. Stek, D.E. Shapiro, and R. Tuomala
Highly active antiretroviral therapy (HAART) that suppresses viral replication is used to manage HIV in pregnant women and decrease the risk for mother-to-child transmission at delivery. This cohort study identified factors associated with detectable viral load at delivery despite the initiation of HAART during pregnancy. The authors concluded that the timing of HAART initiation and prenatal care, as well as medication adherence during pregnancy, were associated with detectable viral load at delivery.

Overuse of Testing in Preoperative Evaluation and Syncope. A Survey of Hospitalists 100

A. Kachalia, A. Berg, A. Fagerlin, K.E. Fowler, T.P. Hofer, S.A. Flanders, and S. Saint
Health care reform efforts and initiatives seek to improve quality and reduce costs by eliminating unnecessary care. In this study, the authors randomly selected and surveyed physicians practicing adult hospital medicine to assess the extent of and factors associated with overuse of testing in preoperative evaluation and in evaluation of syncope. The results suggest that testing is substantially overused and that a desire to provide reassurance to patients, family

members, or themselves may motivate physicians to override clinical guidelines and evidence.

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Screening for Vitamin D Deficiency: A Systematic Review for the U.S. Preventive Services Task Force 109

E.S. LeBlanc, B. Zakher, M. Daeges, M. Pappas, and R. Chou
This systematic review for the U.S. Preventive Services Task Force (USPSTF) examined the benefits and harms of screening for vitamin D deficiency in asymptomatic adults. Treatment for vitamin D deficiency reduced mortality risk in institutionalized elderly adults and the risk for falls but not fractures.

Sedentary Time and Its Association With Risk for Disease Incidence, Mortality, and Hospitalization in Adults. A Systematic Review and Meta-analysis 123

A. Biswas, P.I. Oh, G.E. Faulkner, R.R. Bajaj, M.A. Silver, M.S. Mitchell, and D.A. Alter
Physical activity has many health-enhancing benefits, but it may not be enough to reduce the risk for disease and illness. This systematic review and meta-analysis evaluated the association between sedentary time and health outcomes, independent of physical activity, in adults. Prolonged sedentary time was associated with an increased risk for all-cause, cardiovascular disease, and cancer mortality; cardiovascular disease; cancer; and type 2 diabetes.

CME quiz available at www.annals.org

Clinical Guideline

Screening for Vitamin D Deficiency in Adults: U.S. Preventive Services Task Force Recommendation Statement 133

M.L. LeFevre, on behalf of the U.S. Preventive Services Task Force
This new USPSTF recommendation on screening for vitamin D deficiency applies to community-dwelling, nonpregnant adults aged 18 years or older who are seen in primary care settings and are not known to have signs or symptoms of vitamin D deficiency or conditions for which vitamin D treatment is recommended. The USPSTF concluded that the current evidence is insufficient to assess the balance of benefits and harms of screening for vitamin D deficiency in such persons.

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Drug and Vaccine Access in the Ebola Epidemic: Advising Caution in Compassionate Use 141

A. Hantel and C.O. Olopade
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D. Cotton
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Screening for Vitamin D Deficiency: Is the Goal Disease Prevention or Full Nutrient Repletion? 144

R.P. Heaney and L.A.G. Armas
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E.L. Brittain and A.R. Hemnes
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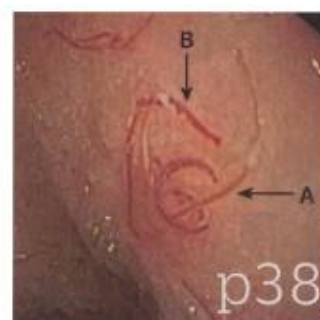
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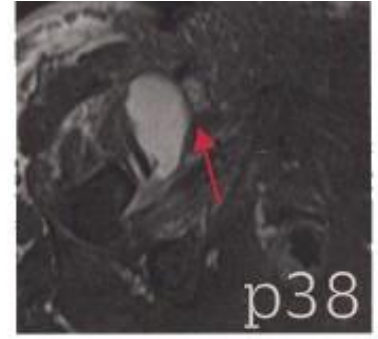
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3847 CancerScope: Oncology Issues in Focus

Carrie Printz

This news section offers Cancer readers timely information on events, public policy analysis, topical issues, and personalities. This edition examines the role genetics may play in early-onset prostate cancer, the ASCO and AACR response to proposed FDA tobacco regulation, and the results of a new study that shows a disparity in survival in patients with lymphoma who live in low socioeconomic status neighborhoods versus those who do not.

Published online 4 December 2014

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3850 Eliminating Cost-Sharing Requirements for Colon Cancer Screening in Medicare

David H. Howard, Gery P. Guy, Jr, and Donatus U. Ekwueme

Medicare beneficiaries incur out-of-pocket costs for polypectomies and colonoscopies after a positive fecal occult blood test. We estimate Medicare spending will increase by \$48 million annually if Medicare waives cost-sharing requirements for these services.

Published online 9 October 2014

3853 The Changing Landscape of Phase II/III Metastatic NSCLC Clinical Trials and the Importance of Biomarker Selection Criteria

Ryan D. Gentzler, Sarah E. Yentz, Melissa L. Johnson, Alfred W. Rademaker, and Jyoti D. Patel

ASCO abstracts for NSCLC trials over the last 11 years have shown an increasing rate of positive PFS and OS outcomes. Molecular biomarker and histology selection criteria in trials may account for this increase in positive outcomes.

Published online 25 August 2014

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3859 Monitoring Cancer Through the Blood

Cloud P. Paweletz and Pasi A. Jänne

Tumor biopsies remain the gold standard for the evaluation of genetic changes in tumors either at diagnosis or after treatment with targeted therapies. However, this is not always feasible and can seldom be performed more than once. Noninvasive techniques that measure the allelic burden in blood have the potential to realize genotype-directed cancer therapy. These technologies can potentially be used for noninvasive tumor genotyping and also provide an opportunity for disease monitoring. Several non-invasive genotyping technologies are currently under development and being evaluated in patients treated with targeted therapies.

See also pages 3896-901.

Cancer

Volume 120 / Issue 24
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- 3862 **KRAS Mutation in Patients Undergoing Hepatic Resection for Colorectal Liver Metastasis: A Biomarker of Cancer Biology or a Byproduct of Patient Selection?**

Kjetil Søreide, Oddvar M. Sandvik, and Jon A. Søreide

Patients with colorectal cancer have experienced remarkable progress in a range of surgical and oncologic management strategies over the past few years, with a corresponding improvement in survival. The *KRAS* mutation may be a biomarker of cancer biology and prognosis, but also reflects patient selection.

See also pages 3965-71.

Published online 25 August 2014

- 3866 **Are Patient Preferences for End-of-Life Care Socially Influenced? Examining Racial Disparities in Advance Care Planning**

Fay J. Hlubocky

Future research should continue empirical investigations into the social influences and additional factors responsible for the modification of preferences among racially/ethnically diverse patients with terminal cancer, because these factors would be informative for the development of a culturally sensitive, patient-centered advance planning intervention for such patients. Advance care planning interventions have the potential to significantly challenge current clinical and research practice paradigms pertaining to the provision of end-of-life care to terminal cancer patients, with particular relevance to racial and ethnic minorities who are disproportionately more likely to receive aggressive life-sustaining care.

See also pages 3981-6.

Published online 21 August 2014

REVIEW ARTICLES

- 3870 **Complications of Pelvic Radiation in Patients Treated for Gynecologic Malignancies**

Akila N. Viswanathan, Larissa J. Lee, Jairam R. Eswara, Neil S. Horowitz, Panagiotis A. Konstantinopoulos, Kristina L. Mirabeau-Beale, Brent S. Rose, Arvind G. von Keudell, and Jennifer Y. Wo

Modern radiotherapy techniques, including highly conformal radiation and image-guided conformal brachytherapy, may reduce the risk of radiation-related side effects. The management of side effects, including surgical and chemotherapeutic implications, is discussed.

Published online 23 July 2014

- 3884 **MYC-Associated and Double-Hit Lymphomas: A Review of Pathobiology, Prognosis, and Therapeutic Approaches**

Adam M. Petrich, Chadi Nabhan, and Sonali M. Smith

The co-presence of *MYC* and *BCL2*, termed double hit lymphomas, occurs in up to one-third of diffuse large B-cell lymphomas via immunohistochemistry and has a very poor prognosis. There is limited data on clinical management, but increased awareness of this entity will help define criteria for future clinical trial development.

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ORIGINAL ARTICLES

Disease Site

Chest and Lung Disease

- 3896 Monitoring of Epidermal Growth Factor Receptor Tyrosine Kinase Inhibitor-Sensitizing and Resistance Mutations in the Plasma DNA of Patients With Advanced Non-Small Cell Lung Cancer During Treatment With Erlotinib

Boe S. Sorensen, Lin Wu, Wen Wei, Julie Tsai, Britta Weber, Ebba Nexø, and Peter Meldgaard

Using a new method that allows for the quantification of the level of tumor DNA with epidermal growth factor receptor (EGFR) mutations in a blood sample, the authors were able to monitor the effect of the EGFR-targeting agent erlotinib in patients with lung cancer. Most interestingly, the results of the current study demonstrate that a mutation (T790M) causing erlotinib resistance can be detected in the blood up to 1 year earlier than disease progression can be identified by Response Evaluation Criteria In Solid Tumors (RECIST) criteria.

See also pages 3859-61.

Published online 7 August 2014

Gastrointestinal Disease

- 3902 Evaluation of a 4-Protein Serum Biomarker Panel—Biglycan, Annexin-A6, Myeloperoxidase, and Protein S100-A9 (B-AMP)—for the Detection of Esophageal Adenocarcinoma

Ali H. Zaidi, Vanathi Gopalakrishnan, Pashtoon M. Kasi, Xuemei Zeng, Usha Malhotra, Jeya Balasubramanian, Shyam Visweswaran, Mai Sun, Melanie S. Flint, Jon M. Davison, Brian L. Hood, Thomas P. Conrads, Jacques J. Bergman, William L. Bigbee, and Blair A. Jobe

A vertically integrated, proteomics-based biomarker discovery approach has been used successfully to develop and validate a 4-protein serum biomarker panel (biglycan, myeloperoxidase, annexin-A6, and protein S100-A9 [B-AMP]) for esophageal adenocarcinoma. Because of its ease of serum sample collection and analysis at relatively low cost, B-AMP holds significant promise for early, noninvasive detection and monitoring of esophageal adenocarcinoma.

Published online 5 August 2014

Genitourinary Disease

- 3914 Knowledge of the Harms of Tobacco Use Among Patients With Bladder Cancer

Jeffrey C. Bassett, John L. Gore, Lorna Kwan, Chad R. Ritch, Daniel A. Barocas, David F. Penson, William J. McCarthy, and Christopher S. Saigal

The full impact of the diagnosis of a tobacco-related malignancy on subsequent tobacco use requires patient knowledge of association. Our study demonstrates the pivotal role of the urologist in ensuring smokers diagnosed with bladder cancer are aware of the bladder-specific harms of their tobacco use.

Contents

- 3923 Docetaxel Plus Oral Metronomic Cyclophosphamide: A Phase II Study With Pharmacodynamic and Pharmacogenetic Analyses in Castration-Resistant Prostate Cancer Patients

Lisa Derosa, Luca Galli, Paola Orlandi, Anna Fioravanti, Teresa Di Desidero, Andrea Fontana, Andrea Antonuzzo, Elisa Biasco, Azzurra Farnesi, Riccardo Marconcini, Giulio Francia, Romano Danesi, Alfredo Falcone, and Guido Bocci

The present multicenter, prospective, non-randomized phase II clinical study demonstrates that the combination of docetaxel and prednisone plus metronomic cyclophosphamide and celecoxib is effective as a first-line treatment in patients with mCRPC, and that it shows favorable toxicity. Moreover, the investigation of -1154A/G VEGF polymorphism, and of VEGF and bFGF plasma levels after the first cycle of chemotherapy suggests that these pharmacodynamic indices may be useful markers to predict a better outcome.

Published online 8 August 2014

Gynecologic Oncology

- 3932 Performance Characteristics of Screening Strategies for Lynch Syndrome in Unselected Women With Newly Diagnosed Endometrial Cancer Who Have Undergone Universal Germline Mutation Testing

Sarah E. Ferguson, Melyssa Aronson, Aaron Pollett, Lua R. Eiriksson, Amit M. Oza, Steven Gallinger, Jordan Lerner-Ellis, Zahra Alvandi, Marcus Q. Bernardini, Helen J. MacKay, Golnessa Mojtahedi, Alicia A. Tone, Christine Massey, and Blaise A. Clarke

In the current study, Lynch syndrome was identified in 6% of unselected women with endometrial cancer. Universal immunohistochemistry among patients aged <60 years was found to be the best screening strategy.

Published online 31 July 2014

Head and Neck Disease

- 3940 Phase 1 and Pharmacokinetic Study of Everolimus in Combination With Cetuximab and Carboplatin for Recurrent/Metastatic Squamous Cell Carcinoma of the Head and Neck

Nabil F. Saba, Selwyn J. Hurwitz, Kelly Magliocca, Sungjin Kim, Taofeek K. Owonikoko, Donald Harvey, Suresh S. Ramalingam, Zhengjia Chen, Jackie Rogerio, Jennifer Mendel, Scott A. Kono, Colleen Lewis, Amy Y. Chen, Kristin Higgins, Mark El-Deiry, Trad Wadsworth, Jonathan J. Beitler, Dong M. Shin, Shi-Yong Sun, and Fadlo R. Khuri

This article describes clinical, pharmacokinetic, and tissue biomarker correlative studies in a phase 1 trial of patients with recurrent or metastatic squamous cell carcinoma of the head and neck combining for the first time a platinum (carboplatin) with cetuximab and everolimus. The combination of 2 biomarkers, the p-p44/42 weighted index and the phosphorylated mammalian target of rapamycin weighted index, has a high predictive discrimination power for a clinical response (areas under the curve of 0.9583 and 0.9167, respectively). A 2-compartment mixed-effects pharmacokinetic model is consistent with previously described studies. The maximum tolerated dose of everolimus in this combination is 2.5 mg every other day. Despite the observed toxicities, this combination is associated with an encouraging response rate and progression-free survival and may deserve further investigation in a better selected population.

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Hematologic Malignancies

- 3952 IgA Kappa/IgA Lambda Heavy/Light Chain Assessment in the Management of Patients With IgA Myeloma

Eileen M. Boyle, Guillemette Fouquet, Stéphanie Guidez, Sarah Bonnet, Helene Demarquette, Remy Dulery, Charles Herbaux, Marie Pierre Noel, Salomon Manier, Suzanna Schraen, Brigitte Onraed, Jean-Luc Faucompré, Bernadette Hennache, Marie Odile Petillon, Claire Mathiot, Herve Avet-Loiseau, Thierry Facon, Stephen J. Harding, Philippe Moreau, and Xavier Leleu

The immunoglobulin (Ig) A Hevylite test is a new tool that may be used to adequately monitor patients with IgA multiple myeloma. By measuring isotype paired suppression, it offers additional prognostic information for the management of patients with IgA multiple myeloma.

Published online 12 August 2014

- 3958 Prognostic Significance of Complex Karyotype and Monosomal Karyotype in Adult Patients With Acute Lymphoblastic Leukemia Treated With Risk-Adapted Protocols

Cristina Motlló, Josep-Maria Ribera, Mireia Morgades, Isabel Granada, Pau Montesinos, José González-Campos, Pascual Fernández-Abellán, Mar Tormo, Concepción Bethencourt, Salut Brunet, Jesús-Maria Hernández-Rivas, María-José Moreno, Josep Sarrà, Eloy del Potro, Pere Barba, Teresa Bernal, Carlos Grande, Javier Grau, José Cervera, Evarist Feliu, and the PETHEMA Group, Spanish Society of Hematology

After reviewing the karyotypes of 881 adult ALL patients treated according to the protocols of the PETHEMA Group between 1993 and 2012, the complex karyotype and the monosomal karyotype did not confer worse prognosis.

Published online 12 August 2014

Hepatobiliary Disease

- 3965 KRAS Mutation Influences Recurrence Patterns in Patients Undergoing Hepatic Resection of Colorectal Metastases

Nancy E. Kemeny, Joanne F. Chou, Marinela Capanu, Alexandra N. Gewirtz, Andrea Cercek, T. Peter Kingham, William R. Jarnagin, Yuman C. Fong, Ronald P. DeMatteo, Peter J. Allen, Jinru Shia, Celina Ang, Efsevia Vakiani, and Michael I. D'Angelica

Among patients with resected colorectal liver metastases treated with adjuvant therapy, those with mutated *KRAS* appear to have significantly higher incidences of bone, brain, and lung metastases compared with patients with wild-type *KRAS*. In addition, *KRAS*-mutated patients had a worse recurrence-free survival (median, 26.4 months vs 14.5 months for patients with *KRAS* wild-type). In addition, *KRAS*-mutated patients had a worse recurrence-free survival (median, 14.5 months vs. median 26.4 months for patients with *KRAS* wild-type).

See also pages 3862-5.

Cancer

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Neuro-oncology

- 3972 **Diagnostic and Prognostic Value of Preoperative Combined GFAP, IGFBP-2, and YKL-40 Plasma Levels in Patients With Glioblastoma**

Jaime Gállego Pérez-Larraya, Sophie Paris, Ahmed Idhah, Caroline Dehais, Florence Laigle-Donadey, Soledad Navarro, Laurent Capelle, Karima Mokhtari, Yannick Marie, Marc Sanson, Khê Hoang-Xuan, Jean-Yves Delattre, and Alain Mallet

A combined profile of preoperative insulin-like growth factor-binding protein 2 (IGFBP-2), glial fibrillary acidic protein (GFAP), and chitinase-3-like protein 1 (YKL-40) plasma levels could serve as a potential diagnostic tool for patients with glioblastoma multiforme (GBM). IGFBP-2 levels appear to constitute an independent prognostic factor in patients with GBM.

Published online 19 August 2014

Discipline

Disparities Research

- 3981 **End-of-Life Treatment Preferences: A Key to Reducing Ethnic/Racial Disparities in Advance Care Planning?**

Melissa M. Garrido, Shannon T. Harrington, and Holly G. Prigerson

Patient interview data are used to demonstrate that, although patient preferences against life-prolonging care differ dramatically by race/ethnicity, they are uniformly significantly associated with do-not-resuscitate order completion rates across racial/ethnic groups of patients with advanced cancer. See also pages 3866-9.

Published online 21 August 2014

Pediatric Oncology

- 3987 **Secondary Malignant Neoplasms Among Children, Adolescents, and Young Adults With Osteosarcoma**

Jean S. Lee, Steven G. DuBois, W. John Boscardin, Rosanna L. Wustrack, and Robert E. Goldsby

As patients with osteosarcoma become long-term survivors, increasing attention has turned to the burden of late effects. Survivors of osteosarcoma are at an increased risk of secondary malignant neoplasms compared with the baseline population, with an increased risk noted among patients treated in the more recent era.

Published online 12 August 2014

Quality of Life

- 3994 **Eliminating Radiotherapy to the Contralateral Retropharyngeal and High Level II Lymph Nodes in Head and Neck Squamous Cell Carcinoma Is Safe and Improves Quality of Life**

Christopher R. Spencer, Hiram A. Gay, Bruce H. Haughey, Brian Nussenbaum, Douglas R. Adkins, Tanya M. Wildes, Todd A. DeWees, James S. Lewis, Jr, and Wade L. Thorstad

Eliminating radiation therapy to the contralateral retropharyngeal lymph nodes and contralateral high level II lymph nodes in the clinically uninvolved neck does not increase the risk of recurrence in these areas. Limiting radiation treatment volume, as such, translates into improved patient-reported quality of life.

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- 4003 Charlson Score and Competing Mortality
Michael Froehner, Rainer Koch, and Manfred P. Wirth
Published online 10 September 2014
- 4003 Reply to Charlson Score and Competing Mortality
Timothy J Daskivich, Mark S. Litwin, and Christopher Saigal
Published online 10 September 2014
- 4004 In-Bag Morcellation for Presumed Myoma Retrieval at Laparoscopy
Giorgio Bogani, Maurizio Serati, Stefano Uccella, and Fabio Ghezzi
Published online 7 August 2014
- 4005 Reply to In-Bag Morcellation for Presumed Myoma Retrieval at Laparoscopy
Suzanne George
Published online 7 August 2014
- 4005 Magnetic Resonance Imaging-Based Diagnosis of Progressive Multifocal Leukoencephalopathy in a Patient With Non-Hodgkin Lymphoma After Therapy With Cyclophosphamide, Doxorubicin, Vincristine, Prednisone, and Rituximab
Delia Dima, Ciprian Tomuleasa, Alexandru Irimie, Ioan-Stefan Florian, Bobe Petrushev, Ioana Berindan-Neagoe, and Andrei Cucuianu
Published online 13 August 2014
- 4006 Reply to Magnetic Resonance Imaging-Based Diagnosis of Progressive Multifocal Leukoencephalopathy in a Patient With Non-Hodgkin Lymphoma After Therapy With Cyclophosphamide, Doxorubicin, Vincristine, Prednisone, and Rituximab
Charles L. Bennett, Scott D. Newsome, and Kenneth R. Carson
Published online 13 August 2014
- 4007 Poverty and Lung Cancer Incidence
Steven Lehrer and Kenneth E. Rosenzweig
Published online 5 August 2014

INFORMATION ITEM

- 4009 Thanks to Authors and Peer Reviewers
(available online at <http://www.cancerjournalonline.com>)

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i News

iii In the Literature

ARTICLES AND COMMENTARIES

1657 Virologic Resistance Analysis From a Phase 2 Study of MK-5172 Combined With Pegylated Interferon/Ribavirin in Treatment-Naive Patients With Hepatitis C Virus Genotype 1 Infection

Anita Y. M. Howe, Stuart Black, Stephanie Curry, Steven W. Ludmerer, Pong Liu, Richard J. O. Barnard, William Newhard, Peggy M. T. Hwang, David Nickle, Christopher Gilbert, Luzelena Caro, Mark J. DiNubile, and Niloufar Mobashery

In a dose-escalating phase 2 trial, we characterized baseline and emergent hepatitis C variants in treatment-naïve noncirrhotic patients given MK-5172 (100-800 mg/day) plus pegylated interferon alfa/ribavirin.

1666 Infrequent Development of Resistance in Genotype 1-6 Hepatitis C Virus-Infected Subjects Treated With Sofosbuvir in Phase 2 and 3 Clinical Trials

Evgenia S. Svarovskaia, Hadas Dvory-Sobol, Neil Parkin, Christy Hebner, Viktoria Gontcharova, Ross Martin, Wen Duiyang, Bin Han, Simin Xu, Karin Ku, Sophia Chiu, Edward Gane, Ira M. Jacobson, David R. Nelson, Eric Lawitz, David L. Wyles, Neby Bekele, Diana Brainard, William T. Symonds, John G. McHutchison, Michael D. Miller, and Hongmei Mo

Data demonstrate a uniform susceptibility of subject-derived hepatitis C virus (HCV) to sofosbuvir, and also show that selection of sofosbuvir-resistant HCV is exceedingly rare and is associated with a significant reduction in viral fitness.

1675 Editorial Commentary: Barrier to Resistance: Lessons From 2 Direct-Acting Hepatitis C Virus Inhibitors, MK-5172 and Sofosbuvir

Xiao Tong and Ann D. Kwong

1678 Hepatitis C Virus (HCV) Antibody Dynamics Following Acute HCV Infection and Reinfection Among HIV-Infected Men Who Have Sex With Men

Joost W. Vanhommerig, Xiomara V. Thomas, Jan T. M. van der Meer, Ronald B. Geskus, Sylvia M. Bruisten, Richard Molenkamp, Maria Prins, and Janke Schinkel; for the MOSAIC (MSM Observational Study for Acute Infection with hepatitis C) Study Group

Hepatitis C virus (HCV) antibody dynamics were studied following acute HCV infection among 63 HIV-infected men who have sex with men. Seroreversion was common after reaching sustained virologic response. Following reinfection, antibody responses were comparable to those during primary infection.

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1686 Current Practices of Screening for Incident Hepatitis C Virus (HCV) Infection Among HIV-Infected, HCV-Uninfected Individuals in Primary Care

J. Morgan Freiman, Wei Huang, Laura F. White, Elvin H. Gang, Christopher B. Hurt, Lynn E. Taylor, E. Turner Overton, Edward R. Cachay, Mari M. Kitahata, Richard D. Moore, Benigno Rodriguez, Kenneth H. Mayer, and Benjamin P. Linaas

We examined hepatitis C virus screening among HIV-infected patients enrolled in care at 7 US sites between 2000 and 2011. While there is a trend toward more frequent screening over time, it remains variable among sites and high-risk MSM are screened infrequently.

1694 Editorial Commentary: Acute Hepatitis C Virus Infection in HIV-Infected Men Who Have Sex With Men: Should We Change Our Screening Practice?

Thomas Reiberger

1696 Serum Galactomannan-Based Early Detection of Invasive Aspergillosis in Hematology Patients Receiving Effective Antimold Prophylaxis

Rafael F. Duarte, Isabel Sánchez-Ortega, Isabel Cuesta, Montserrat Aman, Beatriz Patiño, Alberto Fernández de Sevilla, Carlota Gudiol, Josefina Ayats, and Manuel Cuenca-Estrella

Low pretest risk of invasive aspergillosis renders serum galactomannan screening unreliable in asymptomatic patients undergoing effective prophylaxis (test results always negative or false positive). However, it remains useful for diagnosis of patients with a clinical suspicion of invasive fungal disease.

1703 Editorial Commentary: Galactomannan Testing During Mold-Active Prophylaxis

Oliver A. Cornely

1705 A Comparison of Lyme Disease Serologic Test Results From 4 Laboratories in Patients With Persistent Symptoms After Antibiotic Treatment

Brian A. Fallon, Martina Pavlicova, Samantha W. Coffino, and Carl Brenner

In patients with posttreatment Lyme syndrome, rates of positive serologic test results were generally similar among a university laboratory, a commercial laboratory, and 2 Lyme specialty laboratories, although interlaboratory variability was high and the IgM Western blot performed poorly.

1711 Editorial Commentary: Comparison of Lyme Disease Serologic Assays and Lyme Specialty Laboratories

Raymond J. Dattwyler and Paul M. Aramboldi

1714 A Randomized, Open-Label Clinical Study of Combined Pegylated Interferon Alfa-2a (40KD) and Entecavir Treatment for Hepatitis B "e" Antigen-Positive Chronic Hepatitis B

Qing Xie, Huijuan Zhou, Xuefan Bai, Shuhuan Wu, Jian-Jie Chen, Jifang Sheng, Yao Xie, Chengwei Chen, Henry Li-Yuen Chan, and Mianzhi Zhao

In hepatitis B "e" antigen-positive patients with chronic hepatitis B, peginterferon alfa-2a (peg-IFN) plus entecavir, either prior to or during 48 weeks of peg-IFN therapy, did not show superiority for off-treatment response compared with peg-IFN monotherapy.

1724 Near-Elimination of Otitis Media Caused by 13-Valent Pneumococcal Conjugate Vaccine (PCV) Serotypes in Southern Israel Shortly After Sequential Introduction of 7-Valent/13-Valent PCV

Shalom Ben-Shimol, Noga Givon-Lavi, Eugene Leibovitz, Simon Raiz, David Greenberg, and Ron Dagan

Shortly after sequential introduction of 7- and 13-valent pneumococcal conjugate vaccines (PCV7/PCV13), rates of pneumococcal and overall otitis media from which middle ear fluid culture was obtained were markedly reduced in children <2 years, resulting in near-elimination of PCV13 serotypes.

1733 A Breath Fungal Secondary Metabolite Signature to Diagnose Invasive Aspergillosis

Sophia Koo, Horatio R. Thomas, S. David Daniels, Robert C. Lynch, Sean M. Fortier, Margaret M. Shea, Preshious Rearden, James C. Cornelli, Lindsey R. Baden, and Francisco M. Marty

In this assessment of volatile *Aspergillus* metabolites in the breath of 64 patients with suspected fungal pneumonia, a secondary metabolite signature of α -trans-bergamotene, β -trans-bergamotene, a β -vatinene-like sesquiterpene, or trans-geranylacetone identified patients with invasive aspergillosis with 94% sensitivity and 93% specificity.

1741 Antimicrobial Lock Solutions as a Method to Prevent Central Line-Associated Bloodstream Infections: A Meta-analysis of Randomized Controlled Trials

Ioannis M. Zacharioudakis, Fainareti N. Zervou, Marios Arvanitis, Panayiotis D. Ziakas, Leonard A. Mermel, and Eleftherios Mylonakis

Antimicrobial lock solutions are effective in preventing catheter-associated bloodstream infections and their effect is additive to standard prevention measures. Nonantibiotic antimicrobial solutions are equally effective to antibiotic solutions and their use may have a lower associated risk of antibiotic resistance.

1750 Outbreak of *Trichinella spiralis* Infections Associated With a Wild Boar Hunted at a Game Farm in Iowa

Stacy M. Holzbauer, William A. Agger, Rebecca L. Hall, Gary M. Johnson, David Schmitt, Ann Garvey, Henry S. Bishop, Hilda Rivera, Marcos E. de Almeida, Dolores Hill, Bert E. Stromberg, Ruth Lynfield, and Kirk E. Smith

We investigated a trichinellosis outbreak associated with wild boar consumption. The index patient sought healthcare multiple times before being diagnosed. Targeted education of hunters and consumers handling wild game or free-range pork, owners of game farms, and clinicians is warranted.

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BRIEF REPORT

1757 Chronic Hepatitis B Virus Coinfection Is Associated With Renal Impairment Among Zambian HIV-Infected Adults

Aggrey Mweemba, Arianna Zanolini, Lloyd Mulenga, Drew Emge, Benjamin H. Chi, Gilles Wandeler, and Michael J. Vinikoor

INVITED ARTICLE

1761 CLINICAL PRACTICE

Use of Procalcitonin in Patients With Various Degrees of Chronic Kidney Disease Including Renal Replacement Therapy

Eddie Grace and R. Mackenzie Turner

This review provides guidance for the use of procalcitonin as a biological marker for infection in patients with acute and chronic renal failure, including patients on various forms of renal replacement therapy, in an effort to safely decrease antibiotic use.

HIV/AIDS

1768 Telaprevir for HIV/Hepatitis C Virus–Coinfected Patients Failing Treatment With Pegylated Interferon/Ribavirin (ANRS HC26 Telaprevir): An Open-Label, Single-Arm, Phase 2 Trial

Laurent Cotte, Joséphine Braun, Caroline Lescoux-Combe, Corine Vincent, Marc-Antoine Valantin, Philippe Sogni, Karine Lacombe, Didier Neau, Hugues Aumaitre, Dominique Batisse, Pierre de Truchis, Anne Gervais, Christian Michelet, Philippe Morlat, Daniel Vittecoq, Isabelle Rosa, Inga Bertucci, Stéphane Chevaliez, Jean-Pierre Aboulker, and Jean-Michel Molina; for the French National Agency for Research on AIDS and Viral Hepatitis (ANRS) HC26 Study Group

Retreatment with telaprevir, pegylated interferon, and ribavirin resulted in an 80% sustained virological response rate in HIV/hepatitis C virus–coinfected patients, despite 20% of patients discontinuing treatment for adverse events and 70% requiring erythropoietin, blood transfusion, or ribavirin dose reduction.

1777 Editorial Commentary: Does HIV Remain a Risk Factor for Achieving Sustained Virologic Response Under Direct Acting Antiviral–Based Modern Hepatitis C Virus Therapy?

Jürgen Kurt Rockstroh

1779 Increased Coronary Vessel Wall Thickness in HIV-Infected Young Adults

Khaled Z. Abd-Elmoniem, Aylin B. Unsal, Sarah Eshera, Jatin R. Matta, Nancy Muldoon, Dorothea McAreavey, Julia B. Purdy, Rohan Hazra, Colleen Hadigan, and Ahmed M. Gharib

Young adults infected with HIV early in life have significantly thicker right coronary artery walls than controls as measured by black-blood coronary magnetic resonance imaging. Vessel wall thickening in patients correlated with length of antiretroviral exposure, smoking pack-years, and hyperlipidemia.

1787 Cross-sectional Comparison of the Prevalence of Age-Associated Comorbidities and Their Risk Factors Between HIV-Infected and Uninfected Individuals: The AGE_{IV} Cohort Study

Judith Schouten, Ferdinand W. Wit, Ineke G. Stolte, Neeltje A. Kootstra, Marc van der Valk, Suzanne E. Geerlings, Maria Prins, and Peter Reiss; for the AGE_{IV} Cohort Study Group

Age-associated comorbidities (cardiovascular and renal disease) were more prevalent among HIV-positive compared with HIV-uninfected patients. Comorbidity was associated with cardiovascular risk factors, but also with HIV infection, immunodeficiency, and, to a lesser extent, systemic inflammation and prior high-dose ritonavir use.

1798 Acquired Rifampicin Resistance in Thrice-Weekly Antituberculosis Therapy: Impact of HIV and Antiretroviral Therapy

Gopalan Narendran, Pradeep Aravindan Menon, Perumal Venkatesan, Krishnamoorthy Vijay, Chandrasekaran Padmapriyadarsini, Santhanakrishnan Ramesh Kumar, Kannabiran Perumal Bhavani, Lakshmanan Sekar, Sivaramakrishnan Narayan Gomathi, Chockalingam Chandrasekhar, Satagopan Kumar, Rathinam Sridhar, and Soumya Swaminathan

Risk factors for acquired rifampicin resistance (ARR) among tuberculosis patients on thrice-weekly antituberculosis therapy were baseline isoniazid resistance and HIV. Among HIV-infected patients, higher mycobacterial burden and lower CD4 count, but not highly active antiretroviral therapy, were significantly associated with ARR.

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1805 In Memoriam: Gene H. Stollerman

James B. Dale and Alan L. Bisno

1806 On Arsenic and Plague

Francesca Tosetti

1808 A Major Reduction in Hospital-Onset *Staphylococcus aureus* Bacteremia in Australia: A Question of Definition

Leon J. Worth, Tim Spelman, Ann L. Bull, and Michael J. Richards

1809 Reply to Worth et al

Brett G. Mitchell, Peter J. Collignon, Rebecca McCann, Irene J. Wilkinson, and Anne Wells

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1811 Radiology of HIV/AIDS: A Practical Approach

Masahiro Narita

ERRATUM

1812 Harboe ZB et al (Clin Infect Dis 2014; 59:1066–73)

ACKNOWLEDGMENTS

e165 Reviewers

ELECTRONIC ARTICLE

e172 Evaluation of Intravenous Peramivir for Treatment of Influenza in Hospitalized Patients

Menno D. de Jong, Michael G. Ison, Arnold S. Monto, Hristo Metev, Carol Clark, Brian O'Neil, Jenna Elder, Amy McCullough, Phil Collis, and William P. Sheridan

This placebo-controlled randomized clinical trial failed to demonstrate a clinical benefit of intravenous peramivir added to standard of care treatment in hospitalized patients with influenza but highlights the challenges of evaluating influenza antiviral agents in a hospital setting.

The acknowledgments and electronic article listed above are freely available in this issue of *Clinical Infectious Diseases* online (<http://cid.oxfordjournals.org/content/current>).

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Editorial and original articles that follow are an executive summary of the conferences sponsored by the Division of Microbiology and Infectious Diseases of National Institute of Allergy and Infectious Diseases that took place in Bethesda, Maryland, during 2013.

INCLUDING PREGNANT WOMEN IN CLINICAL TRIALS OF ANTIMICROBIALS AND VACCINES

S395 Global and National Initiatives to Facilitate Studies of Vaccines in Pregnant Women

Marion F. Gruber

S400 Recruitment and Retention of Pregnant Women Into Clinical Research Trials: An Overview of Challenges, Facilitators, and Best Practices

Paula M. Frew, Diane S. Saint-Victor, Margaret Brewinski Isaacs, Sonnie Kim, Geeta K. Swamy, Jeanne S. Sheffield, Kathryn M. Edwards, Tonya Villafana, Ouda Kamagate, and Kevin Ault

S408 Maternal Immunization: Opportunities for Scientific Advancement

Richard H. Beigi, Kimberly B. Fortner, Flor M. Munoz, Jeff Roberts, Jennifer L. Gordon, Htay Htay Han, Greg Glenn, Philip R. Dormitzer, Xing Xing Gu, Jennifer S. Read, Kathryn Edwards, Shital M. Patel, and Geeta K. Swamy

S415 Assessment of Safety in Newborns of Mothers Participating in Clinical Trials of Vaccines Administered During Pregnancy

Flor M. Munoz, Leonard E. Weisman, Jennifer S. Read, George Siberry, Karen Kotloff, Jennifer Friedman, Rosemary D. Higgins, Heather Hill, Harry Seifert, and Mirjana Nesin

S428 Assessment of Congenital Anomalies in Infants Born to Pregnant Women Enrolled in Clinical Trials

Sonja A. Rasmussen, Sonia Hernandez-Diaz, Omar A. Abdul-Rahman, Leyla Sahin, Carey R. Petrie, Kim M. Keppler-Noreuil, Sharon E. Frey, Robin M. Mason, Mirjana Nesin, and John C. Carey

S437 Designing Drug Trials: Considerations for Pregnant Women

Jeanne S. Sheffield, David Siegel, Mark Mirochnick, R. Phillips Heine, Christine Nguyen, Kimberly L. Bergman, Rada M. Savic, Jill Long, Kelly E. Dooley, and Mirjana Nesin

7 Highlights

Editorial

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- 11 **Diversity in medical education: data drought and socioeconomic barriers.** Increasing the diversity of our workforce requires interventions that target and address barriers.
M. Walji

Commentary

- 13 **Identifying and treating group A streptococcal pharyngitis in children.** We need a strategy that considers safety, cost, antimicrobial resistance and physician practices.
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- 15 **If nothing happens, is everything all right? Distinguishing genuine reassurance from a false sense of security.** Amoxicillin: genuine adverse reactions may go undetected or be misclassified.
Y.K. Loke, K. Mattishent

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Research

Aspirin and Primary Prevention of Cardiovascular Events 2510

To assess whether daily low-dose aspirin reduces the incidence of cardiovascular events in patients aged 60 years and older with hypertension, dyslipidemia, or diabetes, Ikeda and colleagues randomly assigned 14 464 Japanese patients to receive either low-dose aspirin (100 mg/d) or no aspirin. The authors report that aspirin did not reduce the risk of a composite outcome of cardiovascular death, nonfatal stroke, and nonfatal myocardial infarction during a median 5-year follow-up. In an Editorial, Gaziano and Greenland discuss when aspirin should be used for prevention of cardiovascular events.

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Oral Anticoagulants and Risk of Intracranial Hemorrhage 2562

A systematic review and meta-analysis published in *JAMA Neurology* concluded that 3 novel oral anticoagulants—dabigatran, rivaroxaban, and apixaban—uniformly reduce the risk of intracranial hemorrhage when used for stroke prevention in patients with atrial fibrillation. In this From The JAMA Network article, Vespa discusses advantages and lingering concerns related to these agents.

Pustulonodular Lesion on the Nose 2564



A patient from Kentucky, whose job involved lawn mowing, presented with a 1-month history of nasal pain and swelling. On physical examination his nose was red and swollen; small pustules were present and the septum was perforated. A computed tomography scan of the chest revealed multiple bilateral nodular opacities in the lungs. What would you do next?

Quiz jama.com

From The Medical Letter: Stool DNA Test for Colorectal Cancer 2566

The US Food and Drug Administration has approved a stool DNA test to screen average-risk adults aged 50 years and older for colorectal cancer. This Medical Letter on Drugs and Therapeutics article summarizes information regarding the test components, performance characteristics, administration, and cost.

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2585 Breast Cancer Screening: Benefits and Harms

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Hypothermia in Neonatal Hypoxic Ischemic Encephalopathy 2629

Hypothermia reduces death or disability in neonatal hypoxic ischemic encephalopathy. In a randomized clinical trial that enrolled 364 full-term infants with hypoxic ischemic encephalopathy, Shankaran and colleagues found that compared with hypothermia at 33.5°C for 72 hours, longer duration (120 hours), deeper cooling (32.0°C), or both did not reduce rates of neonatal intensive care unit death. In an Editorial, Robertson and Marlow discuss hypothermia for perinatal hypoxic ischemic encephalopathy.

Editorial 2623

Author Audio Interview [jama.com](#)

Enhanced Medical Home for High-Risk Chronically Ill Children 2640

In a randomized trial that enrolled 201 children with complex chronic conditions and high health care use in the previous year, Mosquera and colleagues found that compared with usual care, an enhanced medical home—a clinic providing both primary and specialty care and features to promote prompt effective care—reduced serious illnesses and costs. In an Editorial, Perrin discusses the benefits and economics of comprehensive care for children with chronic conditions.

Editorial 2625

Author Video Interview [jama.com](#)

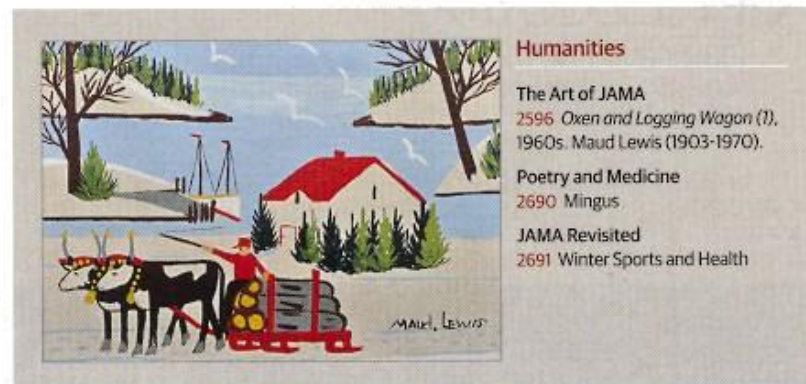
Antenatal Micronutrients, Infant Mortality: Bangladesh 2649

West and colleagues randomly assigned 44 567 pregnant women in rural Bangladesh to receive an antenatal supplement containing either 15 micronutrients or iron and folic acid alone. The authors report that all-cause infant mortality through 6 months of age did not differ by antenatal supplement type. Women who received the multiple micronutrient supplement had a non-statistically significant reduction in adverse birth outcomes.

Hospital Admissions Related to Extreme Heat 2659



To identify possible causes and risks of extreme heat-related hospital admissions among older adults, Bobb and colleagues analyzed 1999 to 2010 Medicare inpatient claims data and national daily temperature data from 1943 counties. The authors report that periods of extreme heat were associated with increased risk of hospitalization for fluid and electrolyte disorders, renal failure, urinary tract infection, septicemia, and heat stroke.



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Clinical Review & Education

Metformin in Patients With Diabetes and Kidney Disease 2668

Metformin—considered the best initial pharmacological option to manage type 2 diabetes—is contraindicated in patients with impaired kidney function because of concerns about lactic acidosis. In a systematic review of 65 articles pertaining to metformin, kidney disease, and lactic acidosis, Inzucchi and colleagues found that lactate concentrations were not substantially increased when metformin was used in patients with mild to moderate chronic kidney disease and that the incidence of lactic acidosis in metformin users was generally indistinguishable from the overall rate in patients with diabetes.

Continuing Medical Education jamanetworkcme.com

Psoriasis Patients: Treatment Satisfaction, Quality of Life 2676

An article in *JAMA Dermatology* reported high rates of treatment dissatisfaction and no treatment or undertreatment among patients with psoriasis. In this From The JAMA Network article, Mercy and colleagues discuss relationships between psoriasis treatment, outcomes, patient satisfaction, and quality of life.

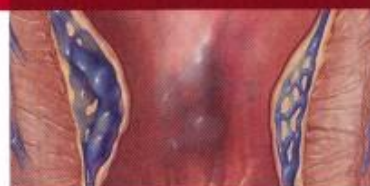
Antibiotics for Acute Bronchitis 2678

Acute bronchitis is commonly caused by viral infections; however, antibiotics are often prescribed. This JAMA Clinical Evidence Synopsis article by Smith and colleagues summarizes a Cochrane review of 17 randomized trials (5099 adult and child patients) that compared antibiotic with placebo or no treatment for acute bronchitis. Antibiotics were associated with an approximate half-day reduction in duration of cough and feeling ill but no difference in overall clinical improvement or limitations in work or other activities.

Parathyroid Hormone in the Evaluation of Hypercalcemia 2680

This JAMA Diagnostic Test Interpretation article by Cusano and Bilezikian presents the case of a 54-year-old woman found to have hypercalcemia on routine testing. The patient underwent total thyroidectomy for papillary thyroid cancer 15 years earlier. An intact parathyroid hormone level is 57 pg/mL. How would you interpret these results?

Quiz jama.com



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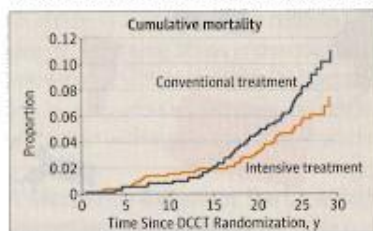
Research

Life Expectancy in Patients With Type 1 Diabetes 37

Historically, 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.

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Intensive Treatment of Diabetes and Long-term Mortality 45



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.

Editorial 35 Related Article 37

Author Video Interview jama.com

Quadrivalent HPV Vaccination and Demyelinating Diseases 54

Case reports have suggested a link between human papillomavirus (HPV) vaccination and development of demyelinating diseases. In an analysis of nationwide registry data from Denmark and Sweden—representing nearly 4 million girls and women, among whom approximately 800 000 received the quadrivalent HPV vaccine—Scheller and colleagues found no association between quadrivalent HPV vaccination and development of multiple sclerosis or other demyelinating diseases.

Bariatric Surgery and Long-term Survival 62

In a retrospective cohort study involving 2500 veterans who underwent bariatric surgery and 7462 who did not have surgery and were matched on relevant variables including age, sex, body mass index, and diabetes, Arterburn and colleagues found that patients who underwent surgery had lower rates of all-cause mortality at 5 years and up to 10 years after the procedure.

Author Audio Interview jama.com



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Clinical Review & Education

Traveler's Diarrhea

71

Acute diarrhea is the most common illness among travelers to low-income regions of the world. Based on a review of 122 articles (37 published since 2012), Steffen and colleagues discuss the etiology, risk factors, prevention, and management of traveler's diarrhea. The authors report a declining incidence of traveler's diarrhea—likely related to food safety improvements—discuss antibiotic prophylaxis, and summarize data regarding treatment choice and efficacy.

Continuing Medical Education jamanetworkcme.com

Maternal Mental Health After a Child's Diagnosis of Autism

81

An article in *JAMA Pediatrics* reported that a brief cognitive behavioral intervention decreased parenting stress and maternal depressive symptoms in the period immediately following a child's diagnosis of autism spectrum disorder. In this From The JAMA Network article, Karp and Kuo discuss extended support for parents as a component of treatment of children with autism spectrum disorder.

A Man With Extensor Surface Papules

83



A 38-year-old morbidly obese man had a 1-month history of a papular rash on the extensor surfaces of his extremities, which was associated with a burning sensation. Skin examination revealed numerous bright pink papules with a central yellow hue. What would you do next?

Quiz jama.com

An Abnormal Audiogram

85

This JAMA Diagnostic Test Interpretation article by Paul and Roland presents the case of a 35-year-old woman with progressive right-sided hearing loss—without tinnitus, vertigo, otorrhea, otalgia, or facial weakness. The patient's history was negative for ear infections, excessive noise exposure, or ear or head trauma. Otoscopic examination was normal. Tuning fork examination revealed left-sided lateralization and air greater than bone conduction, bilaterally. How would you interpret the audiogram results?



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Research

Community-Wide CVD Prevention Program Outcomes

147

Record and colleagues report results of a 40-year observational study in Franklin County, Maine—a rural, low-income community (population, 22 444 in 1970)—that involved community-wide programs targeting cardiovascular disease (CVD) risk factors and behavior change to improve health outcomes among the county residents. The authors report that compared with the rest of the Maine, hypertension and hyperlipidemia control increased and rates of hospitalization and mortality decreased among Franklin County residents from 1970 to 2010. In an Editorial, Labarthe and Stamler discuss replication of successful community-based CVD prevention programs.

Editorial 139

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Asthma and Risk of Obstructive Sleep Apnea

156

Obstructive sleep apnea is common among patients with asthma; however, it is not known whether asthma is associated with the development of obstructive sleep apnea. In a population-based prospective study that included 547 adults free of obstructive sleep apnea at baseline (1988), Teodorescu and colleagues found that the presence and duration of asthma was associated with an increased 4-year risk of new-onset obstructive sleep apnea.

Breast Cancer Stage at Diagnosis and Survival

165

In an analysis of Surveillance, Epidemiology, and End Results 18 data from 452 215 women diagnosed with invasive breast cancer from 2004 to 2011, Iqbal and colleagues examined differences in stage at diagnosis and cancer-specific survival rates by race and ethnicity. The authors report that the likelihood of diagnosis at an early stage and survival after stage I diagnosis varied by race and ethnicity, with much of the variation explained by biological differences in tumor aggressiveness. In an Editorial, Daly and Olopade discuss personalizing risk assessment and treatment to close the breast cancer survival gap.

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Anatomy of Medical Research: US and International Comparisons 174

Moses and colleagues analyzed 1994-2012 data relating to investment in medical research in the United States and globally and found that the rate of investment in the United States has declined since 2004, which contrasts with growth in research investment globally—particularly in Asia. Investment in health services research in the United States was low compared with other industries. In an Editorial, Dzau and Fineberg discuss why the United States must maintain its position as a global leader in biomedical research. An Editorial by Fontanarosa and Bauchner introduces a new JAMA series, Scientific Discovery and the Future of Medicine.

Editorial 143 and 145

Participation of Psychiatrists in Health Insurance Networks 190

An article in *JAMA Psychiatry* reported that acceptance rates of private insurance, Medicare, and Medicaid were significantly lower for psychiatrists than for physicians in other specialties in 2009-2010. This From The JAMA Network article by Cummings discusses psychiatrists' declining rates of participation in health insurance networks and implications for patient access to mental health care.

Screening for Asymptomatic Carotid Artery Stenosis 192

This JAMA Clinical Guidelines Synopsis article by Weyer and Davis summarizes the 2014 US Preventive Services Task Force guideline for carotid artery stenosis (CAS) screening in asymptomatic individuals, which recommends against screening. Guideline development included review of 56 studies relevant to the relationship between CAS screening and stroke reduction, the benefits and harms of screening, and outcomes of therapeutic interventions.

Lactate in Sepsis 194

Gomez and Kellum discuss a patient with a 5-day history of fever, cough, and malaise who presented to the emergency department in severe respiratory distress. A serum lactate level was 3.1 mmol/L (normal range, <2 mmol/L). Following intubation, initiation of antibiotic therapy, and fluid resuscitation, the lactate level normalized but then worsened to 3.0 mmol/L. How would you interpret these findings?



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Use and Outcomes of Intracytoplasmic Sperm Injection 255

Intracytoplasmic sperm injection (ICSI) is increasingly used in assisted reproduction involving patients without severe male factor infertility and without evidence of benefit compared with conventional in vitro fertilization (IVF). Boulet and colleagues assessed US trends in ICSI use in an analysis of 1996-2012 registry data from nearly 1.4 million fresh IVF cycles. The authors found that ICSI use doubled between 1996 and 2012, with the largest relative increase in cycles without a diagnosis of male factor infertility, and ICSI was not associated with improved reproductive outcomes, irrespective of a diagnosis of male factor infertility.

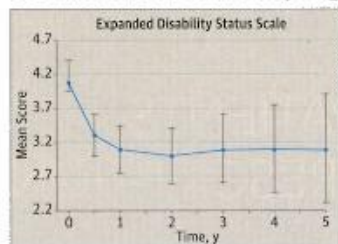
Author Video Interview jama.com

CARING FOR THE CRITICALLY ILL PATIENT

Hospitalization for Pneumonia and Subsequent Risk of CVD 264

Whether infection increases the subsequent risk of cardiovascular disease (CVD) is not clear. In an analysis of data from 2 community-based observational cohort studies (5888 participants ≥ 65 years at enrollment in one study and 15 792 participants between the ages of 45 and 64 years at enrollment in the other), Corrales-Medina and colleagues found that hospitalization for pneumonia was associated with both short- and long-term risk of incident CVD.

HSCT in Patients With Relapsing-Remitting Multiple Sclerosis 275



No therapy has demonstrated significant reversal of neurological disability in patients with multiple sclerosis. In a study involving 151 patients treated with autologous nonmyeloablative hematopoietic stem cell transplantation (HSCT) between 2003 and 2014, Burt and colleagues found that among those with relapsing-remitting multiple sclerosis, HSCT was associated with improvements in neurological disability

and quality of life during a median follow-up of 24 months. In an Editorial, Hauser discusses unresolved questions regarding the role of HSCT in relapsing-remitting multiple sclerosis.

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Surgery for Drug-Resistant Focal Epilepsy 285

Approximately 30% to 35% of patients with seizures have drug-resistant epilepsy—defined as a failure to respond to appropriate doses of 2 or more antiepileptic drugs. In a review of 55 articles reporting outcomes of resective surgery for focal, drug-resistant epilepsy, Jobst and Cascino found that surgery was more likely than continued medical therapy to reduce seizure activity. Associations of surgery with long-term cognitive, psychiatric, quality of life, and psychosocial outcomes were less clear.

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Antibiotics for Acute Otitis Media 294

Medical opinion has vacillated on the use of antibiotics for treatment of acute otitis media. A recent article in *JAMA Pediatrics* reported earlier resolution of middle ear fluid with antibiotic vs placebo treatment of acute otitis media in children. In this From The JAMA Network article, Pichichero discusses beneficial effects of antibiotics in children with acute otitis media.

Treatments for Endometriosis 296

This JAMA Clinical Evidence Synopsis by Brown and Farquhar summarizes a Cochrane review of 140 randomized trials (13 599 patients) that assessed treatments for endometriosis. Among the findings were that the levonorgestrel-releasing intrauterine device, gonadotropin-releasing hormone analogues (GnRHs), and laparoscopic ablation or excision are associated with relief of endometriosis-associated pain. Treatment with laparoscopic excision or ablation or GnRHs improves clinical pregnancy rates.

A Rash in a Patient With AIDS 298



A man with a history of mild psoriasis and a recent diagnosis of AIDS presented with an intensely pruritic and diffuse rash with thick tan crusts. Removal of a crust revealed a smooth, red, and moist undersurface. What would you do next?

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Official Journal of the
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ERRATA

2021 Talaat et al (J Infect Dis 2014; 209:1860–9)

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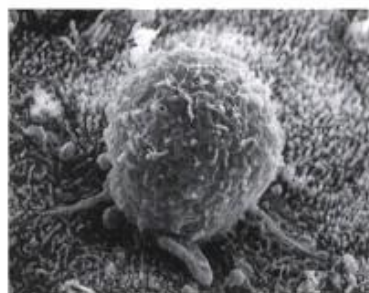
The Journal of Infectious Diseases

15 December 2014

Volume 210

Number S3

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On the Cover: Scanning electron micrograph of HIV host cell on the female genital mucosa. Courtesy of Jeffrey Pudney.

CELL-ASSOCIATED HIV TRANSMISSION ACROSS MUCOSAL SURFACES

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Volume 34

Number 1

An official publication of the European Society for Paediatric Infectious Diseases

January 2015

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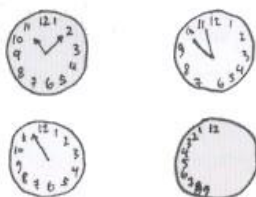
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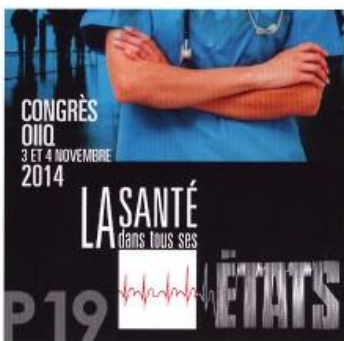
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COLLÈGE
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41 Provision of Mental Health Services as a Quality Indicator for Adolescent Substance Abuse Treatment Facilities

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49 Association of Mandated Language Access Programming and Quality of Care Provided by Mental Health Agencies

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65 Social Support and Mental Health Treatment Among Persons With PTSD: Results of a Nationally Representative Survey

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80 Animal-Assisted Therapy With Chronic Psychiatric Inpatients: Equine-Assisted Psychotherapy and Aggressive Behavior

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Sous le thème de l'identité du psychologue, la conférence matinale d'ouverture de la présidente de l'Ordre, M^{me} Rose-Marie Charest, a su réunir les psychologues autour des dimensions qui les définissent. Le lendemain, c'était au tour du Dr Jacques Forest, psychologue, de présenter ses recherches sur la motivation et d'exposer ce qui motive les psychologues.

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Retour sur la soirée festive du congrès

Ce sont 550 personnes qui étaient présentes à la soirée festive du congrès, assistant ainsi à la cérémonie de remise des prix de l'Ordre, au banquet et à une prestation de l'humoriste André Sauvé. Pour ceux qui n'y étaient pas, découvrez des extraits des discours des récipiendaires des prix.

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