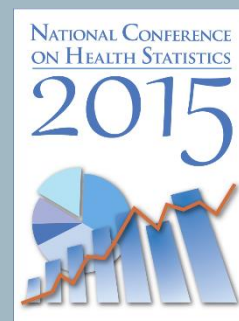


Health, United States Special Feature on Emergency Care

2015 National Conference on Health Statistics

Hashini Khajuria
Analytic Studies Branch
Office of Analysis and Epidemiology
National Center for Health Statistics

August 25, 2015



Presentation Outline

Who goes to the Emergency Department?

- By age and insurance status

When and why do people go to the Emergency Department?

- After hour visits
- Immediacy of need to be seen
- Injury visits

What happens in the Emergency Department?

- Emergency Department capacity/crowding
- Wait time
- Electronic health records
- Diagnostic and screening services

What are Emergency Department visit outcomes?

- Discharge status
- Hospital admissions

What are average per person expenses for ED visits?

Who goes to the Emergency Department?

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Soc Sci Med. 1987;25(7):825-31.

Heavy users of an emergency department--a two year follow-up study.

Genell Andrén K¹, Rosenqvist U.

PATIENT CARE

Calif. City Sees High Rate of Emergency Room Visits

BRENNA LYLES ON AUG 4, 2015

SOURCE: THE SACRAMENTO BEE

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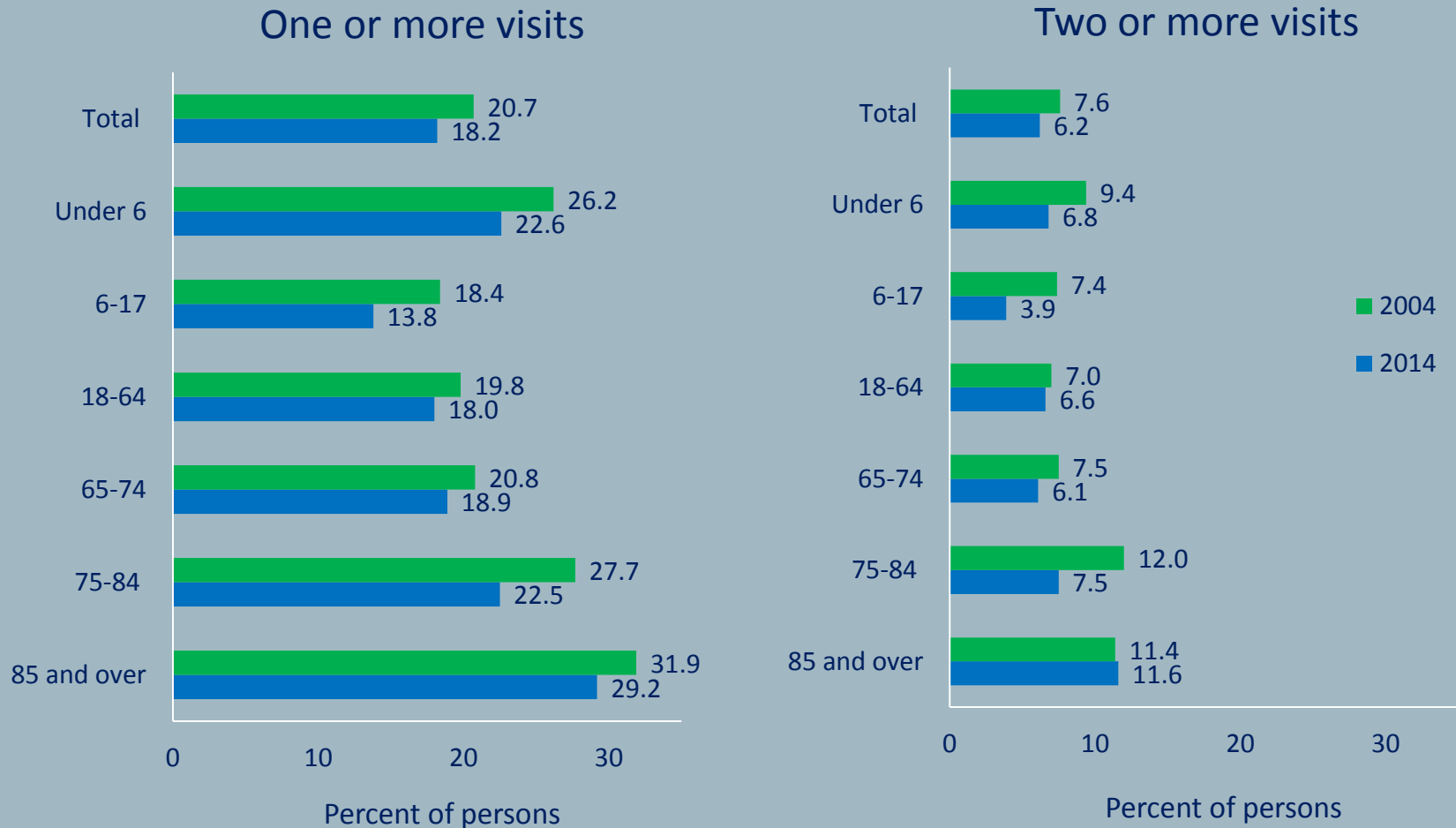
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Acad Emerg Med. 2014 Apr;21(4):365-73. doi: 10.1111/acem.12347.

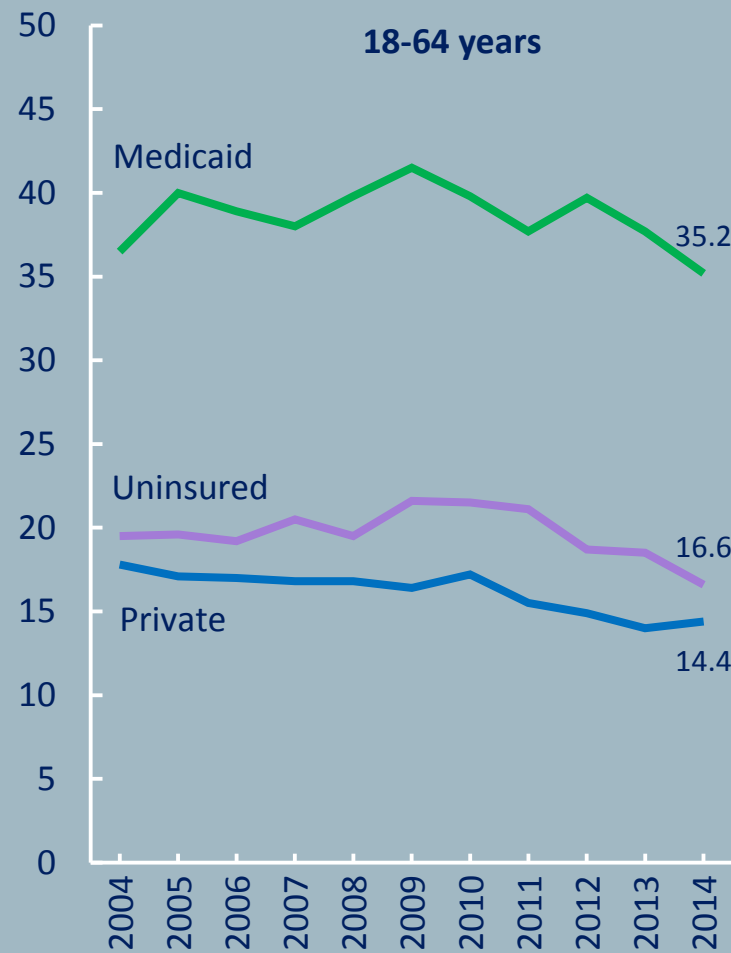
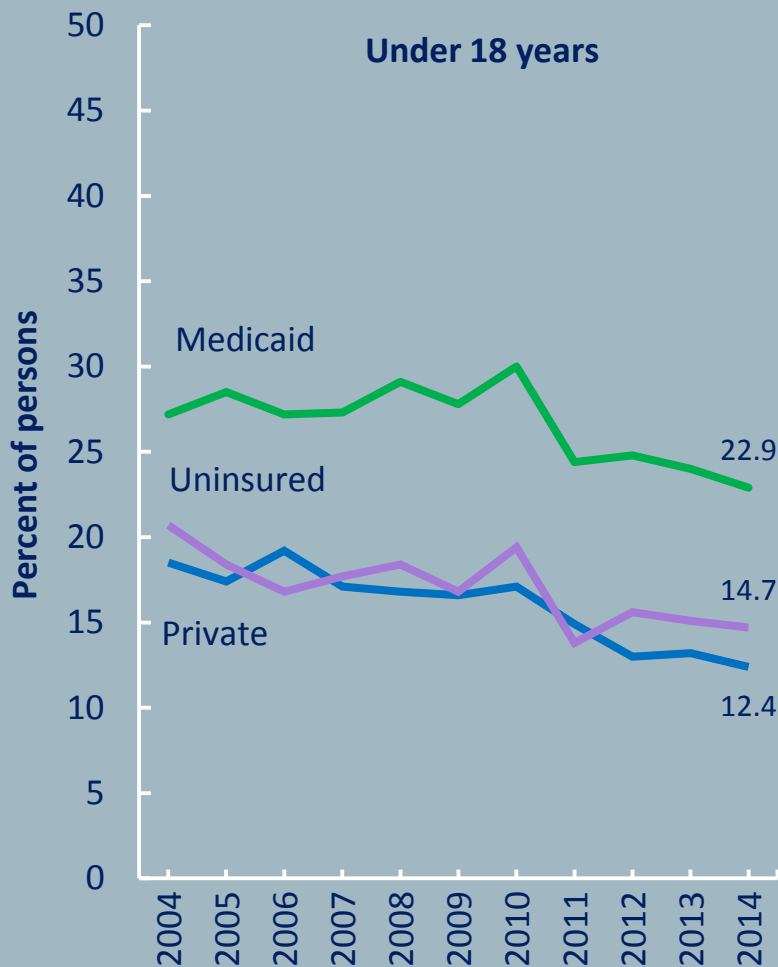
Recurrent and high-frequency use of the emergency department by pediatric patients.

Alpern ER¹, Clark AE, Alessandrini EA, Gorelick MH, Kittick M, Stanley RM, Dean JM, Teach SJ, Chamberlain JM; Pediatric Emergency Care Applied Research Network (PECARN).

Emergency Department Visits in the past 12 months, by age: United States, 2004 and 2014



One or More Emergency Department Visits in the Past 12 Months, by Age and Type of Coverage: United States, 2004-2014



When and why do people go to the Emergency Department?

MEDICAL EXAMINER

HEALTH AND MEDICINE EXPLAINED.

SEPT. 12 2008 7:06 AM

The Allure of the One-Stop Shop

The real reasons why people go to the E.R. when they shouldn't.

By Zachary Meisel and Jesse Pines

Nonurgent Use of Hospital Emergency Departments

Statement of Peter Cunningham, Ph.D.
Senior Fellow and Director of Quantitative Research
Center for Studying Health System Change (HSC)

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10 Most Common Reasons for an ER Visit

by Marianne Spoon

Bizarre ER Image Gallery

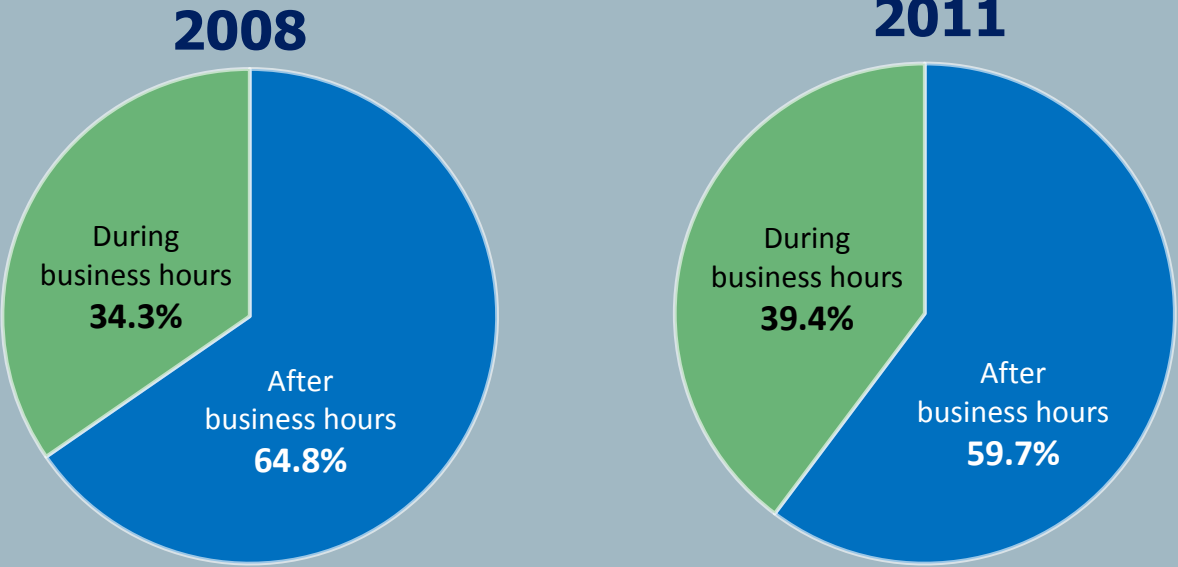
10 Most Common Reasons for an ER Visit

Emergency Rooms Continue to Serve as Patients' Primary-care Provider

Blog | March 08, 2013 | Medical Billing & Collections, Patients, Physician Compensation

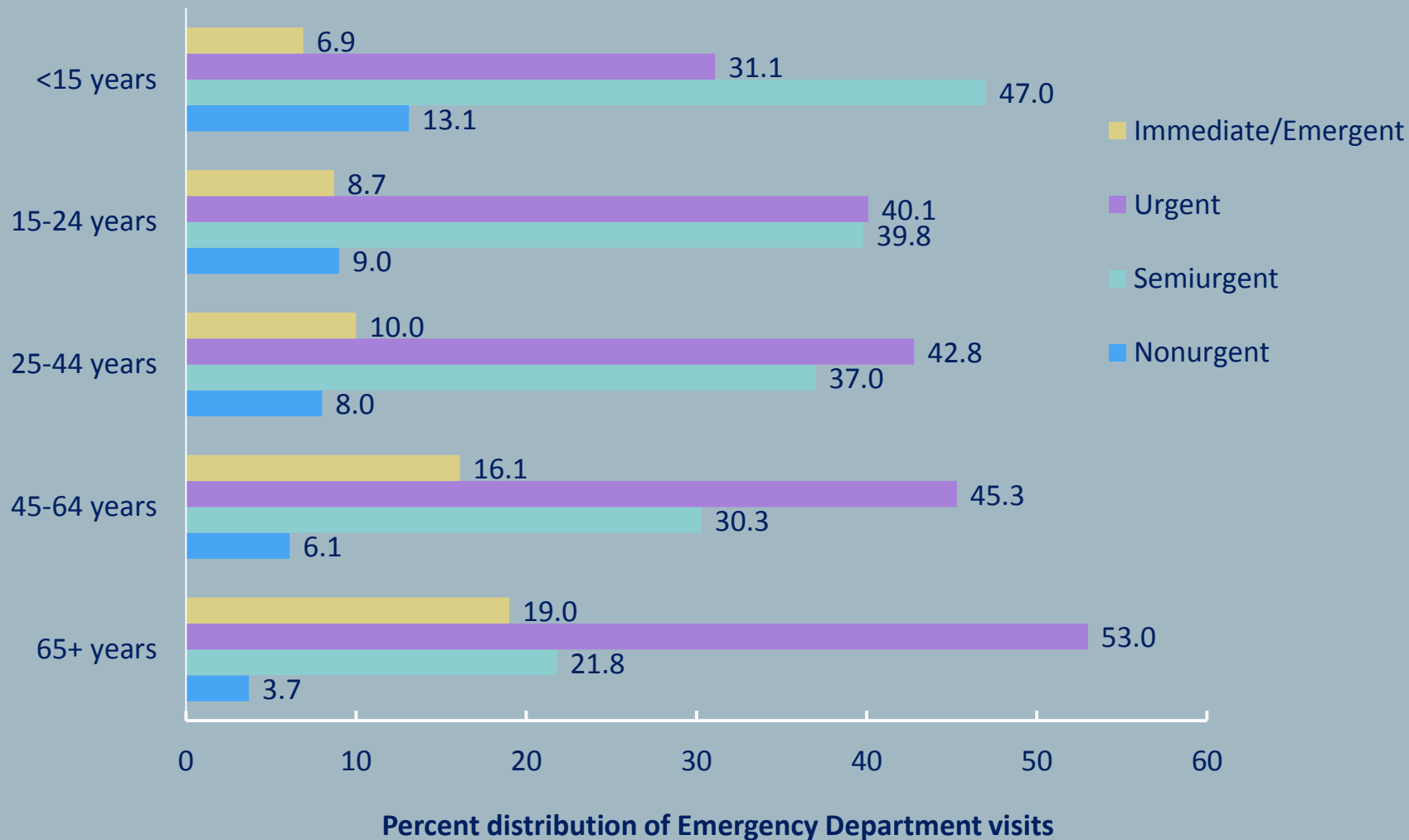
By David Doyle

When do most visits to the Emergency Department occur, all ages: United States, 2008 and 2011



NOTE: Business hours defined as Monday through Friday 8 a.m. to 5 p.m. Percent distribution of ED visits.
SOURCE: NCHS, NHAMCS 2008 and 2011 ED Summary Tables (Table 4)

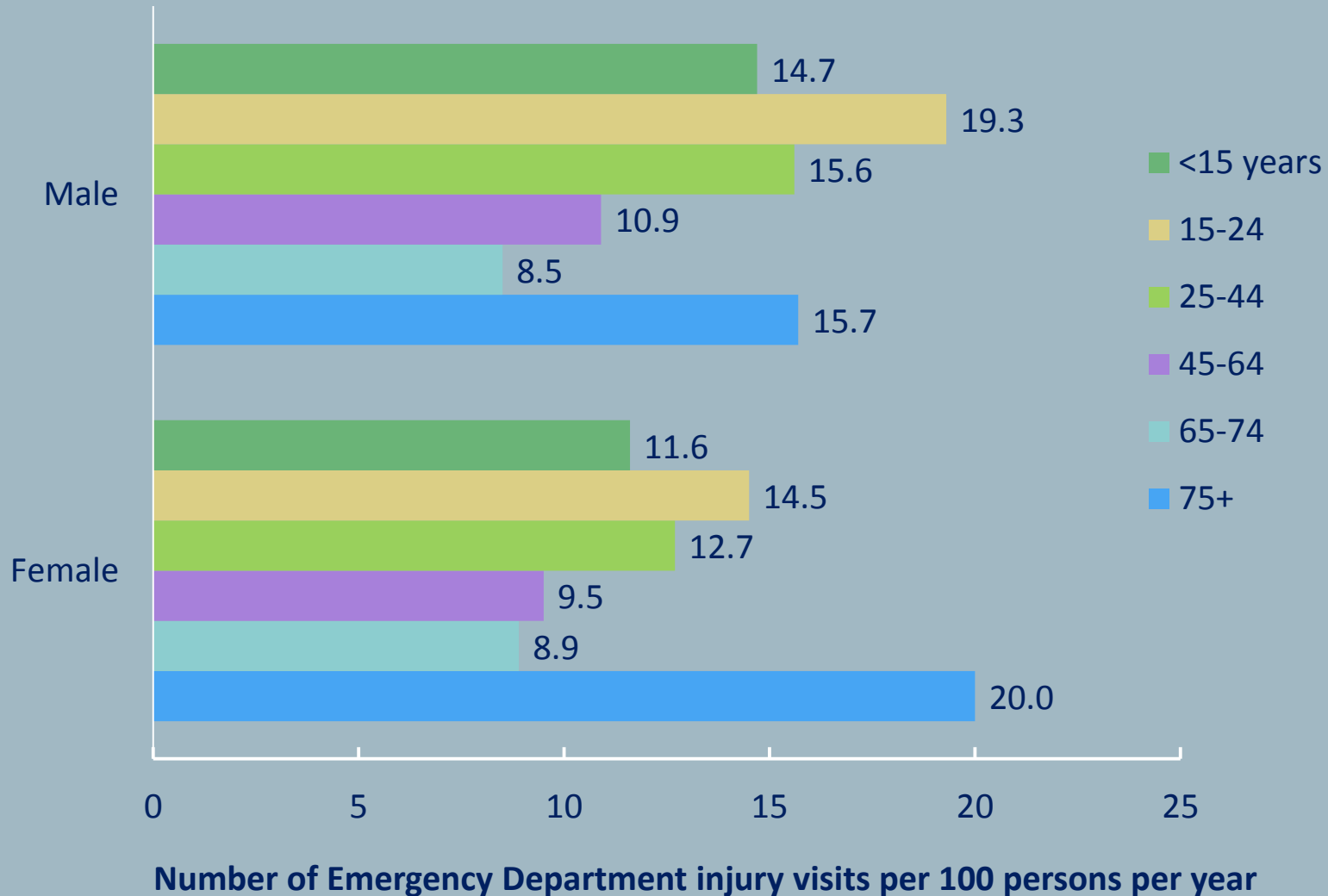
Triage Status of Emergency Department Visits, by age: United States, 2011



NOTE: Triage status was missing for 2.2% of visits.

SOURCE: NCHS, NHAMCS 2011 ED Summary Tables (Table 7)

Emergency Department Injury Visit Rates by Sex and Age: United States, 2011



What happens in the Emergency Department?

CBSNEWS Video US World Politics Entertainment

NEVER GIVE UP
UNTIL THEY BUCKLE UP

By CBSNEWS / CBS/AP / October 27, 2008, 9:30 AM

Hallway Beds Ease ER Overcrowding

GAO

United States Government Accountability Office
Report to the Chairman, Committee on Finance, U.S. Senate

HOSPITAL EMERGENCY DEPARTMENTS

Crowding Continues to Occur, and Some Patients Wait Longer than Recommended Time Frames

CT Scans Increase Threefold in Emergency Rooms, Raising Costs

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Ambulance Diversion, ER Crowding, and How You

Jul 7, 2011, 12:30 PM. Posted by Renee Heib

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ER Use Of CT Scans Rises Sharply, Raising Questions About Costs And Benefits

By Phil Galewitz | August 10, 2011

THE BUFFALO NEWS

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Study finds using electronic medical records in emergency room reduces unneeded lab tests, scans

Use of e-data

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The Journal of Emergency Medicine
Volume 38, Issue 2, February 2010, Pages 257-263

Computers in emergency medicine
Implementing Electronic Health Records in the Emergency Department
Daniel A. Handel, MD, MPH, Jeffrey L. Hackman, MD

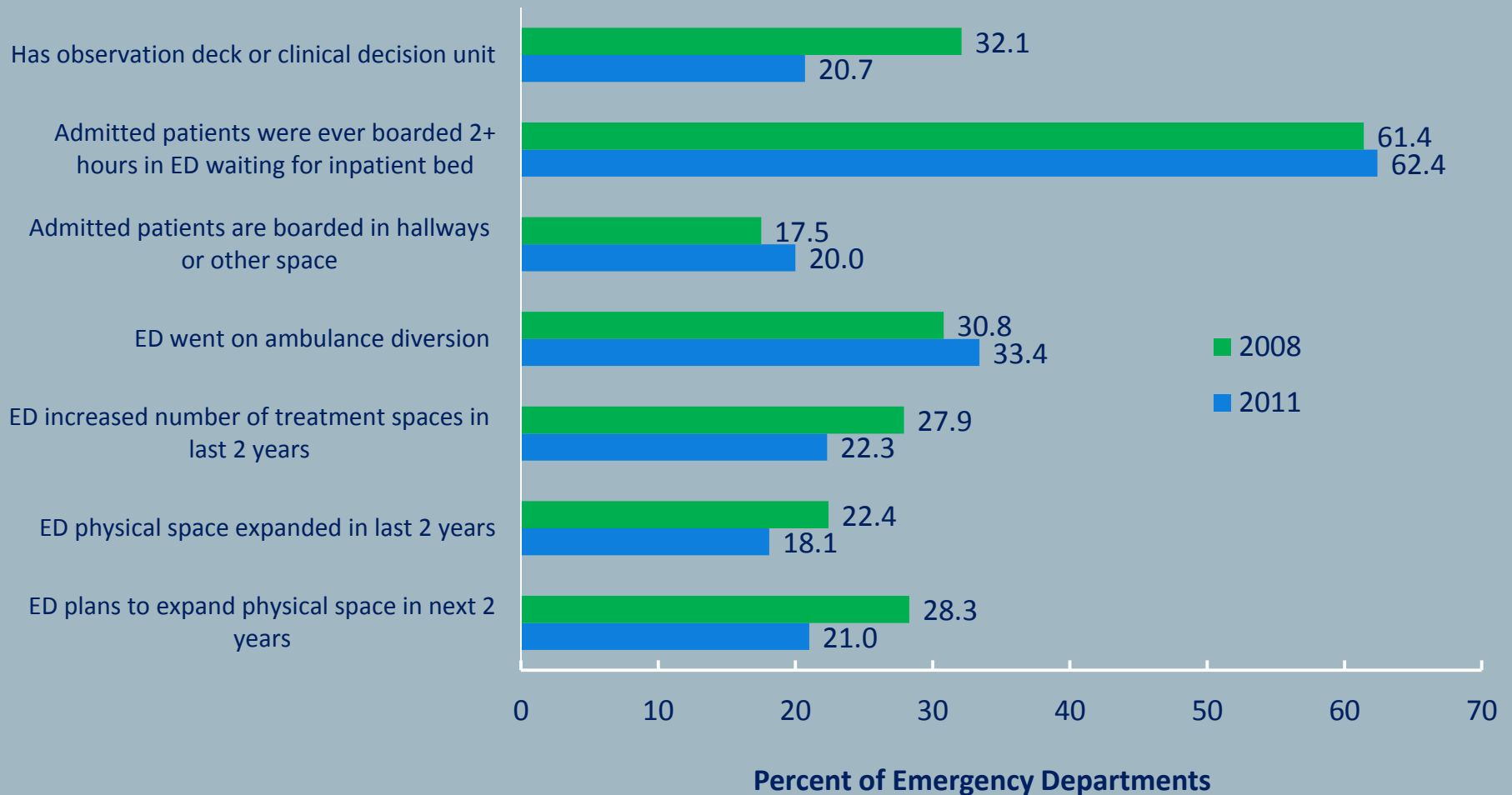
Emergency rooms increasingly crowded

MEDICAL INSIDER

Why Doctors Order Too Many Tests (It's Not Just to Avoid Lawsuits)

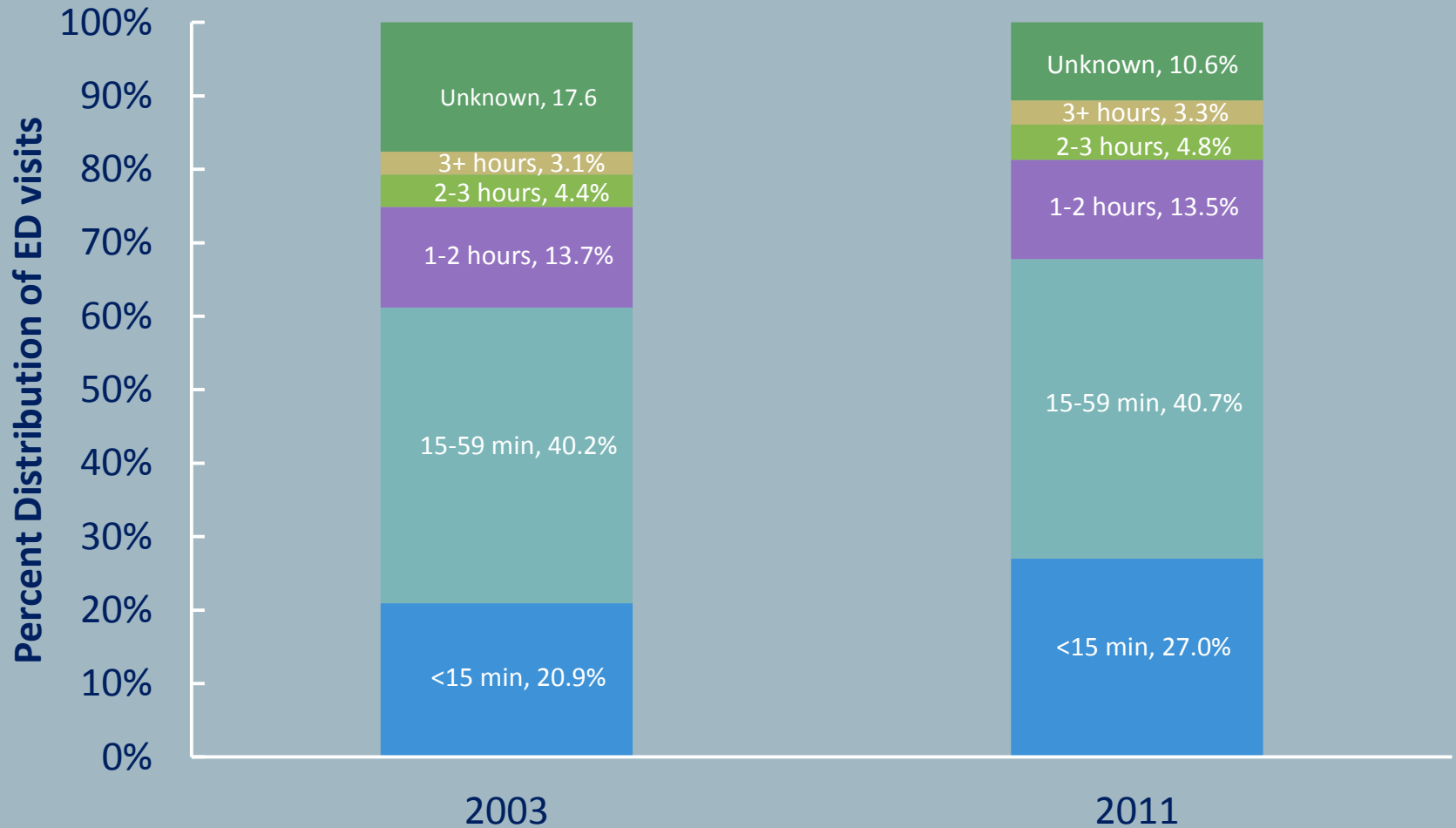
By Dr. Jesse M. Pines and Dr. Zachary F. Meisel | Friday, Feb. 25, 2011

Emergency Department Capacity, all ages: United States, 2008 and 2011



SOURCE: NCHS, NHAMCS 2008 and 2011 ED Summary Tables (Tables 26 and 27)

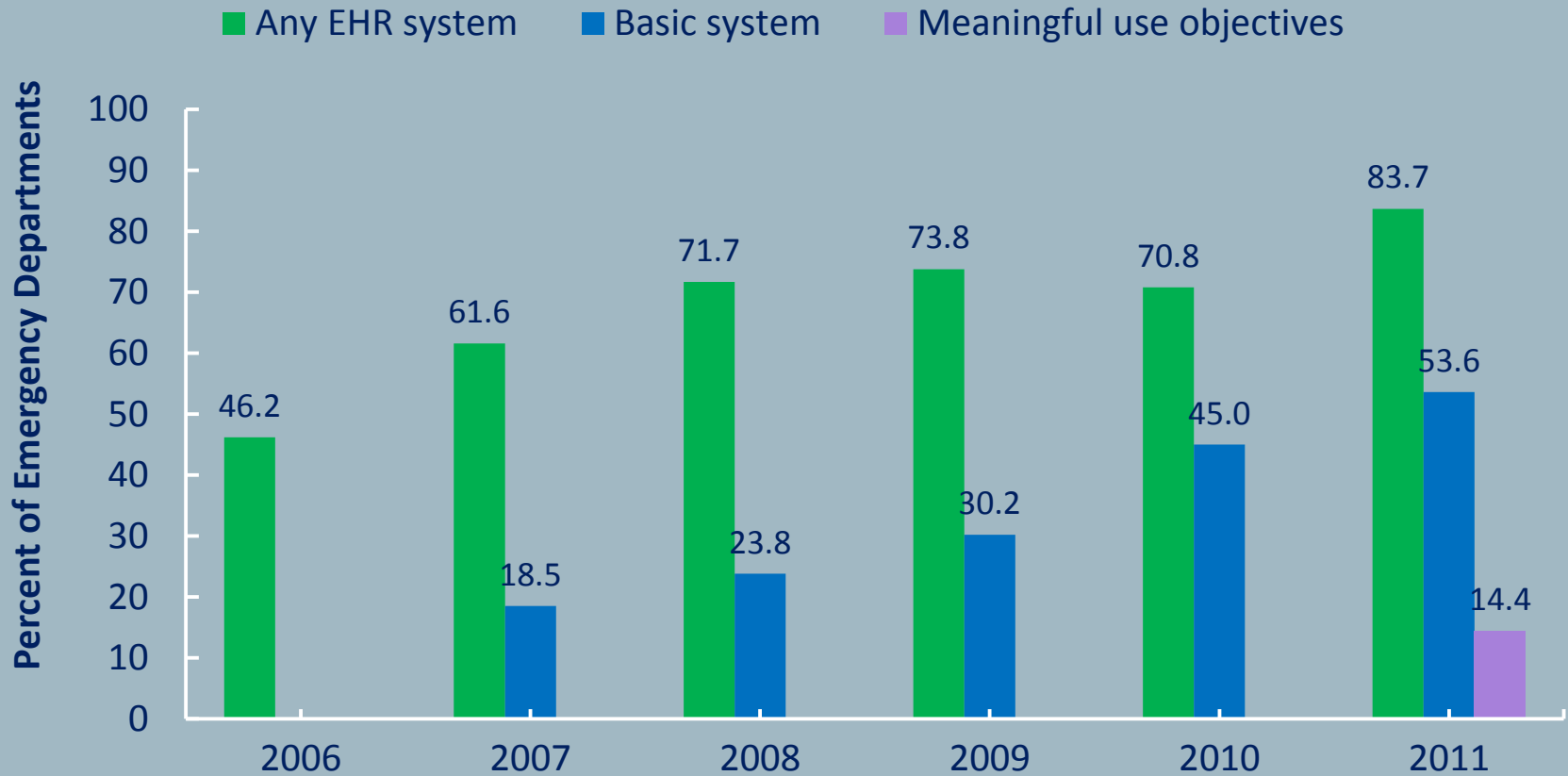
Time Spent Waiting to See a MD, DO, PA, or NP, all ages: United States, 2003 and 2011



NOTE: Percent distribution of emergency department visits. Unknown time includes n/a and blank responses.

SOURCE: NCHS, NHAMCS 2003 ED Report (Table 5); 2011 ED Summary Tables (Table 4)

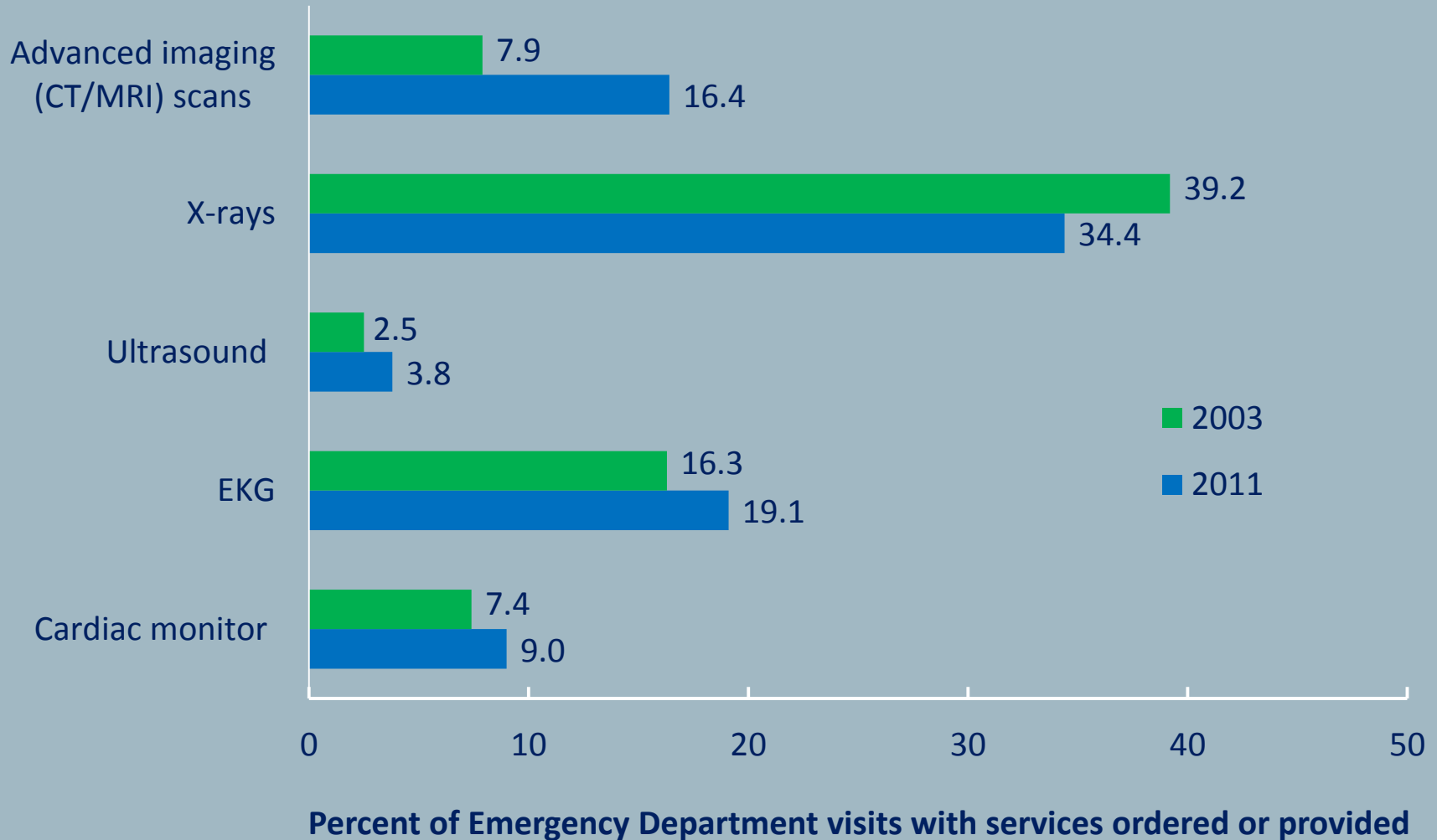
Hospital Emergency Departments with an Electronic Health Record (EHR) system: United States, 2006-2011



NOTE: "Any EHR system" is a medical or health record system that is either all or partially electronic. "Basic system" has all of the following functionalities: patient history and demographics, patient problems lists, physician clinical notes, patients' medications and allergies, computerized orders for prescriptions, and ability to view laboratory and imaging results electronically. Estimates for a basic system prior to 2007 were not comparable. The HITECH Act of 2009 gave hospitals incentives to adopt EHR systems, by meeting standards of "meaningful use" - 2011 is the year with the most complete data on meeting objectives for demonstrating meaningful use.

SOURCE: NCHS, Data Brief Eric Jamoom, Esther Hing <http://www.cdc.gov/nchs/data/databriefs/db187.htm>

Emergency Department Visits with Diagnostic and Screening Services Ordered or Provided During the Visit, all ages: United States, 2003 and 2011



SOURCE: NCHS, NHAMCS 2003 ED Report (Table 15), 2011 ED Summary Tables (Table 18)

What are Emergency Department Visit Outcomes?

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US National Library of Medicine
National Institutes of Health

PubMed

Abstract

Ann Emerg Med. 1993 Mar;22(3):560-7.

Follow-up compliance after emergency department evaluation.

Magnusson AR¹, Hedges JR, Vanko M, McCarten K, Moorhead JC.

Improving the Emergency Department Discharge Process: Environmental Scan Report

Prepared for:
Agency for Healthcare Research and Quality

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J Gen Intern Med. 2005 Oct; 20(10): 938-942.
doi: [10.1111/j.1525-1497.2005.0216_1.x](https://doi.org/10.1111/j.1525-1497.2005.0216_1.x)

BRIEF REPORT: Factors Affecting Outpatient Follow-up Compliance of Emergency Department Patients

Demetrios N Kyriacou, MD, PhD,^{1,2} Dan Handel, MD, MPH,^{1,3} Adam C Stein, BS,¹ and Regina R Nelson, RN¹

The NEW ENGLAND JOURNAL of MEDICINE

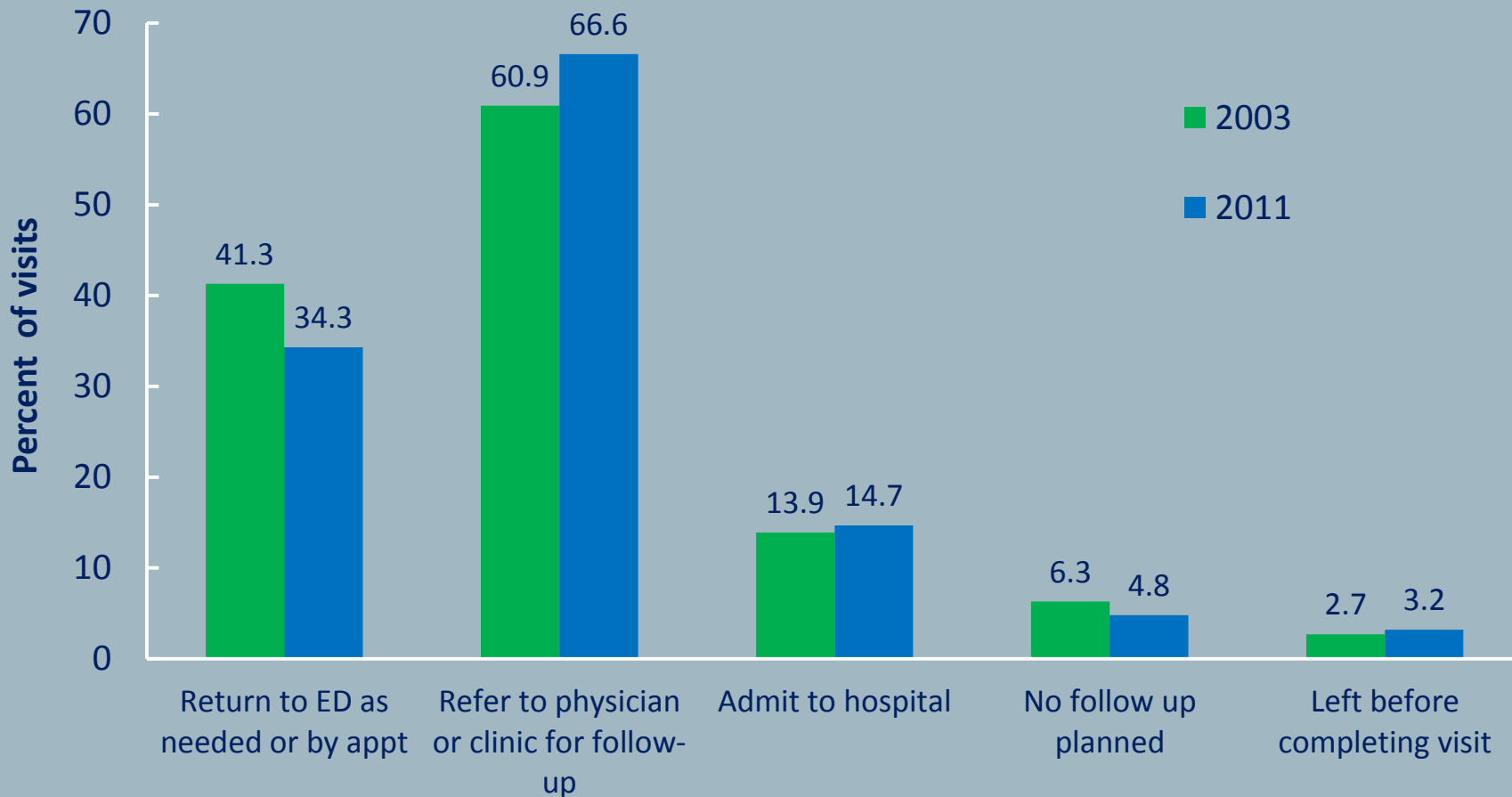
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The Growing Role of Emergency Departments in Hospital Admissions

Jeremiah D. Schuur, M.D., M.H.S., and Arjun K. Venkatesh, M.D., M.B.A.
N Engl J Med 2012; 367:391-393 | August 2, 2012 | DOI: 10.1056/NEJMp1204431

Discharge Status of Emergency Department Visits, all ages: United States, 2003 and 2011

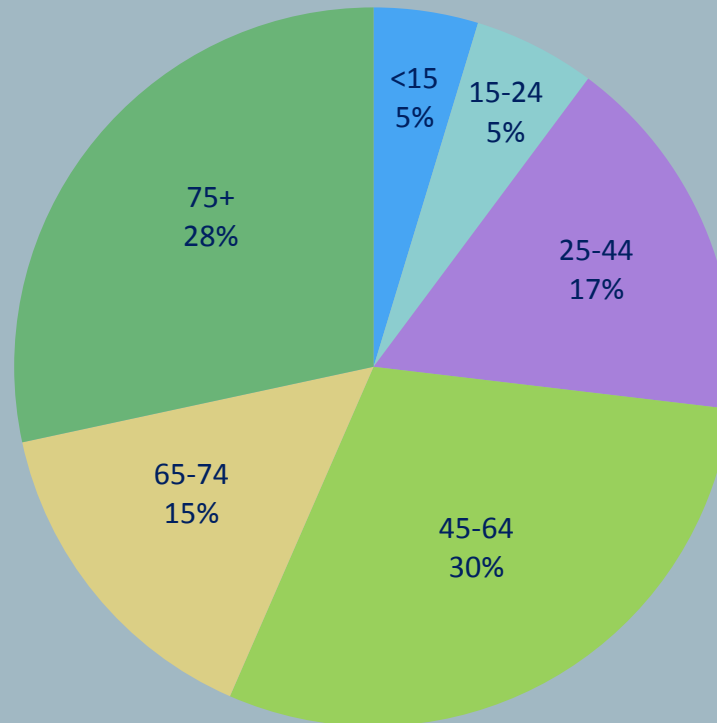


NOTE: More than one disposition may be reported per visit.

SOURCE: NCHS, NHAMCS 2003 ED Report (Table 22), 2011 ED Summary Tables (Table 24)

Emergency Department Visits Resulting in Hospital Admission, by age: United States, 2011

Admitted to hospital from the ED,
by age



What are Average Per Person Expenses for Emergency Department Visits?

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The Costs of Visits to Emergency Departments

Robert M. Williams, M.D., Dr.P.H.

N Engl J Med 1996; 334:642-646 | March 7, 1996 | DOI: 10.1056/NEJM

The Atlantic SUBSCRIBE SEARCH MENU

HEALTH

How Much Does It Cost to Go to the ER?

LINDSAY ABRAMS FEB 28, 2013

WASHINGTON **Examiner**

Emergency room visits up, despite Obamacare

By PAIGE WINFIELD CUNNINGHAM • 5/4/15 1:00 AM

Emergency Room Services, Mean Expenditure per Person with Expense, by age: United States, 2002 and 2012



NOTE: 2002 estimates adjusted to 2012 dollars using the GDP implicit price deflator (release date August 27, 2015). Expenditures are for the civilian noninstitutionalized population who had an emergency room visit.

SOURCE: Medical Expenditure Panel Survey, Agency for Healthcare Research and Quality

Future Research on Emergency Departments

- Effects of ACA on Emergency Department use
- Interventions for repeat and high users such as homeless, mentally ill, and those with chronic conditions
 - Case management
- Enhanced patient access to primary care outside of normal business hours
- Development of lower-cost care settings for urgent response
- Greater use of health information technology and care coordination

Thank you!

Health, United States:

<http://www.cdc.gov/nchs/hus.htm>

Health, United States, 2012 with Special Feature on Emergency Care:

www.cdc.gov/nchs/data/hus/hus12.pdf

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Hashini Khajuria

Office of Analysis and Epidemiology

National Center for Health Statistics

Email: hwq6@cdc.gov