CHLAMYDIA PREVENTION: CHALLENGES AND STRATEGIES FOR REDUCING DISEASE BURDEN

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> Chlamydia: Magnitude of the Problem and Opportunities for Prevention

Catherine L. Satterwhite, MSPH, MPH

> Chlamydia Prevention Challenges and Strategies to Address Them

Raul A. Romaguera, DMD, MPH

> Addressing Health System Issues, Societal and Individual Challenges

🖵 Gail Bolan, MD

> Chlamydia Prevention at the State Level: The California Experience

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CDC Partners Address Chlamydia Prevention



CHLAMYDIA: MAGNITUDE OF THE PROBLEM AND OPPORTUNITIES FOR PREVENTION



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CHLAMYDIA: MAGNITUDE OF THE PROBLEM AND OPPORTUNITIES FOR PREVENTION

- Clinical features of chlamydia and risk for adverse reproductive outcomes
- National burden and associated costs
- Chlamydia prevention interventions



Chlamydia: Clinical Manifestations

Chlamydia: Sexually transmitted infection caused by the bacterium Chlamydia trachomatis

Vast majority asymptomatic

Lower genital tract infection

- Cervicitis discharge, cervical friability
- > Urethritis dysuria, discharge

Can ascend to the upper genital tract

- Men epididymitis
- Women pelvic inflammatory disease (PID)



Female genital tract



Pelvic Inflammatory Disease (PID)

Infection/inflammation of uterus, fallopian tubes, ovaries

Clinical diagnosis imprecise: Lower abdominal pain AND uterine OR adnexal OR cervical motion tenderness

Multiple etiologies

- Chlamydia trachomatis
- > Neisseria gonorrhoeae
- Bacterial vaginosis

Symptoms can be mild; subclinical tubal infection and inflammation occur





Long-term Reproductive Complications

Tubal inflammation can result in scarring, loss of function

Long-term sequelae

- > Tubal factor infertility
- Ectopic pregnancy
- Chronic pelvic pain
- Tubal factor infertility: Inability to conceive due to fallopian tube damage



Normal tubal tissue, 1200x P

Post-PID, 1200x

Chlamydia is the leading preventable cause of tubal factor infertility



Risk for Sequelae in Women



Oakeshott et al, BMJ 2010 Weström et al, Sex Transm Dis 1992 Ness et al, Am J Obstet Gynecol 2002 Land et al, Hum Reprod Update 2010



Diagnosis and Treatment

🖵 Diagnosis

- Nucleic acid amplification tests (NAATs)
 - Sensitivity ~96%, specificity >98%
 - Specimens: Urine; vaginal, cervical, and urethral swabs

Treatment

Simple and efficacious: Single-dose oral azithromycin





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Burden of Chlamydial Infection

Most commonly reported nationally-notifiable disease

- Over 1.2 million cases reported in 2008
- Many infections not detected
- Estimated 2.8 million cases occur each year
- Direct medical costs: \$678 million/year





Chlamydia Case Report Rates by State, 2008





Burden of Infection Highest Among Sexually Active Adolescents and Young Adults







Large Racial Disparities In Chlamydial Infection



NHANES, National Health and Nutrition Examination Survey, 1999-2008 Analysis of sexually active14-39 year-olds; Sexual activity ="yes" response to "Have you ever had sex?" Sex = vaginal, anal, or oral sex



Chlamydia Prevalence in Sexually Active Females Aged 14-24 in the United States



NHANES, National Health and Nutrition Examination Survey, 1999-2008 Sexual activity ="yes" response to "Have you ever had sex?" <u>Sex = vaginal, an</u>al, or oral sex



Burden of Chlamydia-Associated Sequelae: PID

Over 750,000 cases of PID occur each year

Burden of chlamydia-related PID difficult to determine

- Diagnosis subjective, non-specific
- Multiple causes
- Proportion associated with chlamydia may vary
 - Older studies: ~1/3 of PID cases
 - May be higher now due to lower gonorrhea prevalence



Burden of Chlamydia-Associated Sequelae: Infertility

In 2002, 7.4% of married women aged 15-44 were infertile (failure to conceive ≥12 months)

- Almost 1 in 5 women aged 40-44 reported they had received a medical service for infertility
- Proportion of infertility that is tubal factor varies by clinical setting
 - Ranging from 10%-40%
 - Higher among blacks
- Costs of infertility exceed \$5 billion/year



National Survey of Family Growth, 2002 Macaluso et al, Fertility and Sterility 2008

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Rationale for Chlamydia Prevention Programs

High burden of chlamydia in young women

- Chlamydia is a major preventable cause of PID, infertility, and other adverse outcomes
 - Associated with substantial costs
- Chlamydia is easily diagnosed and treated



Chlamydia Prevention Programs

Main goal: Reduce reproductive sequelae

- Treating infected women before infection progresses (secondary prevention)
- Reducing transmission in the population (primary prevention)

Main intervention: Screening women for asymptomatic chlamydial infection



Screening Women for Chlamydia: Current Recommendations

Recommendations by CDC, United States Preventive Services Task Force (USPSTF), medical associations

Screen all sexually-active females aged <25 years annually</p>

> Screen women aged \geq 25 years if at increased risk

USPSTF: A-rated recommended preventive service

Population	Non-Pregnant Women			Pregnant Women		
	24 yrs & younger	25 yrs & older		24 yrs & younger	25 yrs & older	
	Includes adolescents	Not at increased risk	At increased risk	Includes adolescents	Not at increased risk	At increased risk
Recommendation	A Screen if Sexually Active	С	A Screen if Sexually Active	B Screen	С	B Screen



http://www.ahrq.gov/clinic/uspstf/uspschlm.htm

Screening Women for Chlamydia: Evidence

Three randomized controlled trials: Chlamydia screening can reduce incidence of PID

Seattle HMO: Women with one-time screening had >50% reduction in PID at 1 year (RR 0.44, 95% CI 0.2-0.9)

Secondary prevention benefit to infected women

In addition to potential role in primary prevention through reducing burden in population

Scholes et al, NEJM 1996 Østergaard et al, Clin Infect Dis 2000 Oakeshott et al, BMJ 2010 RR, Relative risk CI, Confidence interval



Chlamydia Prevention Programs

Main goal: Reduce reproductive sequelae

- Treating infected women before infection progresses (secondary prevention)
- Reducing transmission in the population (primary prevention)
- Main intervention: Screening women for asymptomatic chlamydial infection

Other prevention interventions

- Behavioral risk-reduction efforts
- Finding and treating male sex partners
- Screening women for repeat infection



Expedited Partner Therapy (EPT)

CDC and medical associations endorse expedited partner therapy (EPT)

EPT: Providing prescriptions or medications to the patient to take to her partner

Without examining partner first

Two RCTs: EPT useful in assuring partner treatment and reducing repeat infections



Denver "partner pack"



Schillinger et al, Sex Transm Dis 2005 Golden et al, NEJM 2005 Photo courtesy of Dr. Cornelis A. Rietmeijer, Denver Public Health Department

Re-screening After a Chlamydial Infection

Recommendations from CDC

Re-screen 3 months after initial infection

Rationale

- > Repeat infection common: Peak reinfection rate 20% at 1 year
- Repeat infections may be more harmful



Opportunities for Prevention

Large burden of chlamydia in the United States
Major preventable cause of PID and infertility
Evidence-based prevention interventions available

PREVENTION



CHLAMYDIA PREVENTION CHALLENGES AND STRATEGIES TO ADDRESS THEM



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Screening Women for Chlamydia: Current Recommendations

- Chlamydia screening recommended for sexually active females under 25 as an A-rated preventive service
- Ranked by National Commission on Prevention Priorities
 - I of the 10 most beneficial and cost-effective USPSTFrecommended preventive services
 - > Among most under-utilized (<50% women screened)</p>

Priorities Among Effective Clinical Preventive Services

Results of a Systematic Review and Analysis

Michael V. Maciosek, PhD, Ashley B. Coffield, MPA, Nichol M. Edwards, MS, Thomas J. Flottemesch, PhD, Michael J. Goodman, PhD, Leif I. Solberg, MD



USPSTF, U.S. Preventative Services Task Force Maciosek et al, Am J Prev Med 2006

History of Chlamydia Screening: The Infertility Prevention Project (IPP)

- Pilot in 1988: Detect and treat chlamydia and gonorrhea infections among young women to prevent infertility
- Screening recommendations in 1993
- Nationally implemented by 1995
 - Congressionally mandated
 - Publicly-funded family planning clinics
 - >3.5 million test results reported annually





CHLAMYDIA PREVENTION CHALLENGES AND STRATEGIES TO ADDRESS THEM

How successful are programs?

- Evaluate impact: Trends in chlamydia burden and adverse outcomes
- Evaluate implementation: Chlamydia screening coverage
- Next steps: Areas for program improvement



Chlamydia Case Rates: United States, 1989–2008



Centers for Disease Control and Prevention. Sexually Transmitted Disease Surveillance, 2008. Atlanta, GA: U.S. Department of Health and Human Services; November 2009



Assessing Chlamydia Trends: Which Data Should Be Used?

Case report data currently problematic for trends Reported chlamydia cases expected to increase as more cases are detected

Positive measure of program impact

Must rely on other data sources to assess national chlamydia trends



Other Sources for Chlamydia Prevalence Data

National Health and Nutrition Examination Survey (NHANES): Chlamydia Prevalence by Sex*, 1999-2006





Other Sources for Chlamydia Prevalence Data

National Job Training Program

- High-risk women and men, aged 16-24 years
- Screened for chlamydia at program entrance
- Prevalence decreased, 2003-2007
 - Women: 19% decrease
 - Men: 8% decrease

Infertility Prevention Project (IPP)

- > Women tested in family planning clinics, aged 15-24 years
- No change in positivity rates, 2003-2007

Chlamydia prevalence stable or decreasing, NOT increasing

NJTP Source: Satterwhite et al. Sex Transm Dis 2010;37(2):63-37 IPP Source: Satterwhite et al, unpublished data



PID: Initial Visits to Physicians' Offices by Women Aged 15-44 Years: United States, 1999–2008



IMS Health, Integrated Promotional Services, IMS Health Report, 1966-2008 Hardcopy National Disease and Therapeutic Index (NDTI) Centers for Disease Control and Prevention. Sexually Transmitted Disease Surveillance, 2008. Atlanta, GA: U.S. Department of Health and Human Services; November 2009



Assessing Adverse Outcomes: Do We Have the Appropriate Data?

🗆 PID

- No national trend data on chlamydia-associated PID
- > PID diagnosis subjective, insensitive, non-specific

Infertility

- No data on chlamydia-associated infertility
- Limited trend data on overall infertility

Ecologic comparisons

PID and infertility have multiple causes

No chlamydia-specific data available to monitor adverse outcomes



Strategies to Improve Measurement of Trends in Chlamydia Burden and Adverse Outcomes




Strategies to Improve Measurement of Trends in Chlamydia Burden and Adverse Outcomes

- Monitoring pregnant women to minimize impact of health care seeking behaviors
- Engaging with CMS to pilot implementation of Medicaid Sentinel System
- Collaborating with non-traditional partners (e.g., HMOs) to develop improved methodologies to measure trends
- Developing national action plan for prevention, detection, and management of infertility
 - Emphasis on improving infertility surveillance



How Successful Are Chlamydia Prevention Programs in Reducing Disease Burden?

- Chlamydia prevalence stable or decreasing
- Data suggest decreases in PID
- Are high-risk populations being impacted?
 - Chlamydia prevalence extremely high in young, black women

Current chlamydia prevention programs are having some impact, but not enough



CHLAMYDIA PREVENTION CHALLENGES AND STRATEGIES TO ADDRESS THEM

How successful are programs?

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Program Implementation: Chlamydia Screening Coverage

Healthcare Effectiveness Data and Information Set (HEDIS)

- Performance measurements to assess quality of care in managed care organizations (MCOs)
- > 90% of MCOs report on HEDIS measures
- Chlamydia screening measure implemented in 2000
 - Proportion of eligible women tested within calendar year





http://www.ncqa.org/Portals/0/Newsroom/SOHC/SOHC_2009.pdf

Chlamydia Screening Coverage

Percentage of Enrolled, Eligible Women Aged 16-24* Years Screened for Chlamydia, by Health Plan Type, HEDIS, 2000-2008



*16-26 years during 2000-2002, 16-25 years during 2003-2007 MMWR, April 17, 2009/58(14);362-365



Chlamydia Screening Coverage: Measurement Challenges

Coverage among health care seeking population

- Population-based screening coverage
- Addressing the challenge: develop approaches to estimate community levels of screening coverage
 - Critical for future intervention strategy research
 - Use existing data sources: reproducibility

Frequency of screening

- Annual screening recommended
- Data suggest very few women screened annually

Defining denominator: Determination of sexual activity



How Successful Are Chlamydia Prevention Programs in Implementing Interventions?

- Screening coverage among health care seeking population is low, but improving
- No national data available to evaluate other interventions
 - Partner treatment
 - Rescreening



CHLAMYDIA PREVENTION CHALLENGES AND STRATEGIES TO ADDRESS THEM

How successful are programs?

- Evaluating impact: Trends in chlamydia burden and adverse outcomes
- Evaluating implementation: Chlamydia screening coverage

Next steps: Areas for program improvement



What is the Best Strategy for Reducing Disease Burden?

Increasing screening coverage?

- Broadly
- Fargeted screening (e.g., venue-based)

Increase use of other interventions?

Combined approach?

How to allocate resources?

STRATEGY



What About Men?



Limited resources

Screening men

- No substantial secondary prevention
- Men difficult to reach due to limited health care seeking

Highest risk: Partners of chlamydia-infected females



Determining the Best Strategy for Chlamydia Prevention

Mathematical modeling

- Combination of intervention strategies may be most effective
- Increase routine screening of young, sexually-active women and increase partner notification and treatment efforts
- > Male screening: Limited impact on prevalence among women

Partner treatment interrupts transmission

Reduction in repeat infections

Partner treatment is an essential component of chlamydia prevention



Chlamydia Prevention Programs: Next Steps

- Expansion of intervention strategies
- Improving measurement of impact and implementation

Research to determine optimal program structure

- Mathematical modeling
- Chlamydia natural history
 - Chlamydia Immunology and Control Expert Advisory Meeting (April 2008)
 - Special JID issue (June 2010)

Practice-based evidence

Community-level assessments



2010; 201(Suppl 2)



ADDRESSING HEALTH SYSTEM ISSUES, SOCIETAL, AND INDIVIDUAL CHALLENGES



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Health Insurance Status of Women Aged 20-29 Years, 2008





CDC, NCHS Data Brief, No 29, February 2010

Health Systems Issues: Factors that Limit Access to Chlamydia Screening

Availability of providers

Providers' willingness to screen

Insurance payment for clinical preventive services

- Insurance coverage/adequate reimbursement
- Medicaid not required to cover preventive services for persons >21 years
 - Unless pregnant or covered by Medicaid family planning waiver

Patient utilization

- High co-pays and deductibles
- Access to confidential adolescent health services



Health System Issues: Adolescent Healthcare Visits

- More preventive services recommended for adolescents than any other age group
- Evidence not available for many clinical preventive services recommended for adolescents

Novel service delivery models are needed

- Based on scientific evidence and comparative effectiveness research
- > Taking into consideration productivity issues and patient flow



Health System Issues: Adolescents Have Few Preventive Care Visits

Adolescents in Medicaid Receiving a Well-child Check Up During a 2-year Period by Age



GAO Report, Medicaid Preventive Services, August 2009



Other Health System Issues: Study of High and Low Performing Plans

- Deductibles and co-pays are still a main barrier
- What the plans do to influence provider behaviors may not be as important as what becomes standard of practice in the community

Increasing public awareness and demand may be better strategy to influence provider behaviors

Employers' interest in covering chlamydia screening must be increased



Societal Challenges:

Providers' Knowledge, Attitudes, and Screening Practices

Primary care physicians: Limited knowledge about STDs

Only 6/10 answered correctly 75% or more of questions representing common STD scenarios

General practitioners' reasons for low screening

- Lack of information about disease rates in their community
- Belief that their patients are not at risk
- Cannot offer confidential services to adolescents
- Believe chlamydia is not an urgent medical condition; easily treated



Opportunities Offered by the Patient Protection and Affordable Care Act of 2010

- Increases access to health insurance
- Improves access to clinical preventive services
- Creates incentives to increase utilization of electronic health records
- Increases emphasis on quality of care

Societal Challenges: Stigma

Individual: Shame, fear

Stigma about STDs may influence patients' disclosure of sexual behaviors to healthcare providers

Social: People are judged or condemned

Political: Lack of support by politicians and the general public



Challenges at the Individual Level

Limited knowledge about the causes of infertility in women

Among 12-17 year olds from low-income African-American neighborhood, 58% thought that they had no control over fertility problems

Low perception of risk among adolescent females



Addressing Challenges at the Individual Level: Partnering with the Media: Get Yourself Tested

Partners

CDC, MTV, the Kaiser Family Foundation, and Planned Parenthood

🖵 The goal

Increase awareness and normalize conversations about STD prevention and sexual health among adolescents and young adults

Components

MTV. Music Television

- Public service announcements,
- Videos & "How To" segments for mobile phones
- > Website with digital toolkits, posters, banners, logos, and postcards
- Tips on ways to generate a conversation about STD testing with health care providers and with sex partners





Community Outreach



4,000 GYT kits distributed to clinics, health centers, community organizations, and others

- National Coalition of STD Directors (65 full members)
- CDC Partners (2,600+ kits distributed through 330+ health clinics)
- Planned Parenthood (840+ health centers)
- American College Health Association (115+ health centers)
- mtvU (140+ schools)

Map includes partners in the contiguous United States Additional partners in Alaska, Hawaii, and U.S. territories not shown



Collaboration with the Council of State Governments

Legislator Policy Brief on Chlamydia Screening and Treatment

- > EPT: Prescribe antibiotics to partners
- Expand screening to women receiving a pregnancy test
- Require health insurance coverage of chlamydia screening







Healthy States, Council of State Governments <u>http://www.healthystates.csg.org/NR/rdonlyres/62DCD744-4CD2-406B-8540-08C690F2493B/0/chlamydia.pdf</u>

Collaboration with Other National Organizations



National Committee of Quality Assurance

Assess chlamydia screening coverage
Develop CT screening measure for accreditation of plans



National Association of Community Health Centers

- Normalize chlamydia screening
 - Improve collaboration between centers and departments



Office of Population Affairs and Title X Regional Family Planning Training Centers

Implement Infertility Prevention Project & provider training



National Chlamydia Coalition (>40 national organizations)

- Address high burden of chlamydial infections in adolescents
- Develop tools and resources for various audiences

http://www.ncqa.org http://www.hhs.gov/opa http://www.nachc.org http://ncc.prevent.org/index.html



CHLAMYDIA PREVENTION AT THE STATE LEVEL: THE CALIFORNIA EXPERIENCE



Gail Bolan, MD *Chief, STD Control Branch* California Department of Public Health



CHLAMYDIA PREVENTION AT THE STATE LEVEL: THE CALIFORNIA EXPERIENCE

In 1997, chlamydia was the most common communicable disease reported

> Over 75% of cases were seen in the private sector

- Public and private providers were interested in developing a chlamydia prevention plan
- In 1998, the California Chlamydia Action Coalition was formed and a plan was developed
 - Successes
 - Remaining challenges and opportunities



California Chlamydia Action Coalition (1998)

State-wide public-private partnership funded by the California HealthCare Foundation

- State and local health departments
- Health care organizations
- Private providers and professional medical societies
- Family planning, school-based, and correctional programs
- Women's health and community-based organizations
- Laboratories and university researchers
- Diagnostic and pharmaceutical companies
- Policymakers and the public





California Chlamydia Prevention Program Framework (1999)



Strategic goals

- Increase access to screening
- Increase partner treatment
- Promote awareness
- Enhance health information systems



Prepared by California Department of Public Health STD Control Branch

Chlamydia Care Quality Improvement Toolbox (2001)

For health plans, medical groups and provider organizations to

- Educate physicians and patients about chlamydia screening, diagnosis, treatment, and public health laws
- Provide practice guidelines to promote compliance with chlamydia screening and treatment





California Chlamydia Prevention Program Successes

Increase access to screening

✓ Increased screening rates and NAATs utilization

Increase partner treatment

✓ First state to legalize EPT in 2001

Promote awareness

Increased public awareness

Enhance health information systems



Estimated Chlamydia Screening Coverage (HEDIS) Females 16–25 Years Old , United States and California, 1999–2008



National Committee on Quality Assurance; California DHCS Division of Medi-Cal Managed Care; Kaiser Permanente Northern CA; California DPH Office of Family Planning and STD Control Branch Family Planning, Access, Care, and Treatment



69

Family PACT Laboratory Services FY 07/08

Test Type	Test Volume	Reimbursement	% of Total Reimbursement
STD Tests	3,025,235	\$87,329,853	74.0
Chlamydia	1,063,700	\$40,074,801	34.0
Gonorrhea	1,043,638	\$38,280,447	32.4
Syphilis	423,576	\$1,960,803	4.5
Other STDs	494,321	\$1,670,748	3.1
Pap Tests	1,340,533	\$18,167,989	15.4
Pregnancy Tests	848,977	\$3,689,850	3.1
Other Lab Services	N/A	\$8,837,655	7.5
Total		\$118,025,346	100.0

Family PACT Claims Data in Annual Report, http://www.familypact.org/en/Research/reports.aspx



Partner Treatment

Expedited partner therapy (EPT) was allowable in 2001

- Sponsored by health care organizations who had no mechanisms to easily treat partners outside of the health plan
- Set forth exceptions to the laws that require examination before prescribing

Prior to 2001, traditional partner referral was used

Health department follow-up of partners was rare because of low staffing levels and large number of cases



Provider Barriers to EPT, CA 2002






Partner Management Strategies Offered in Family Planning Clinics, CA 2005-2006





BYOP, Bring your own partner

Patient-Report That Partner Received Treatment, by Partner Management Strategy Offered





BYOP, Bring your own partner

Chlamydia Community Awareness and Health Promotion Activities

- Established partnerships with youth-serving agencies
- Improved interagency communication and sharing of resources
- Co-founded the California Adolescent Sexual Health Work Group
- Developed social marketing projects
 - Youth Encouraging Safer Sex (YESS!)
 - Hookup Text Messaging
 - Youth Social Marketing Toolkit



California STD/HIV Prevention Training Center, <u>www.stdhivtraining.org</u>

Resources for Educators



Sexually Transmitted Diseases (STDs): What you need to know to stay healthy



STD 101 for Teens

California STD/HIV Prevention Training Center, www.stdhivtraining.org



Changes in Educators Confidence in Various Skills after STD Training Activities, 2009



STD Community Intervention Project on-line survey of 396 community educators serving over 200,000 youth in 11 high priority local health jurisdictions in California Prepared by California Department of Public Health STD Control Branch



Chlamydia Prevention at the State Level: Remaining Challenges

- High Medicaid reimbursement rates of NAATs screening tests
- No federal reimbursement for EPT
- Competing priorities
- Declining public health infrastructure





CDC PARTNERS ADDRESS CHLAMYDIA PREVENTION



Gale R. Burstein, MD, MPH, FAAP, FSAHM Adolescent Medicine Physician University at Buffalo Pediatrics Associates Buffalo, New York

<u>DISCLOSURE</u>: Dr. Burstein has received honoraria from Merck Inc. and GlaxoSmithKline for speaking and consultancy engagements



Strategies to Change Provider Practices to Consistently Screen for Chlamydia

- Training medical professionals
- Endorsing screening by professional medical associations
- Developing tools to facilitate office-based chlamydia screening
- Disseminating information
- Promoting quality measures to improve care of adolescents
 - NCC: New chlamydia screening measure for accreditation of commercial and Medicaid plans - effective in 2010
 - AAP, American Board of Pediatrics: Chlamydia screening quality improvement activity as part of the recertification in adolescent medicine



NCC, National Chlamydia Coalition AAP, American Academy of Pediatrics NCQA, National Committee for Quality Assurance

Collaboration with Professional Organizations and Health Plans



http://ncc.prevent.org/providers.html

Providing Confidential Sexual Health Care Services

All states and the District of Columbia currently allow minors to consent for STD diagnosis and treatment

No state requires parental consent

- An explanation of benefits (EOB) listing services rendered and reimbursed by the health plan may be sent to the primary insured
 - EOB may disclose confidential services

AAP and SAHM developed billing/coding guidance to minimize billing statement disclosures



Addressing Health Systems Barriers to Confidentiality

Tools to enhance confidential service delivery (AAP and SAHM)

"Atraumatic parentectomy"

- Disclosure of confidential services through health plan billing statements (AAP and SAHM)
- Disclosure of confidential services through billing (AAP NYS Chapter and CDC's Infertility Prevention Project in NYS)

83



Implementing Expedited Partner Therapy (EPT)

CDC partners' formal endorsement

- SAHM and AAP: Position paper supporting EPT
- Developing tools to assist states interested in removing legal and health systems barriers
 - Professional medical organizations, CDC and the Public Health Law and policy Program

Advocacy in legislative and policy development at the state level

> AAP, SAHM, and ACOG

Planning to work with CMS and HRSA to assure coverage of all EPT services in states where EPT is legal



Evolving Landscape of EPT: Legal Status at the State Level





Addressing Health Disparities of Chlamydia

NCC diverse membership attempts to partner with organizations serving minorities, women, and youth

10 small grants to develop community-level prevention approaches aimed at increasing chlamydia screening among those populations at risk





NCC, National Chlamydia Coalition

Chlamydia Prevention: Summary

- Chlamydia is a major preventable cause of infertility
 Effective prevention interventions are under-utilized
- Programs having some effect, but need to do better by
 - Increasing screening, partner treatment (EPT), and awareness
 - Reaching disproportionately-affected populations
 - Improving measurement
- Many challenges, but also opportunities
 - Progress in addressing public health, societal and individual challenges
 - Health care reform: Engagement in evolving health care delivery systems to address barriers at federal, state, and local levels



PUBLIC HEALTH GRAND ROUNDS

Office of the Director

May 20, 2010

