



Presenter Disclosures

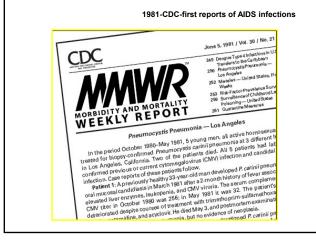
There are no disclosures for this session.

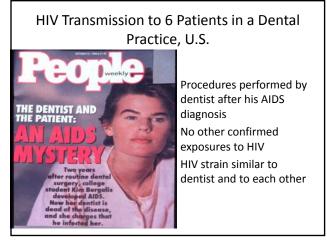




Social Justice in Oral Health: Ensuring Access to Care for People with HIV

> Helene Bednarsh, RDH, MPH Serena Rajabiun, MPH Irshad Shaikh, MD, MPH, PhD







Possible Transmission of Human Immunodeficiency Virus to a Patient during Exposure-Prone Invasive Procedures an Invasive Dental Procedure

CDC received a case report of acquired immunodaficiency syndrome (AIDS) in a young woman for whom an epidemiologic investigation had not established a source for her hun January 18, 1991 / 40(2);21-27,33

Epidemiologic Notes and Reports Update: Transmission of HIV Infection during an Invasive Dental Procedure -- Florida

procedure was previously reported in a young versus (patient A) with acquired assumed ficin spottome (ADD) (1). Patient A had so identified this factor for HW infection and was infected within ef HW closely related to this of the dentitor do terminated by virtual DAA responsing. A full investigation has identified four additional patients of the dentitor who are infected with TPV. Life June 14, 1991 / 40(23);377-381

Epidemiologic Notes and Reports Update: Transmission of HIV Infection During

Invasive Dental Procedures --- Florida veview reports from an aphicationing investigation in Plavida strongly suggested that the value of predicts A, B, and O are set of strong with the strong in sums-deficiency view (PD). (1), 1) The report densities finding that the strong strong strong strong strong strong strong particular E and G). These two particular has a definition of particular that the strong stron August 16, 1991 / 40(32);565-566

Notice to Readers Process for Identifying

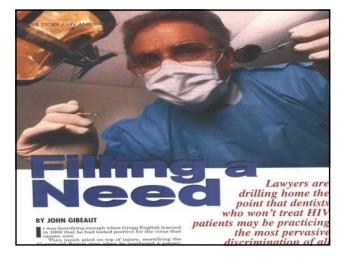
On July 12, 1991, CDC published "Recommendations for Preventing Transmit Introducted features and Hepatitic B. Virus to Patients Daring Exposure-Pr Observe the second seco

On August 7, CDC conversed an addace meeting of representatives of preferrioual societies, ins and public health and other argunizations to discuss a process to develop a but of exposure-gree

MMWR Weekly May 10, 1997 / 47(19),348-346

Update: Investigations of Patients Who Have Been Treated by HIV-Infected Health-Care Workers

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No. 97-156

Supreme Court of the United States OCTOBER TERM, 1997

RANDON BRAGDON, D.M.D., Petitioner,

V. SIDNEY ABBOTT, et al., Respondents.

On Writ of Certiorari to the United States Court of Appeals for the First Circuit

BRIEF OF THE AMERICAN MEDICAL ASSOCIATION AS AMICUS CURIAE IN SUPPORT OF RESPONDENTS

MICHAEL L. ILE LEONARD A. NELSON KARLA L. KINDERMAN AMERICAN MEDICAL ASSOCIATION 515 N. SLRIE STREET Chicago, IL 60610 (312) 464-4600

CARTER G. PHILLIPS MARK E. HADDAD * SIDLIPY & AUSTIN 1722 Eye Street, N.W. 1722 Eye Street, N.W. 1723 Eye Street, N.W. 1723 Eye Street, N.W. 1906EPH & JUSTIN 500EPH & AUSTIN 1 First National Plaza 1 First National Plaza (312) 853-7000 licus Curine

Counsel for Amicus Curiae American Medical Association February 6, 1998 * Counsel of Record WILSON - EPES PRINTING CO., INC. - 788-0088 - WARMINGTON, D.C.



Americans with Disabilities Act of 1990 Full title An Act to estabilish a clear and comprehensive prohibition of discrimination on the basis of disability Acronym ADA Enacted by the Jol 151 United States Congress Effective July 26, 1990 Public Law July 36, 1990 Stat. 101-336 Stat. July 36, 327

Ryan White Comprehensive AIDS Resources Emergency Act of 1990

To amend the Public Health Service Act to provide grants to improve the quality and availability of care for individuals and families with HIV disease, and for other purposes.

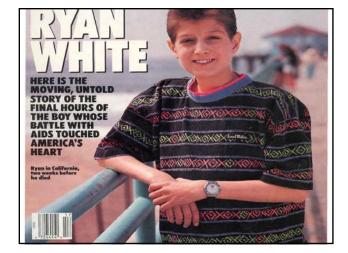
S.2240

Agreed to August 4, 1990 One Hundred First Congress of the United States of America AT THE SECOND SESSION

Begun and held at the City of Washington on Tuesday, the twenty-third day of January, one thousand nine hundred and ninety. An Act

To amend the Public Health Service Act to provide grants to improve the quality and availability of care for individuals and families with HIV disease, and for other purposes.

//Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, \backslash



SECTION 1. SHORT TITLE.

This Act may be cited as the "Ryan White Comprehensive AIDS Resources

Emergency Act of 1990".

SEC. 2. PURPOSE.

It is the purpose of this Act to provide emergency assistance to localities that are disproportionately affected by the Human Immunodeficiency Virus epidemic

and to make financial assistance available to States and other public or private nonprofit entities to provide for the development, organization, coordination and operation of more effective and cost efficient systems for the delivery of essential services to individuals and families with HIV disease



Urgent need for dental care

• Most people with HIV experience oral manifestations of the disease

HIV & Oral Health

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- Preventive care can stall progression of periodontal disease
- Preventive care/prompt treatment can reduce discomfort better nutrition, ability to take medications
- Detection of oral symptoms may serve as trigger for medical care





Unmet need is high

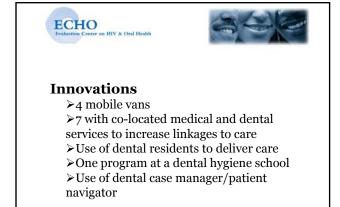
- Surgeon General's report significant oral health disparities
- Unmet oral health needs among HIV+ people are higher than for the general population (Marcus et al, 2000)
- Unmet needs for oral health care are higher than unmet needs for medical care (Helsin et al, 2001).
- 40-50% of HIV+ do not receive oral health care.



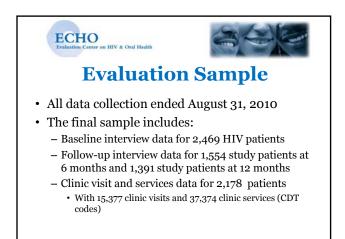


HRSA/HAB Special Projects of National Significance

- Oral Health Initiative, 2006
- SPNS demonstration project funding 15 innovative programs to expand access to HIV oral health care and one evaluation center
- Five year funding cycle
- + 8 rural programs, 7 urban programs







ECHO Evaluation Center on HIV & Oral Health



Dissatisfaction with dental appearance in an HIV+ sample: Looking beyond just looks

Jane Fox, MPH Boston University School of Public Health



- Poor oral health can interfere with building self-esteem and other types of psychological development. (Warren, 1999)
- "People who value themselves more may take more care looking after themselves" (Macgregor, Regis & Balding 1997)





The Oral Health & Confidence Connection

- Clients with low self-esteem may be less likely to comply with health advice of any kind (Macgregor & Balding, 1994)
- Poor oral health and untreated oral disease can significantly impact quality of life, including loss of self-esteem and decreased economic productivity (Healthy People 2010)

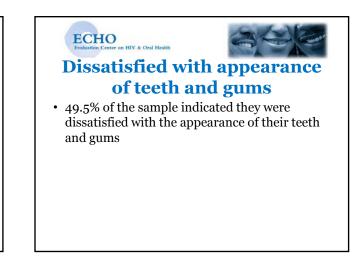




The Oral Health & Confidence Connection

- Chavers, Gilbert and Shelton (2004) reported a large proportion of their study participants avoided certain activities such as smiling, laughing and talking because of poor oral health.
- The effect of diminished oral health on selfesteem has not been a priority among health care providers for vulnerable populations (Huff, et al. 2006)

Evaluation Center on HIV & Oral Health					1	and the	
Base	line sym	pto	ms in	past 2	12 mc	os	
No problems	9.	50%					
Growths/bumps		L1.40	1%				
Pain in jaw		1	7.60%				
Sores		1	7.80%				
Loose teeth			23.	80%			
Bad breath			2	7.50%			% respondents
Bleeding gums				35	.40%		
Toothache					43.	10%	
Appearance						49.509	6
Sensitivivty						49.90	%
Tooth decay						51.40)%





Socio-demographics characteristics

· There was no difference based on gender

HIV & Oral Health

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- Patients were more likely to be white (54.2%) and less likely to be Hispanic (60.3%) (p<.001)
- Less likely to report no monthly income (58.5%, p<.001)
- No difference in employment or housing status.





Oral health risks

- More likely to be current smokers (54.0%, p<.001)
- More likely to report past marijuana use (53.7%, p<.001)
- More likely to report past crack/cocaine use (55.2%, p<.001)
- More likely to report past crystal meth use (61.8%, p<.001)
- More likely to report grinding teeth in past 30 days (61.0%, p>.001)

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Health and oral health status

- More likely to report needing oral health care since testing HIV+ but unable to access it. (59.4%, p<.001)
- More likely to report going to a private dentist in the past for care (54.2%, p<.05)
- More likely to report private health insurance for health care. (58.3%, p<.001)
- More likely to receive HIV care from a private doctor. (57.1%, p<.05)
- Less likely to be taking ART (55.2%, p<.001)
- Less likely to have an HIV case manager (55.2%, p<.05)



- Patients are twice as likely to report oral health symptoms
- More likely to report toothache (61.2%, p<.001) and tooth decay/cavities (60.7%, p<.001)
- More likely to report bad breath (70.3%, p<.001)
- More likely to report oral growths or bumps (61.2%, p<.001) and sores (62.4%, p<.001)
- More likely to report bleeding gums (60.1%, p<.001)
- More likely to report sensitivity (62.7%, p<.001)



Quality of life and OH quality of life

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- Patients were more likely to have lower MCS and PCS SF-8 scores (p<.001)
- More likely to report "quite a bit or a great deal" of oral health pain in the past 30 days (67.4%, p<.001)
- More likely to report not going out "fairly often in the past 30 days (74.4%, p<.001)
- More likely to report avoiding eating in the past 30 days "fairly often" (67.1%, p<.001)
- More likely to report the health of their teeth and gums as "poor" (69.8%, p<.001)





Oral health appearance and employment

 I was a waiter for 24 years and then two years, three years ago I went to forklift driving because I had broke by partial to my bottom teeth, which are in the front. I stepped on them and couldn't fix them and being a waiter, you don't have dental insurance, restaurants don't offer benefits. And so nobody would hire me, just that being between jobs too and nobody hires waiters with two front missing teeth or three, maybe it's three front. I had to change jobs and went into like production, became a forklift driver because it doesn't matter how many teeth you have. And I make less money, a lot less money.

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Oral health appearance and employment

• Well it is much that my teeth are really in horrible shape. They're very embarrassing, I mean, I'm a bartender and my face counts, it's made it so I don't smile and it's made me self conscious to go out and socialize. So it's affected me pretty--a lot actually, a large impact.





Oral health appearance and social interaction

Sometimes you don't even want to smile, so sometimes when you get around a group of people you start isolating yourself. You see the isolation is worse than having an addiction, because the isolation will take the place of that in itself and make you do other things.





Oral health appearance and social interaction

I've always liked to smile, I was a cheerleader from the time I was in the 6th grade through the 12th grade and smiling was always a big deal to me. And now I don't feel like my smile is pretty and I know if I don't get it fixed they're gonna fall out ...I don't feel as confident.





Oral health appearance and social interaction

I would say for the last few years I've been hesitate to take part in some pretty much social activities just because I'm so self conscience about my appearance, my dental appearance... Going out to a club. I'm single and I like to meet new people and that's, you know, it's hard to do that. I don't feel confident ... You always wonder what somebody's thinking, you know.

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Oral health appearance and self-esteem

 Yeah, because I don't smile. ...I have some teeth missing and I don't like to smile and I don't like to laugh out loud because I don't like to open my mouth sometimes, and I'm afraid maybe there's some odor or something





Oral health appearance and self-esteem

 I find myself like really questioning going out at times because I don't think guys are going to be attracted to me when I smile. And I think that my smile -- my teeth have made me look older than I am. So you know it has affected me definitely. I think that that has a lot to do with the way I think of myself.





Oral health appearance and self esteem

 I'm like aware of that I haven't been to a dentist in so long and that my teeth are dull from smoking and probably drinking and that it sort of -- I'm not like the best -- I'm not taking care of myself like I should be, like taking care of my teeth and cutting out the smoking and whatever. It prevents me from, how do I say it, it's a negative in that I don't relate as best as I could to people.





Longitudinal changes

- There was a significant (p<.001) increase in the MCS scores at both 6 and 12 months. The increase in the PCS scores was significant.
- Fewer participants reported avoiding going out at the 6 and 12 month follows up interviews (p<.001)
- There was an increase in participants rating of the health of their teeth and gums at 6 and 12 months (p<.001)





Patient dissatisfaction

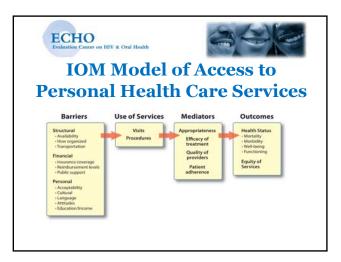
...l've had to have extracted three or four teeth. I'm not sure how many and it's noticeable. So you're a bit shy to start conversations. You really don't do some thing's you might ordinarily do because you're worried about your appearance. So yes I'm not really happy with it right now, at least my appearance.

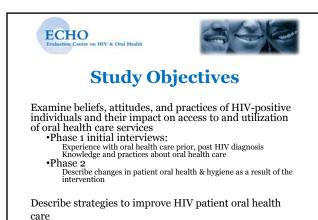


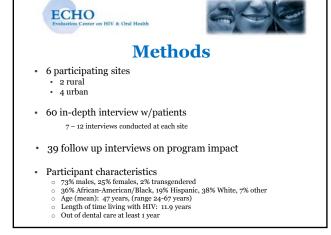


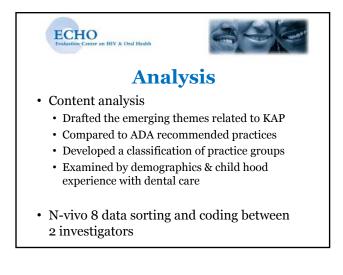
"Your oral healthcare does affect your HIV health... You need to keep care of your teeth and if your teeth are in good shape then you should be all right as far as avoiding any infections"

A qualitative study of HIV-positive patients and their knowledge attitudes & practices around oral health care













ADA recommended practices

- Brush teeth 2 times/day
 Replace toothbrush every 3-4 months
- Clean between teeth daily with floss or interdental cleaner
- · Eat well balanced diet and limit snacks
- Visit dentist regularly for professional cleanings and oral exams





What do patients know about oral health care? (n=58)

- 6 categories of "good" practices
 - Brush teeth
 - Floss
 - Mouthwash (with Listerine)
 - Go to the dentist for regular check ups
 - Do not smoke

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- "Avoid sweets or candy"; diet





- 58 % patients reported receiving a demonstration on taking care of teeth/gums
 - 77% patients as an adult by dental staff– 23% patients received as a child
- 42% reported not receiving/could not recall receiving a demonstration





Values: Parental influence

• 22% patients reported no routine dental care as a child

"I very rarely go. I was not a regular client at the dentist because my parents only took me to the dentist once in my life and so I didn't know the need for follow-up dental and keeping good hygiene until I got older. "





Attitudes about oral health care

• Oral health care is not important because I have strong teeth

"Before I was diagnosed I hadn't been in years because I was homeless and stuff. So it was I would guess maybe a good 8 or 10 years before I got diagnosed. Well basically I didn't have any problems... I mean before testing positive it wasn't that important. I didn't have time because I was you know using drugs and you know as long as there wasn't nothing bothering me you know too tough there wasn't-- you know I didn't have time to go to the dentist."

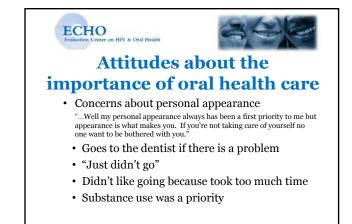




Attitudes about the importance of oral health care

· Dental care a priority but cost too much

"There was a bigger expense and I didn't want to pay for it or I couldn't pay for it and I didn't go. But I always put it on the backburner never having had any dental problems and never seeing it really important and I never had problems with my teeth on a day-to-day basis..."







Changes in KAP from participation in SPNS





Participation in SPNS oral health care program

Did you learn something new about HIV and oral health care?

- Good oral hygiene=good HIV health

"I've learned that it's important to brush your teeth, gargle and always check your mouth, your tongue and your gums to see if you have any sores"





Participation in SPNS program

- Improvements in oral health care practices
 - Better brushing & flossing techniques & frequency
 - "Now I buy lots of toothbrushes and use them for a short time and replace them."
 - "I brush everyday instead of 3 times/week..I floss a lot more"
 - "I brush longer"







Participation in SPNS program

- Biggest difference from receiving care from us (SPNS)
 - Relief of pain
 - Can eat
 - Improved appearance
 - "Can eat so I gain weight...look better"
 - "Smile more.. No holes"
 - The Dental staff
 - "Friendly"
 - "High quality"
 - "Takes time to educate"
 - Easier access to care-enhanced availability
 - "I can see dentist on a regular basis"





Participation in SPNS program

- Advice to other living with HIV about oral health care
 _ Importance of oral health in overall HIV health care
 - "I would tell them that they need to go because if your teeth are healthier that means you'll be more healthier and that'll help on your CD4 counts and stuff like that a lot. After I got my teeth and stuff fixed my CD4 cells they skyrocketed."





Patient perspectives on dental case managers

- Help patients communicate with dental and medical providers
- Feels more comfortable with dentist and oral health care
- "My case manager comes to (dental) appointments with me..she makes me feel comfortable I can ask questions..."





Patient perspectives on dental case managers

- Explains how to take care of mouth and teeth & shares information
- "He encouraged me to start taking care of my mouth, told me about all the hygiene, the flossing ..."



through if it wasn't for her"

• "She helps with scheduling taking, and sitting with me during the dentist and everything.. I may not have followed





Summary of findings

 HIV positive patients have limited knowledge and practice due to history:

Parental influence

- Limited access to oral health education and services as an adult and child
- Attitudes toward the value of oral health care as part of overall HIV health
- The SPNS interventions expanded oral health care service sites, they improved knowledge, attitudes and practices and retained patients in oral health care.

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Program implications

- For dental staff: patients need repeated messages about good oral practices
 - Emphasize Frequency of practice (brushing, flossing, visits)
 - Discussion of diet
 - Importance of not smoking
 - Provide educational opportunities and tools for patients about links between HIV & oral health care
- For HIV medical and social service providers:
 - · Ask about oral health care needs and practices

Oral Health Status in HIV/AIDS Patients: Housing Support and Oral Health Promotion Compliance in HIV/AIDS Patients in Marginalized Communities

Case Study from Chester, PA

Co-existence/Prevalence of <u>HIV/</u>AIDS and Homelessness:

- Nationally, of nearly 12,000 people living with HIV/AIDS surveyed by AIDS Housing of Washington, 40% reported having been homeless at least once in the past year.
- The homeless population has a median rate of HIV prevalence at least three times higher - 3.4% versus 1% - than the general population.

Health Care Providers and Housing

- Housing is the major missing element among services provided to AIDS patients.
- Housing is a key [missing] element to ensure the quality of life and compliance to medical treatment plans.

ALDS Care Group (ACG)

- ACG, Chester, PA
- Incorporated in 1998
- Ryan White Parts A, B, C & D; HOPWA and SPNS/HRSA

Characteristics of clients served by ACG in 2009:

- 74% of the clients were minorities
- 43% were women
- 97% were considered living in poverty
- 85% had contracted HIV through injection drug use and/or heterosexual contact
- 292 out of 1029 (28.3%) of the clients were homeless





Clientele of ACG

- Over 1,000 patients served in 2009 for primary clinical care services and medical case management
- 629 clients received supportive services for transportation, housing, food, shelter, and clothing
- Over 2,000 HIV tests provided
- Delaware, Chester, Bucks, Montgomery, Philadelphia, Dauphin, and Lancaster Counties served

Formal and Learned Provider View of Client Needs

- 1. Medical care
- 2. Housing
- 3. Transportation
- 4. Food
- 5. Clothing
- 6. Personal Identification (SSN, ID, etc)
- 7. Benefits



Services Provided: Medicine • Transportation Food • Dentistry Medical Case Housing Employment Referral Nutrition • Art Therapies • Psychiatry • Psychosocial services

Essentiality Ranking of Supportive Service/s by Clients:

- What supportive service/s, if missing, would have made you very likely not to keep your medical/dental appointment on follow-up ?(check maximum 2 - check two that matter the most to you):
 - 1. Housing Support/Referral 65%
 - 2. Transportation 39%
 - 3. Food 38%
 - 4. Employment Referral 29%
 - 5. Job Training 22%

low-income people including people living with AIDS:

- People living with AIDS and former drug users are offen discriminated against in low-income housing markets.
 Low-income AIDS patients and their families offen cannot afford food, let alone the security deposits or down payments for low-income housing.
- Commonly, AIDS patients do not have a good credit history and sometimes have substance abuse history made more problematic by a criminal history. have a

Percentage changes in Oral Health Behaviors								
Behavior/Risk Factor	Baseline -		Follow up		P-value *			
	Yes	No	Yes	No				
Brushed in last 30 days?	92.8	7.2	98.2	1.8	0.021			
Flossed in last 30 days?	35.2	64.8	70.8	29.2	<0.00005			
	60.2	39.8	49.4	50.6	0.578**			
		95.6	0.6	99.4	0.0215			
			51.2	48.8	0.049			
				51.6	0.0253			
					<0.00005 ant			