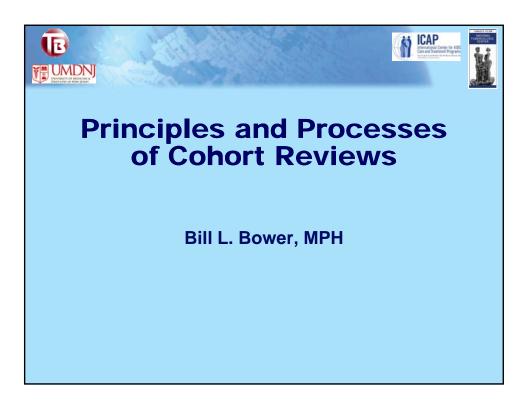
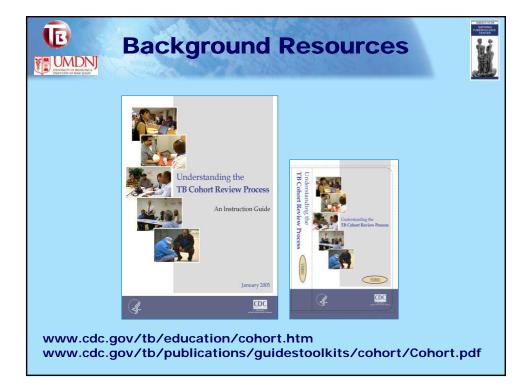
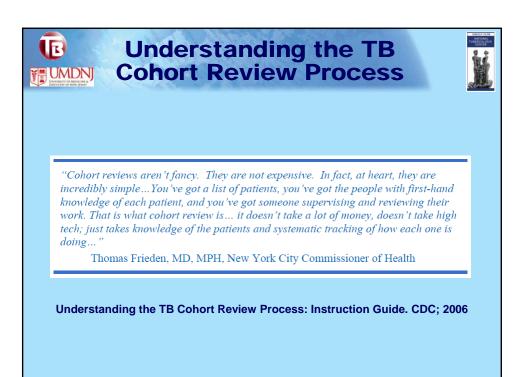


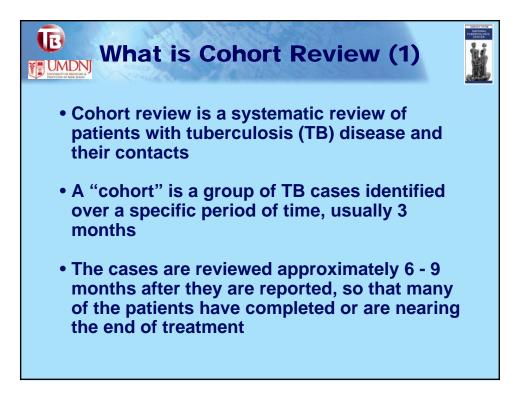
Faculty (1) UMDNJ Bill L. Bower, MPH Director of Education and Training, Charles P. Felton National TB Center Assistant Clinical Professor, Heilbrunn Department of Population & Family Health, Mailman School of Public Health, Columbia University Dawn Tuckey, MPH **Program Consultant** Field Services & Evaluation Branch DTBE, NCHSTP, CDC Chrispin Kambili, MD Assistant Commissioner of Health and Director Bureau of Tuberculosis Control New York City Department of Health & Mental Hygiene

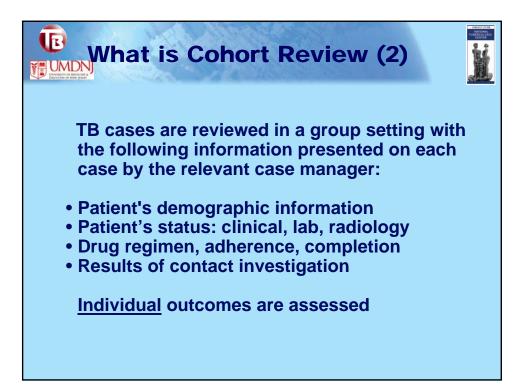


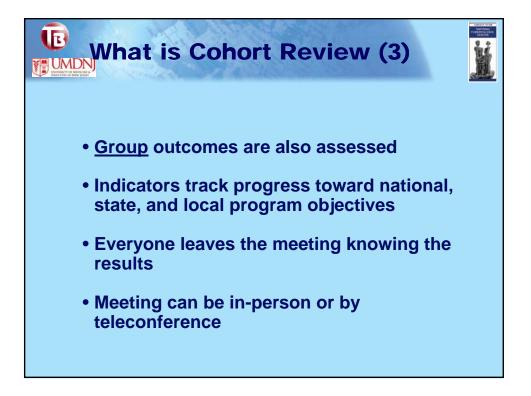


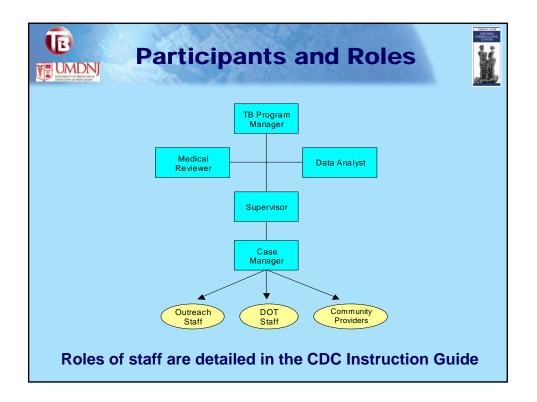


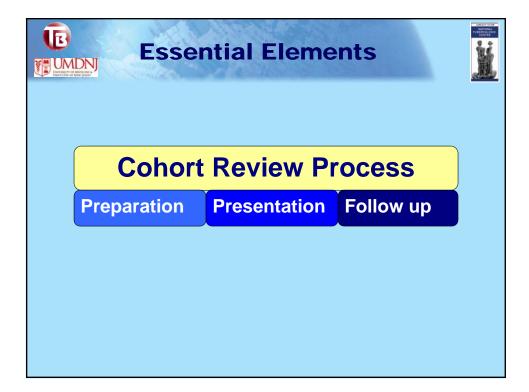


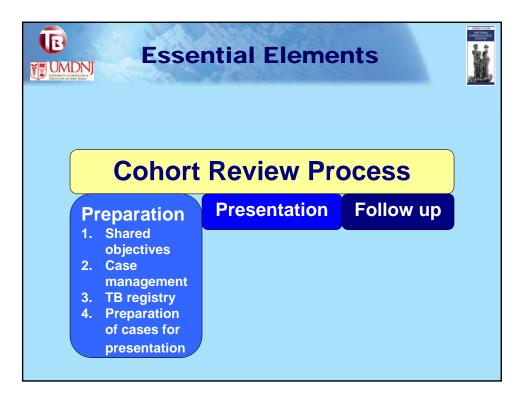


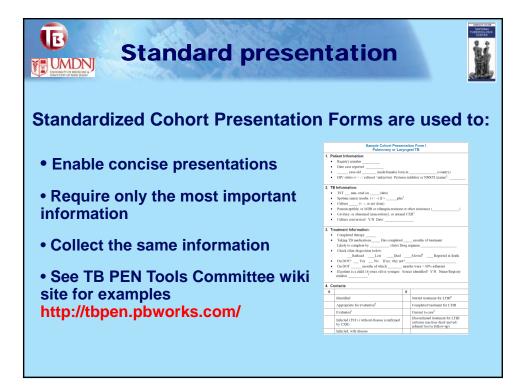


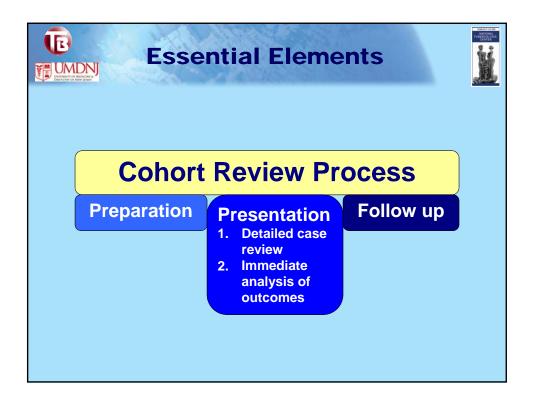






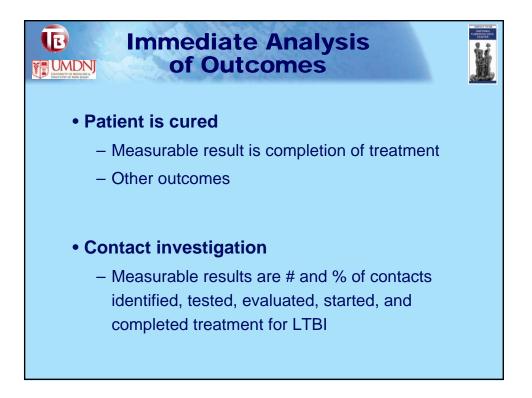


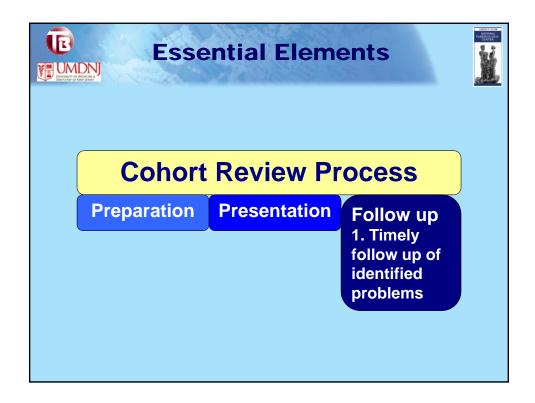


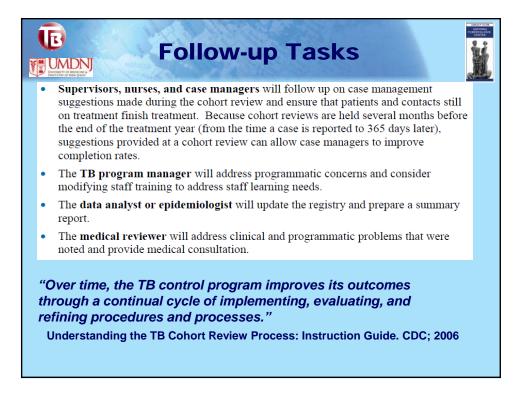


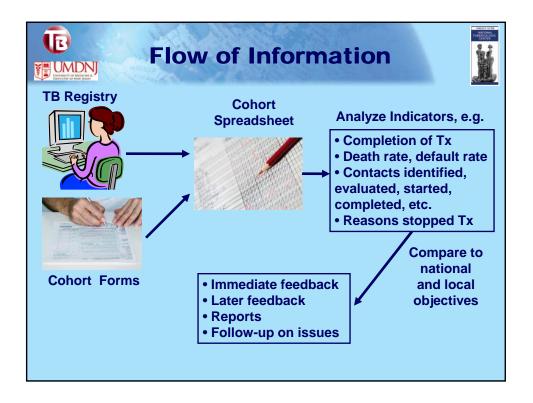


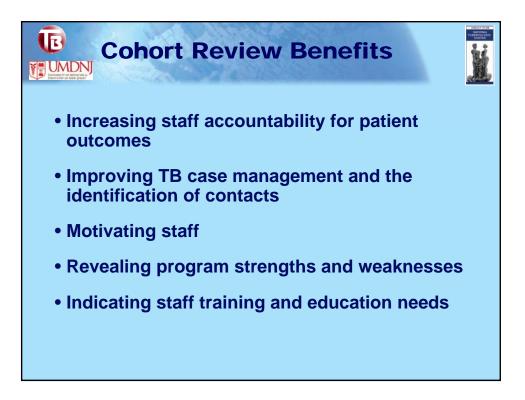
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Name	Registry #	A-D	Sm+	Cult+		Mos. DOT	a	b	c	d	e	f	g	h	1	j	k		# ID	App test	# Eval	# Inf	# Trt LTBI	# Comp	# Curr
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2010 Cohort Review Guidance

Dawn Tuckey, MPH Program Consultant RTMCC Project Officer CDC, DTBE, FSEB

CDC Cooperative Agreement (1)

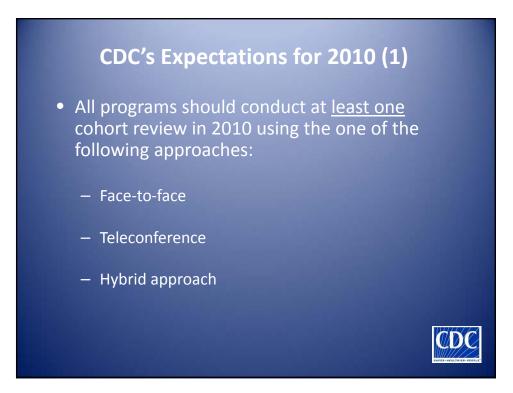
"To improve TB case management and program accountability and feedback, the grantees should hold quarterly cohort reviews at the state or local levels or both. Cohort reviews are integral to TB control and provide a systematic review of the management of cases and contact investigations.

Instructions on cohort reviews, definitions, roles of staff, timelines, core elements, and guidance on tailoring the process to your program are published in the CDC document, Understanding the TB Cohort Review Process: Instruction Guide"



CDC Cooperative Agreement (2)

- Grantees should report the progress on conducting cohort reviews, including the number of cases discussed, key issues identified during these cohort reviews, and recommendations provided.
- Additionally, progress on implementing these recommendations should be included in progress reports and used to develop evaluation activities.



CDC's Expectations for 2010 (2)

Cohort Review Reporting requirements

- Date cohort reviews occurred
- Number of cases in each cohort review
- Type of cohort review model used
- Frequency of cohort reviews (semi-annual or quarterly)
- Indication whether cohort reviews include patients with TB disease and/or LTBI
- Key issues discussed
- Recommendations provided
- Progress on implementing these recommendations

Frequency of Cohort Review

- Programs with 0-50 reported cases per year reported annually should conduct two cohort reviews during the reporting period
- Programs with over 50 cases should conduct four cohort per reporting period
- Programs with < 15 cases, are encouraged to focus on cohort review of patients with LTBI and completion of LTBI treatment



Regional Cohort Reviews

Programs may conduct regional cohort reviews

An agreement should be developed among partners for the process, location, cohort review models, and each programs roles and responsibilities

Additional Resources and Training Opportunities

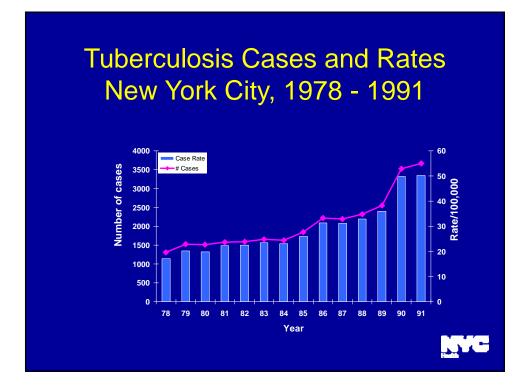
- DTBE is updating cohort review materials to include the guidance, "Understanding the TB Cohort Review Process: Instructional Guide"
- RTMCCs will develop standardized cohort review trainings
- In collaboration with your TB program consultant, establish a system that works for your program

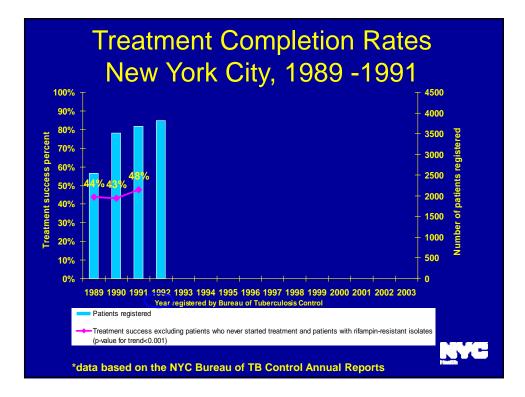


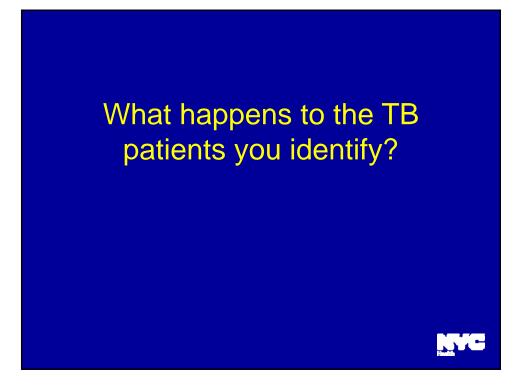


Historical Perspective of Cohort Reviews in New York City: Key components, benefits, and challenges

> Chrispin Kambili, MD Director, Bureau of Tuberculosis Control New York City Department of Health and Mental Hygiene







Accountability



Karel Styblo during a visit to New York City, 1993

"Every patient you start on treatment, you are responsible for their outcome."

"I see how many patients you diagnosed last year. How many of them did you cure?"



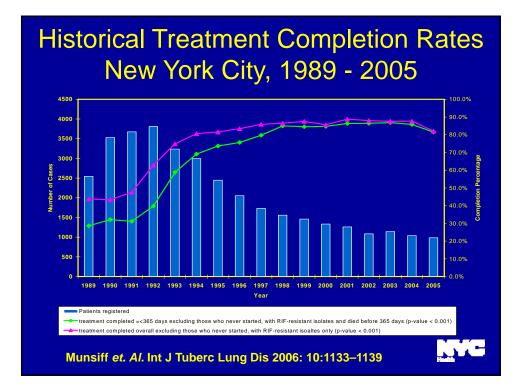
Cohort Review Process

- TB Program Director reviews <u>every</u> counted case
- Case managers present cases supervisors, managers, clinicians also contribute
- Last month we had 4 cohort review sessions (one for each region) each lasting 3 to 4 hours depending on number of cases
- Quarterly cases ranged from 26 (Bronx) to 62 (Queens)

336⁻

Cohort Review Process (cont'd)

- Assures consistency with global principles of TB control
- Sets the standard for accountability for case management and followup of patients <u>and</u> their contacts
- Immediate linkage of benchmarks to local and national objectives



Evolution of Cohort Reviews in New York City

- Early reviews focused on TB treatment completion
- Later focus expanded to evaluation and treatment of contacts for LTBI
- More recently, we have expanded focus to HIV testing, including HIV testing of contacts
- This year we aligned our cohort indicators with CDC's NTIP indicators to emphasize best practices

Conclusion: Benefits of the Cohort Review

- The cohort review is the NYC TB Bureau's principal method of program monitoring and evaluation
 - Ensures accountability
 - Improves the quality of data
 - Provides a forum to discuss difficult questions
 - Staff are publicly praised for achievements
 - Also a forum for highlighting the TB program's strategic goals and objectives

Cohort Review Process Limitations

- May be too late to make interventions
- Can be time consuming, thus limiting depth of certain discussions

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Conclusion: Applications of the Cohort Review

- Customizable to context
- Can be applied in both high TB incidence and low TB incidence areas
- Can be applied to other diseases beyond TB

 Used for HIV/AIDS patients in Malawi* and in NYC

...

*Harries et al. BMJ 2004; 329:1163-1166.

Missouri's approach to the Cohort Review



Harvey L. Marx, Jr. Traci Hadley, RN BSN Bureau Chief / CDCP, TB Controller Public Health Consultant Nurse

Reasons for Implementation

- CDC Cooperative Agreement
- Increase learning
- Improve case management at the state and local levels
- Tool to conduct program evaluation
- Improve documentation in clinic records and improve patient outcomes

Missouri's Approach

- The "cohort" is a group of TB cases identified over a 3 month period
- The cases are reviewed approximately 6 months after they are reported, many of the patients are nearing the completion of treatment
- TB cases are reviewed in a group setting with the cohort information presented on each case by the LPHA case manager or DHSS Nurse Consultant via video conference

Missouri's Approach

- Every LPHA is invited to attend
- Majority of cohort information available through Missouri's TB Registry - WebSurv
- Individual outcomes are assessed
- Group outcomes are assessed

Missouri's Approach

- Track progress toward national, state, and local program objectives
- Case presentations are consistent

TB Registry

- The WebSurv application is a .NET database containing:
 - General patient information
 - Medical and treatment history
 - Contact info
- Cohort form can be printed from WebSurv
- Used to generate line listing (2 mos. before review)

Timeline										
ample of a Cohor	t Review Schedu									
Quarter Case Identified	Quarter Case Reviewe									
1 st (Jan-Mar)	^{3rd} (Jul-Sep)									
2 nd (Apr-Jun)	^{4th} (Oct-Dec)									
3 rd (Jul-Sep)	^{1st} (Jan-Mar)									
	^{2nd} (Apr-Jun)									

Example of State Objectives

- Persons with TB disease will be interviewed within 3 business days of case notification
- Contact investigations will be completed within 21 days
- All TB disease cases will be offered the opportunity to be screened for HIV

Case Management

- Every TB disease case in Missouri has an assigned case manager
- Staff follow written protocols for case management and contact investigation
- DHSS provides routine consultation on case management / assist with extended contact investigations

Cohort Review

- Program Staff (TB Controller, TB Program Manager, or TB Nurse Consultant) ask questions of case managers:
- Patient treatment
 - Begin four drug regimen
 - Regimen is appropriate
 - DOT; HIV Status; negative labs
 - Successful completion of treatment (Tx)

Cohort Review

- Contact investigation
 - Measurable results are # of contacts identified, appropriate for testing, evaluated, started and completed treatment for TB disease or LTBI

Cohort Review

- Obtain missing data or update incorrect data
- Provide analysis of data for:
 - DOT coverage
 - Timeliness of investigation
 - State and national TB objectives are met

Contacts

Of those who had treatment discontinued, how many:

- Refused to continue treatment
- Adverse reaction to treatment
- Lost to follow-up
- Moved
- Died

Samples of issues during the cohort

- Documentation of culture conversion
- HIV status
- Contact investigation follow-up

Missouri Cohort Review

- Most important meeting of TB program
- Low tech, can be done by hand
- Closely linked to CDC & Missouri objectives
- Group process
- Every one leaves meeting knowing results (or soon afterwards)
- Teaching opportunity
- Learning opportunity

Oregon TB Control Cohort Review

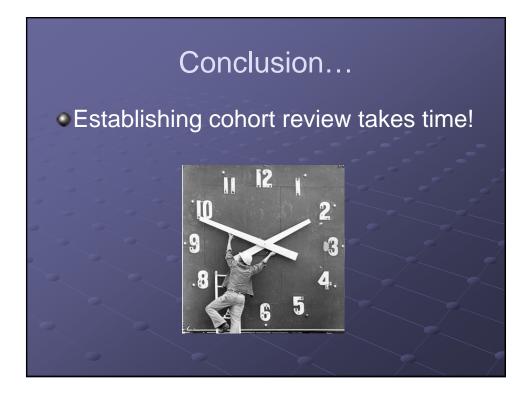
Heidi Behm, RN, MPH TB Controller HIV/STD/TB Program Oregon, Department of Human Services

TB in Oregon

- Low incidence, large geographical area
- Metro area (2.5 million), frontier areas (1,300 in county)
- 2010 89 cases, 72% foreign born
- Oregon TB Control staff 3 total
- Challenges-staffing, expertise in TB, cultural competency, DOT esp. rural areas

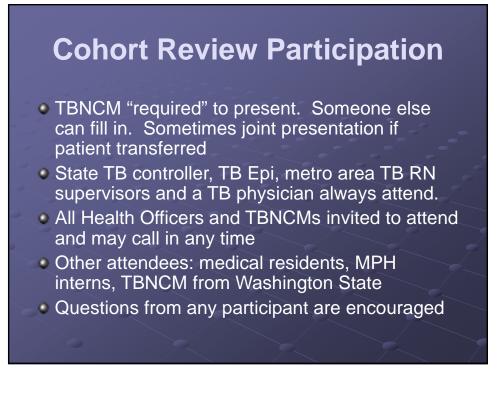
Cohort Review Start Up

- 1/2007 Multnomah County "End of Treatment" (EOT) review. Innovators!
- 7/2007 Metro area EOT review (face to face, 3 counties)
- 1/2008 Oregon TB Control cohort review with non metro counties (phone)
- 4/2009 combined cohort review (yahoo!)
- 6/2010 program element "requiring" cohort review participation



Cohort Review Process Preparing for the Review

- Quarterly
- Review cases counted 6-9 months prior
- TB Epi pre-fills form with case and contact information *before* review and emails to TB Nurse Case Manager (TBNCM). Lots of work but worth it!
- TB Epi works with TBNCM to ensure data is complete <u>before</u> review. No surprises during review
- TB Epi emails all counties completed form so they can follow along

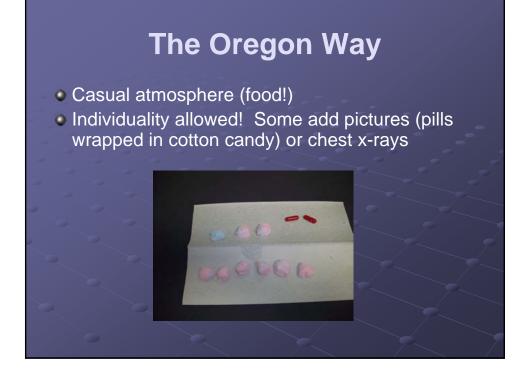


Day of the Review

- Review is 3 hours
- TB Epi presents aggregate data on cases and their contacts for quarter under review. Comments on how data looks in comparison to program objectives
- Metro TBNCMs attend in person. Other areas via teleconference
- Everyone has sheets with case details and follows along

Initial Barriers

- Fear of presenting
- Not enough time
- Combining reviews
- Sound quality



The Oregon Way continued

- Pre-filled form saves time and ensures preparation
- Minimized routine clinical data on form
- Added subjective questions to create discussion:
 - What incentives and enablers were used?
 - What unique case management strategies or community resources utilized?
 - Anything you'd do differently?

Proof of Success

- People call in when they don't have to!
- HIV testing has improved
- DOT is better managed
- We learn from each other and gain additional resources

Still trying to Improve

- Still too long? What is essential?
- Sound quality issues
- Confidentiality for rural patients
- Need to develop a process for follow-up after the review







