

Measuring & Evaluating IIS Training

How Nevada started using audit reports to evaluate
provider training

Some background about Nevada IIS

- ❖ Usage of state IIS, called Nevada WebIZ, is mandated by state law
 - ❖ All vaccinations must be entered into Nevada WebIZ's IIS (previously known as the registry), regardless of funding source or patient age
- ❖ Public Access Portal is live, so data quality is a key factor
- ❖ Approximately 1000-1500 registry users are trained every year
- ❖ Nevada is a transient state, and turnover at provider offices is very high
 - ❖ Retraining of providers and/or users is constant
 - ❖ Prior audit checked for compliance only
 - ❖ Launch of Reports and Data Management class in December 2011 evaluated for data quality only

VFC Evaluation Project

- ❖ 2012 project compared doses reported to VFC program with doses entered into IIS
 - ❖ Part of CDC grant plan
 - ❖ Evaluation used data from January to March 2012
 - ❖ Data gathering began in May 2012
 - ❖ Some VFC providers still submitting manual VFC reports, especially if not using IIS inventory feature
 - ❖ Ideally, number of VFC administered doses should match in both reports
 - ❖ VTrcks ExIS implementation will begin in late 2015

Generating # of Doses Unreported on WebIZ

[illegible][illegible][illegible]

Slide created by Emily Doyle, CDC Intern, Nevada State Immunization Program

VFC Evaluation Project

- ❖ After reviewing results, IIS trainers conducted site visits
 - ❖ Goal was to review audit results and determine causes behind any discrepancies
 - ❖ Additional resources and training were offered
 - ❖ Providers encouraged to register for Reports and Data Management class
 - ❖ Approximately 80 site visits conducted all over the state, the rest of the providers were contacted via mail or email
- ❖ CDC intern compiled results of the project and conducted follow-up evaluation
 - ❖ To determine if provider rate improved after trainers intervened
 - ❖ To determine which interventions proved most effective
 - ❖ Create training material for providers
 - ❖ Submit recommendations for continuation of improving IIS compliance rates

Lessons Learned during Site Visits

- ❖ Lack of Office Management Support and Reinforcement
 - ❖ Manager viewpoint/knowledge/support for IIS determined results
 - ❖ Strict AFIX coordinator usually meant better or improving results
 - ❖ Intentional data quality compromises to “get law requirement out of the way”
- ❖ Policy/Procedure Obstacles
 - ❖ Inventory and doses recorded by different users
 - ❖ Sometimes vaccine information incomplete (no lot #, etc.)
 - ❖ No way to account for borrowed vaccines
- ❖ Lack of Trained Users at Provider Office
 - ❖ High turnover meant not enough or no users
 - ❖ Incorrect data entry methods (missing or inaccurate information)
 - ❖ Users trained several years before evaluation – no knowledge of updates
 - ❖ Users/Providers unaware of reporting and data management features

Redesign of Reports and Data Management Class

- ❖ Continually evolving curriculum throughout 2013
 - ❖ Rapid Instructional Design used
 - ❖ Invited providers from 2012 Evaluation project
 - ❖ Based on their participation and feedback, adjusted module throughout the year
 - ❖ Evaluation Plan built into curriculum to measure effects of training & compliance (required for CEUs)
 - ❖ CEU's approved for Board of Nursing, Board of Pharmacy, America Association of Medical Assistants (AAMA), American Medical Technologists (AMT), and soon Emergency Medical Services (EMS)
- ❖ Evaluation Plan used Kirkpatrick's New World Model
 - ❖ www.kirkpatrickpartners.com/OurPhilosophy/TheNewWorldKirkpatrickModel/tabid/303/Default.aspx

Evaluation Concepts – Level 1 (Reaction)

- ❖ Level 1 – Reaction measures:

- ❖ Participant Satisfaction (how they feel about the training)
- ❖ Engagement (the degree to which participants are actively involved and contributing to their own learning)
- ❖ Relevance (the degree to which participants will have the opportunity to use or apply what they learned when they return to the workplace)

- ❖ Measured through training evaluation sheets (smile sheets)

- ❖ Administered through paper or Survey Monkey
- ❖ Asks for feedback on satisfaction, including participation levels
- ❖ Feedback also requested on how they will apply new skills and knowledge to their jobs

Evaluation Concepts – Level 2 (Learning)

- ❖ Level 2 – Learning measures:

- ❖ To what degree participants acquire new knowledge, skills, and attitudes (KSA)
- ❖ Participant confidence and commitment to apply new KSA based on training

- ❖ Measured through satisfactory completion of Office Homework

- ❖ Providers are given their data quality reports and assigned to fix errors
 - ❖ Vaccines Added but Not Administered (missing lot #s)
 - ❖ Duplicate vaccinations
 - ❖ Duplicate patients
 - ❖ Update IIS User list for their office
- ❖ CEUs will not be granted until homework has been completed and submitted
- ❖ Trainers to check for correct completion of homework

- ❖ Measured through follow-up audit 30-60 days after class

Evaluation Concepts – Level 3 (Behavior)

- ❖ Level 3 – Behavior measures:

- ❖ To what degree participants actually apply what they learned during training when they are back on the job

- ❖ Measured through comprehensive provider audit 6-12 months after class

- ❖ Most participants are managers; evaluation will determine how they reinforce principles and IIS law compliance
 - ❖ Also tell us if they are able to successfully self-audit their practices on a regular basis
 - ❖ Audit checks for correct data entry, data quality, usage statistics, VFC dosage matching, immunization rates, reminder/recalls, and compliance with IIS law

Evaluation Concepts – Level 4 (Results)

- ❖ Level 4 – Results measures:

- ❖ To what degree outcomes occur as a result of the training event and subsequent reinforcement

- ❖ Not included as part of formal plan for these reasons:

- ❖ Annual IIS updates can make measuring this level of effectiveness difficult
 - ❖ High turnover within provider offices

- ❖ Very few organizations reach Level 4

Suggestions for designing evaluations

- ❖ Work in reverse

- ❖ Determine IIS program needs (Level 4 results)
- ❖ Determine desired job behavior after they leave your class (Level 3 results)
- ❖ Determine knowledge and skills to be learned (Level 2 results)
- ❖ Determine how you know learners will be satisfied (Level 1 results)

- ❖ Conduct needs analysis for your training to match each stage

- ❖ What are program needs?
- ❖ What are performance needs?
- ❖ What are learning needs?
- ❖ What are individual learner needs?

- ❖ *Needs Assessment Basics* by Deborah Tobey.

<http://store.astd.org/Default.aspx?tabid=167&ProductId=7346>

Training Transfer Factors to Consider

❖ Transfer Climate

- ❖ The most significant factor in whether or not training is successfully transferred to the job is the degree in which the work environment supports what was learned in training

❖ Learner Self-Efficacy

- ❖ The more confident learners are in their ability to learn skills, the more successful they will be in applying what they have learned
- ❖ Especially true for learners with high computer self-efficacy

❖ Transfer Design

- ❖ The more training activities reflect real-world scenarios, the more learners will apply new skills and knowledge

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Questions?