

Meaningful Use/Documentation Challenge AAP 2010

History: *In this section the presenter should show how the following is recorded.*

To meet Meaningful Use requirements, the presenter must record preferred language, gender, race, ethnicity and date of birth as “structured” values. The system must also display the recommended immunizations (this satisfies the requirement for “one clinical decision support rule relevant to specialty or high clinical priority along with the ability to track compliance with that rule”). For this case, current AAP policy is to repeat the immunizations and complete the immunizations according to a catch-up schedule.

Cindy Jones is a 4 year old female from China adopted into a single Mom household one month ago. Her birth date is recorded from her Chinese records as Jan 1, 2006. This is an assigned birthday since she was a foundling and her birth was not witnessed. She has a hand malformation that needs reconstructive surgery.

Her immunization record shows:

BCG Feb 1, 2005
DTP, OPV, Hep B March 15, 2005
DTP, OPV, Hep B April 30, 2005
DTP, OPV, Hep B June 30, 2005

She was placed in foster care after arrival in the orphanage where she lived until adoption. She speaks only Mandarin, but the mother’s preferred language is English.

According to the English translation of the Chinese records Cindy developed normally and had no illnesses of note. There were no surgeries or hospitalizations. There are no active medications. Her records state that she is allergic to Penicillin.

Her Chinese name on her records is Sung Chue. Cindy Jones is her adopted name and her adoptive mother’s name is Mary. Mom speaks only English. She arrived with Cindy and a Mandarin speaking translator to help Cindy with the visit. Mom has a history of breast cancer.

Cindy needs a physical exam, laboratory evaluation, updating her immunizations, growth and development evaluation, and a plan for evaluation by a hand surgeon.

She had a PPD placed two days ago at a local health clinic. *(The presenter should record this)*

Physical Exam: *In this section the presenter should show how the following are recorded. To meet Meaningful Use requirements, the presenter must display height, weight and BMI growth charts. An alert should fire for the Blood Pressure (this is not required for Meaningful Use, but it shows pediatric functionality,).*

Height 42”, Weight 35 lbs, BP 140/80, Pulse 80, RR 16, BMI (calculated).

Cindy is a thin child, apprehensive, but in no distress. She listens attentively to the translator. She has been with her adoptive Mom for a month and has about 10 English words already. It is apparent that she hears and sees adequately.

Skin: Clear

HEENT: WNL

Lymph nodes: None enlarged

Heart: Normal sinus rhythm, no murmurs, not enlarged

Lungs: Clear to auscultation and percussion. Breath sounds equal

Abdomen: Soft, non-tender, no organomegaly or masses.

Extremities: PPD 22mm; left hand with two digits, no thumb. *(The presenter should show how the abnormal left hand is recorded graphically)*

Neurological: WNL

Diagnoses: *To meet Meaningful Use requirements, the presenter should show how the appropriate problems are recorded in the patient's problem list*

New patient, Chinese immigrant, adopted, with left hand deformity, TB exposure (PPD is over the 10mm allowed for BCG)

Plan: *In this section the presenter should show how the following information is ordered or recorded as done. The presenter should also show how the software could be used to access the Red Book through the internet as a web service)*

Anticipatory Guidance given:

Nutrition: protein and iron rich diet with fruits and vegetables

Vitamins: they live in a town with fluoridated water

Other: Exercise; Car seat; Non-smoking environment; Enroll in preschool, bilingual with mandarin speaker if possible.

Referral: Hand Surgeon (non-urgent)

Sendout lab tests (according to AAP Red Book recommendations):

CBC, UA, Comprehensive Metabolic Screen, Thyroid test, iron, iron binding capacity, lead, Hepatitis A, B, and C antibody and Hep B surface antigen, HIV, Syphilis, Stool for O and P, giardia, and cryptosporidium.

Other orders:

X-ray left hand

DtaP, IPV, MMR, Varicella, Hib, Prevnar. (Hep B vaccine deferred pending results)

INH (weight based dosing)

Pyridoxine 50mg one dose daily

Other tasks to meet Meaningful Use (italic) or to show pediatric functionality:

1. Enter Cindy's problems into the problem list (or show how this is done electronically though your note)
2. Show how Cindy's prescriptions would be sent via e-prescribing (not fax).
3. Create a CCR or CCD for the hand surgeon and Cindy's personal health record that the mother has created.
4. Show how the TB exposure would be reported electronically to the local health department if the mechanism for reporting electronically was available.
5. Show how the vaccinations would be reported electronically to the appropriate registry if the mechanism for reporting electronically was available.
6. Prepare a school/camp report so Mom can register her in preschool.
7. Send a note to staff to schedule appointment to return in 2 months for follow up on growth and development and additional immunizations. Add a reminder to start the Hep B series if labs show no titer.
8. Set a reminder to check labs and x-ray in three days.
9. Attempt to prescribe penicillin in order to show how the system flags drug-allergy interactions
10. After the visit is completed, the presenter should show how the CCR/CCD would look upon import into the system.

After the visit the presenter should show how the system meets **one** of the following Meaningful Use criteria not covered by the scenario:

1. Drug-formulary checking
2. Incorporate clinical lab-test results as structured data
3. Generate lists of patients by specific conditions to use for quality improvement, reduction of disparities, research or outreach
4. Send reminders to patients per patient preference for preventive/follow up care
5. Use the EHR to identify patient-specific education resources and provide those resources to the patient if appropriate
6. Perform medication reconciliation