Consensus Document Defines 'Meaningful Use'

BY JOYCE FRIEDEN

WASHINGTON — Just what exactly does "meaningful use" mean?

It sounds like a simple question, but there's a lot of money riding on the answer. The Recovery Act, formally known as the American Recovery and Reinvestment Act, stipulates that for a physician to receive up to \$44,000 in financial incentives for purchasing an electronic health record, the record must be put to "meaningful use." Now the government has to come up with a definition of the

At a subcommittee meeting of the National Committee on Vital and Health Statistics, which was convened to discuss meaningful use, several speakers explained why having more physicians adopt an electronic health record (EHR) was so valuable.

"The financial meltdown ... has shown us how we as a nation need to totally transform the U.S. health care system,' said Helen Darling, president of the National Business Group on Health. "We have a fiscal crisis, not just a health crisis; we have to act urgently."

Although everyone agreed that EHRs were valuable, speakers' definitions of "meaningful use" of them differed. "Meaningful use might vary by site of care as well as by type of care," said Dr. David Classen of the Computer Sciences Corporation, whereas Dr. John Halamka of the Health Information Technology Standards Panel, a government-funded group that helps ensure EHR interoperability, said his definition of meaningful use was "processes and workflows that facilitate improved quality and increased efficiency."

Several panelists agreed that EHRs had to allow for three things in order to be used meaningfully: electronic prescribing, interoperability with other computers, and reporting on health care quality measures. EHRs are particularly useful for reporting quality measures



EHRs are useful for reporting quality measures because they are a direct source of information.

DR. RAPP

because they are a direct source of information and provide very timely data, said Dr. Michael Rapp of the Centers for Medicare and Medicaid Services.

Experts at the meeting also agreed in general that EHR systems need to be certified by a government-approved organization such as the Certification Commission for Healthcare Information Technology to meet the Recovery Act's requirements. However, certification alone is not sufficient, because many parts of a certified EHR are not necessarily implemented, said Dr. Floyd Eisenberg, senior vice-president for health information technology at the National Quality Forum, which sets goals for performance improvement.

The day after the subcommittee's 2-day meeting concluded, the Markle Foundation held a press conference to release a consensus document on the definition of meaningful use. The document was endorsed by a number of provider and advocacy groups, America's Health Insurance Plans, and the National Committee for Quality Assurance.

The consensus document provides a "simple" definition of patient-centered meaningful use: "The provider makes use of, and the patient has access to, clinically relevant electronic information about the patient to improve patient outcomes and health status, improve the delivery of care, and control the growth of costs."

The document lists slightly different meaningful use requirements for the first 2 years, however; during that time period meaningful use would be when "the provider makes use of, and the patient has access to, clinically relevant electronic information about the patient to improve medication management and coordination of care."

The consensus document is available at www.markle.org/downloadable_ assets/20090430_meaningful_use.pdf.

Mirena®

(levonorgestrel-releasing intrauterine system)

BRIEF SUMMARY
CONSULT PACKAGE INSERT FOR FULL PRESCRIBING INFORMATION PATIENTS SHOULD BE COUNSELED THAT THIS PRODUCT DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES

INDICATIONS AND USAGE
Mirena is indicated for intrauterine contraception for up to 5 years. Thereafter, if continued contraception is desired, the system should be replaced.
Mirena is recommended for women who have had at least one child.

- CONTRAINDICATIONS
 Mirena is contraindicated when one or more of the following conditions exist:
- Pregnancy or suspicion of pregnancy.
 Congenital or acquired uterine anomaly including fibroids if they distort the uterine acquire.
- conjugantes or acquired uterine anomaly including fibroids if they distort the uterine cavity.

 3. Acute pelvic inflammatory disease or a history of pelvic inflammatory disease units there has been a subsequent intraulerine pragnancy.

 4. Postpartum endometritis or infected abortion in the past 3 months.

 5. Known or suspected uterine or cervical nepolasia or unresolved, abnormal Pap smear.

 5. Known or suspected uterine or cervical nepolasia or unresolved, abnormal Pap smear.

 6. Genital bleeding of unknown etiology.

 7. Untreated acute cervicitis or vagnitis uncluding bacterial vagniosis or other lower genital tract infections until infection is controlled.

 3. Acute liver disease or liver turnor (benign or malignant).

 5. Conditions associated with increased susceptibility to pelvic infections.

 6. A previously inserted IUD that has not been removed.

 6. Hypersensibility to any component of this product.

 7. Known or suspected carcinoma of the breast.

 RNININGS.

1. Ectopic Pregnancy
Evaluate women who become pregnant while using Mirena for ectopic pregnancy. Up
to half of pregnancies that occur with Mirena in place are ectopic. The incidence of
ectopic pregnancy in clinical trials that excluded women with risk factors for ectopic
pregnancy was about 1 ectopic pregnancy per 1000 users per year.
Fell women who choose Mirena about the risks of ectopic pregnancy, including the loss
of fertility. Teach them to recognize and report to their physician promptly any symptoms
of ectopic pregnancy. Women with a previous history of ectopic pregnancy, tubal
surgeny or pelvic infection carry a higher risk of ectopic pregnancy.

- Septic abortion
 In patients becoming pregnant with an IUD in place, septic abortion—with septicemia septic shock, and death—may occur.

any patients becoming reginant win an incoming aspice shock, and death—may occur.

Continuation of pregnancy

It a woman becomes pregnant with Mirena in place and if Mirena cannot be removed or the woman chooses not to have it removed, she should be warmed that failure to remove Mirena increases the risk of miscrarings, espiss, premature labor and premature delivery. She should be followed closely and advised to report immediately any flurible symptoms, fiver, chillis, cramping, pain, bleeding, varginal discharge or leakage of fluid.

Long-term effects and congenital anomalies

When pregnancy continues with Mirena in place, long-term effects on the offspring are unknown. As of September 2006, 939 live births out of an estimated 9.9 million Mirena users had been reported. Congenital anomalies in the births have occurred infrequently. No clear trend towards specific anomalies has been observed. Because of the intraudient administration of elevororisett and local exposure of the fetus is the hormone, the possibility of treatogenicity following exposure to Mirena contractions of the exposure of the exposure of the fetus is the hormone, in the possibility of treatogenicity following exposure to Mirena contractions of the exposure o

million Mirena users had been reported. In some case, severe pain occurred in hours of insertion followed by sepsis within days. Because death from GAS is re likely if treatment is delayed, it is important to be aware of these rare but serious ctions. Aseptic technique during insertion of Mirena is essential. GAS sepsis may occur postpartum, after surgery, and from wounds.

intections. Aseptic technique during insertion of Mirena is essential. GAS sepsis may also occur postpartum, after surgery, and from wounds.

4. Pelvic Inflammatory Disease (PID)
Mirena is contraindicated in the presence of known or suspected PID or in women with a history of PID unless there has been a subsequent intrauterine pregnancy. Use of IUDs be an easociated with an increased risk of PID. The highest risk of PID occurs shortly after insertion (usually within the first 20 days thereafter) (see PRECAUTIONS, Insertion Precautions). A decision to use Mirena must include consideration of the risks of PID.

a. Women at increased risk for PID
PID is often associated with a sexually transmitted disease. The risk of PID is greater for women who have multiple sexual partners, and also for women whose sexual partners; have multiple sexual partners. Women who have had PID are at increased risk for a recurrence or re-infection.

b. PID warning to Mirena users
All women who choose Mirena must be informed prior to insertion about the possibility of PID and that PID can cause tubal damage leading to ectopic pregnancy or interillation of intergentify can necessitate hysteroctomy, or cause death. Pathens to be a proper partner or the proposition of the properties of each in the properties of each in the properties of the properties of each in the properties of each in the properties of each in the properties of the properties of each in the properties of each in the properties of each in the properties of the properties of each in the properties of the properties of each in the properties of the properties of each in the properties of the p

Treatment of PID Following a diagnosis of PID, or suspected PID, bacteriologic specimens should be obtained and antibiotic therapy should be initiated promptly. Removal of Mirena after initiation of antibiotic therapy is usually appropriate. Guidelines for PID treatment are available from the Centers for Disease Control (CDC), Altanta, Georgia. Actionaryosis has been associated with ILDs. Symptomatic women with ILDs should have the ILD removed and should receive antibiotics. However, the management after a contractive careful for a contractive and the ILDs and ILDs and

the Pap smear diagnosis with cultures.

regular Bleeding and Amenorrhea

and can alter the bleeding pattern and result in spotting, irregular bleeding, heavy

stiding, oligomenorrhea and amenorrhea. During the first three to sk months of Mirena

k, the number of bleeding and spotting days may be increased and bleeding patterns may

regular. Thereafter the number of bleeding and spotting days usually decreases but

dding may remain irregular. If bleeding irregularlities develop during prolonged treatment,

ropriate diagnostic measures should be taken to rule out endometrial pathology.

Expulsion
 Partial or complete expulsion of Mirena may occur (see PRECAUTIONS, Conti

ratal or complete expulsion of Mirena may occur (see PHECAUTUMS, Commutation of Removal).

mptoms of the partial or complete expulsion of any IUD may include bleeding or pain, wever, the system can be expelled from the uterine cavity without the woman noticing it tritle expulsion may decrease the effectiveness of Mirena. As menstrual flow hipically recases after the first 3 of months of Mirena use, an increase of menstrual flow may indicative of an expulsion. If expulsion has occurred, Mirena may be replaced within

intervention is not usually required.

10. Breast Cancer
Women who currently have or have had breast cancer, or have a suspicion of breast cancer, should not use hormonal contraception because breast cancer is a hormone-sensitive tumor.

Spontaneous reports of breast cancer have been received during postmarketing experience with Mirena. Because spontaneous reports are voluntary and from a population of uncertain size, it is not possible to use post-marketing data to reliably estimate the frequency or establish causal relationship to drug exposure. Two observational studies have not provided evidence of an increased risk of breast cancer during the use of Mirena.

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AGE GROUP						
METHODS	15–19 years	20-24 years	25–29 years	30-34 years	35–39 years	40-44 years
No Birth Control Method/Term	4.7	5.4	4.8	6.3	11.7	20.6
No Birth Control Method/Abortion	2.1	2.0	1.6	1.9	2.8	5.3
IUD Periodic Abstinence Withdrawal Condom Diaphragm/Cap Sponge	0.2 1.4 0.9 0.6 0.6 0.8	0.3 1.3 1.7 1.2 1.1 1.5	0.2 0.7 0.9 0.6 0.6 0.8	0.1 1.0 1.3 0.9 0.9 1.1	0.3 1.0 0.8 0.5 1.6 2.2	0.6 1.9 1.5 1.0 3.1 4.1
Spermicides Oral Contraceptives Implants/Injectables Tubal Sterilization Vasectomy	1.6 0.8 0.2 1.3	1.9 1.3 0.6 1.2	1.4 1.1 0.5 1.1	1.9 1.8 0.8 1.1	1.5 1.0 0.5 1.2	2.7 1.9 0.6 1.3

PRECAUTIONS PATIENTS SHOULD BE COUNSELED THAT THIS PRODUCT DOES NOT PROTECT AGAINST HIV INFECTION (AIDS) AND OTHER SEXUALLY TRANSMITTED DISEASES.

when a and business of military area institutions about any of the uterus is complete in order to reduce the incidence of perforation and expulsion. If involution is substantially delayed, consider waiting until 12 weeks postpartum (see WARNINGS, Perforation).

expulsion. If involution is substantially delayed, consider waiting until 12 weeks postpartum (see WARNINGS, Perforation).

Patients with certain types of valvular or congenital heart disease and surgically constructed systemic-pulmonary shurts are at increased risk of infective endocardits. Use of Mireria in these patients may represent a potential source of septic emboli. Patients with known congental heart disease who may be at increased risk should be treated with appropriate artibiotics at the time of insertion and removal. Patients requiring chronic corticosterold therapy or insulin for diabetes should be monitored with special care for infection.

Mirena should be used with caution in patients who have:

- coaquiopatry or are receiving anticoagulants:

- migraine, focal migraine with asymmetrical visual loss or other symptoms indicating transient cerebral schemia

- exceptionally severe headache
- marked increase of blood pressure
- severe arterial disease such as stroke or myocardial infarction
- Insertion Precauditions

Observe strict asepsis during insertion. The presence of organisms capable of establishing PIC cannot be determined by appearance, and IUD insertion may be associated with introduction of vaginal bacteria into the utens. Administration of antibiotics may be considered, but the utility of this treatment is unknown.

Carefully sound the uterus prior to Mirena insertion to determine the degree of patency of the endocervical canal and the internal os, and the direction and depth of the uterine cavity. In occasional cases, severe cerevical stenosis may be encountered. Do not use excessive force to overcome this resistance. Fundal positioning of Mirena is important to prevent expulsion and maximize efficacy. Therefore, follow the instructions for the insertion carefully. If the patient develops decreased pulse, perspiration, or pallor, have her remain supine until these signs resolve. Insertion may be associated with some pain and/or bleeding. Syncope, bradycardia, or other neurovascular episodes may occur during insertion of Mirena, especially in patients with a predisposition to these conditions or cervical stenosis.

these conditions or cervical stenosis.

Continuation and Removal

Rescamine and evaluate patients 4 to 12 weeks after insertion and once a year threatter, or more frequently if clinically indicated.

If the birracts are not visible, they may have retracted into the uterus or broken, or Mirera may have breach, perforated the uterus, or been expelled (see WARNINGS, Perforation and Expulsion). If the length of the threads has changed from the length at time insertion, perforated the uterus, or been expelled (see WARNINGS, Yerlordon and Expulsion). All the length of the threads has changed from the length at time in the expulsion of the length of the disciplinated. Programmy for the experiment of the length of the properties of the experiment of the uterine carly with a probe it Mirera is displaced, remove it. A new Mirera may be inserted at that time or during the next menses if it is certain that conception has not occurred. If Mirera is in place with no evidence of perforation, no intervention is indicated.

Promotile yearning tears with companies of ania not groups discharge uperchained.

Promptly examine users with complaints of pain, odorous discharge, unexplained bleeding (see WARNINGS, Irregular Bleeding and Amenormhea), fiver, genital lesions or sores.

Consider the possibility of ectopic pregnancy in the case of lower abdominal pain especially in association with missed periods or if an amenorrheic woman starts bleeding (see WARNINGS, Ectopic Pregnancy).

In the event a pregnancy is confirmed during Mirena use:

Determine whether pregnancy is ectopic and, if so, take appropriate measures.

Inform patient of the risks of leaving Mirena in place or removing it during pregnancy and of the lack of data on long-term effects on the offspring of women who have had Mirena in place during conception or gestation (see WARNINGS, Kinatusterine Pregnancy).

If possible, Mirena should be removed after the patient has been warmed of the risks of removal. If removal is difficult, the patient should be counseled and offered pregnancy termination.

If Mirena is left in place, the patient's course should be followed closely.

Should the patient's relationship cease to be mutually monogamous, or should her partner become HII/postikey or acquire a sexually transmitted diseases, she should be instructed to report this change to her clinician immediately. The use of a barrier method as a partial protection against acquiring sexually transmitted diseases should be strongly recommended. Removal of Mirena should be considered. Mirena should be the removed for the following medical reasons:

menornhagia and/or metrorrhagia producing anemia
acquired immune deficiency syndrome (AIDS)
sexually transmitted disease
pelvic infection; endomentritis
symptomatic genital actinomycosis
intractable pelvic pain
severe dyspareunia
pregnancy
endomentrial or cervical malignancy
uterine or cervical perforation

Removal of the system should also be considered if any of the following conditions arise for the first time;

tenne or cervical perforation noval of the system should also be considered if any of the following conditions e for the first time: ligratine, focal migraine with asymmetrical visual loss or other symptoms didicating transient cerebral ischemia

jaundice, marked increase of blood pressure marked increase of blood pressure severe arterial disease such as stroke or myocardial infarction emoval may be associated with pain and/or bleeding or neurovascular episodes. Clucose Tolerance
evonorgestrel may affect glucose tolerance, and the blood glucose concentration
hould be monitored in diabetic users of Mirena.

6. Drug Interactions
The influence of drugs on the contraceptive efficacy of Mirena has not been studied
The metabolism of progestogens may be increased by concomitant use of substances known to induce drug-metabolizing liver enzymes, specifically cytochrome P450 enzymes. 7. Carcinogenesis

Long-term studies in animals to assess the carcinogenic potential of levonorgestre releasing intrauterine system have not been performed (see WARNINGS).

8. Pregnancy Pregnancy Category X (see WARNINGS).

Pregiatory Acted Paramitody.
9. Nursing Mothers
line general, no adverse effects have been found on breastfeeding performance or on the health, growth, or development of the infant. However, isolated post-marketing cases of decreased milk production have been reported. Small amounts of progestins pass into the breast milk of nursing mothers, resulting in detectable steroid levels in infant plasma. Also, see WARNINGS, Perforation.

10. Pediatric Use
Safety and efficacy of Mirena have been established in women of reproductive age. Use of this product before menarche is not indicated.

11. Geriatric Use
Mirena has not been studied in women over age 65 and is not currently approved for

The most serious adverse reactions associated with the use of Mirena are discussed above in the WARNINGS and PRECAUTIONS sections. Very common adverse reactions (-1/10 users) include uterinelyaginal bleeding, including spotting, irregular bleeding, heavy bleeding, oligomenorities and amenorities) and ovarian cysts. Other adverse events are listed below using MedDRA (9.0) terms. Adverse reactions reported by 5% or more of climate that subjects include: Abdominal/pelvic pain.

Abdominal/pelvic pain.

Breast pain/tende Acne Decreased libido Depressed mood

anicolaou smear normal, class II

Postmarketting Experience
The following adverse reactions have been identified during post approve device breakage and angioedema. Because these reactions are reported a population of uncertain size, it is not always possible to reliably estimat or establish a causal relationship to drug exposure.

Manufactured for:



Bayer HealthCare

Pharmaceuticals

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July 2008