IOM: Phase In P4P Slowly, Evaluate Each Step

BY JANE ANDERSON

Contributing Writer

he U.S. Department of Health and Human Services should gradually replace Medicare's current payment system with a pay-for-performance system that would reward physicians and other providers for efficiency along with patient-centered, quality care, according to a report from the Institute of Medicine.

Pay-for-performance plans do not yet

have an established track record of improving care, so IOM's report, "Rewarding Provider Performance: Aligning Incentives in Medicare," urges a phased-in program that will evaluate pay-for-performance initiatives as they are implemented.

Pay-for-performance will help transform the Medicare payment system into one that rewards both higher value and better outcomes, Robert Reischauer, Ph.D., president of the Washington-based Urban Institute, said at a press briefing sponsored by IOM. Dr. Reischauer served on the committee that wrote the report.

"The committee does not feel that pay for performance is the magic bullet," he said. "Pay for performance should be considered one of several key elements needed to restructure the current payment system."

Any changes in Medicare's payment system would need to be approved by Congress. The panel's report urged lawmakers to adopt an initial system that would reduce base Medicare payments across the board and use the money to fund rewards for strong performance. At the same time, Medicare officials would evaluate the program to make certain it is having the desired effects.

The proportion of Medicare payment withheld would be small at first, and providers would be compensated both for excellent work and for improving their performance in areas that encompass care quality, efficiency, and "patient centeredness."

We are recommending a performancebased system in which both excellence is rewarded and significant improvement is rewarded," Dr. Reischauer said. "Everyone can play and everyone can get back the money that was withheld initially from

Many large health care providers and organizations already have the capacity to begin participating in a Medicare pay-forperformance system and should be required to do so as soon as it is launched, the IOM report said. However, participation by small physician practices should be voluntary for the first 3 years.

Gail Wilensky, Ph.D., a senior fellow at Project HOPE and a member of the IOM

Excellence and significant improvement will be rewarded, so 'everyone can play and everyone can get back the money that was withheld initially from them.'

panel, said she would expect most physicians to welcome a new, pay-forperformancebased system.

"Many physicians have complained that, when participating in Medicare, they are penalized if they provide care that's

more prevention-oriented," said Dr. Wilensky, who noted that a pay-for-performance-based system would reward those physicians. "This is in many ways a response to some of that criticism by physicians."

Panel member Dr. Robert Galvin, director of global health care for General Electric Co., agreed. "There is a substantial percentage of physicians who like these programs [and] who like the idea of working in teams and having their performance rewarded," he said. "There is already a culture shift going on among a good group of physicians.

Public reporting of quality results also would serve as a strong motivator for physicians and other providers to improve their results, Dr. Wilensky said.

The panel did not specify how much Medicare base payments should be decreased to create a pool of funds for bonus payments, but recommended that the percentage be sufficient to create rewards large enough to motivate health care providers' participation and real improvements.

Committee members acknowledged that Medicare physician fees are scheduled to decline over the next few years, and said that Congress may need to add some new money to physician payments to make sure that the reward pool is sufficient.

Rheumatrex See Full Prescribing Information Rx Only

HNINUS. Hithteeate should be used only by physicians whose knowledge and experience include the use of antimetabolite Brapy Begause of the possibility of serious toxic reactions (which can be fatal). Methotrexate should be used only in Life Threatening Neoplastic Diseases, or in patients with psoriasis or rheuma-colo arthritis with severe, recalcitrant, diseabing disease which is not adequately responsive to ther pornis of thera-

PY. DEATHS HAVE BEEN REPORTED WITH THE USE OF METHOTREXATE IN THE TREATMENT OF MALIGNANCY, PSORIASIS, AND RHEUMATOID

ARIHAILIS. Parients should be closely montored for bone marrow. Liver, lung and kidney toxicities, (see **precautions.)** Parients should be informed by Their Physician of the risks involved and be under a physician's care throughout Therapy

PATIENTS SHOULD BE INFORMED BY THEIR PHYSICIAN OF THE RISKS INVOIVED AND BE UNDER A PHYSICIANTS CARE THROUGHOUT THERAPY.

Methotexate has been reported to cause fetal death and/or congenital anomalies. Therefore, it is not recommended for women of childbearing potential unless there is clear medical evidence that the benefits can be expected to outweigh the considered risks. Pregnant women with psoriasis or rehumation aftrints should not receive methoretax; (see CONTRAINIOLATIONS.)

Methotexate elimination is reduced in patients with impaired renal function, ascites, or pleiral effusions. Such patients require especially careful monitoring for toxicity, and require does reduction or, in some cases, discontinuation of methotexate administration.

Unexpectedly severe (sometimes bital) bone marrow suppression, aplastic anemia, and gastrointestinal toxicity have been reported with concomitant administration of methotexate (usually in high dosage) along with some non-sterioidal anti-inflammatory drugs (NSAIDs). (See PRE-CAUTIONS, Drug Interactions.)

Methotreate causes hepatotoxicity, fibrosis and cirrhosis, but generally only after prolonged use. Acutely, liver enzyme elevations are frequently seen. These are usually transient and asymptomatic, and also do not appear predictive of subsequent hepatic disease. Liver biopsy after sustained use often shows histologic changes, and fibrosis and cirrhosis tave been reported, these latter lisions may not be preceded by symptoms or abnormal liver function tests in the psoriasis population. For this reson, periodic liver biopsies are usually recommended for psecially and with the throughout administry. Hapatic in the throughout administry places in the sporiasis population. For this reson, periodic liver biopsies are usually recommended for psecial in the rhumation darfinist goopulation. See PRECAUTIONS. Organ System Grounds, Papatic.

Methotrexate-induced lung disease is a obsertable dangerous liver brown of the proper day doses as low as 7 molycelle. It is not always fully

require interruption of treatment and careful investigation.
Diarrhea and ulcerative stomatitis require interruption of therapy; otherwise, hemorrhagic enteritis and death from intestinal perforation may

Malipant lymphomas, which may regress following withdrawal of methotrexate, may occur in patients receiving low-dose methotrexate and, thus, may not require cytotoxic treatment. Discontinue methotrexate first and, if the lymphoma does not regress, appropriate treatment should

be instituted.

Like other cytotoxic drugs, methortexate may induce "tumor lysis syndrome" in patients with rapidly growing tumors. Appropriate supportive and pharmacologic measures may prevent or alleviate this complication.

Severe, occasionally fatal, skin reactions have been reported following single or multiple doses of methortexate. Reactions have occurred within days of oral, intramussular, intravenous or intrathecal methotrexate administration. Recovery has been reported within app. (See PRECAUTIONS, Oran Sestem Travenous or intrathecal methotrexate administration. other virgination uses in requirement of alleviate this complication, re, occasionally latal, skin reactions have been operated following single or multiple doses of methotrexate. Reactions have occurred with so of oral, intramuscular, intraversion, or intrafficed methotrexate administration. Recovery has been reported with discontinuation of ther-lay latal opportunities infections, especially Prieumocystis carinii pneumonia, may occur with methotrexate therapy, rexate given concomitantly with radiotherapy may increase the risk of soft tissue necrosis and osteonecrosis.

neoplastic Diseases

Methotreate is indicated in the treatment of gestational choriocarcinoma, chorioadenoma destruens and hydatidiform mole.

Methotreate is used in maintenance therapy in combination with other chemotherapeutic agents.

Methotreate is used alone or in combination with other anticancer agents in the treatment of breast cancer, epidermoid cancers of the head and neck, advanced mycosis fungiodes (cultaneous I cell lymphoma, and fung cancer, particularly squamous cell and small cell types. Methotrexate is also used in combination with other chemotherapeutic agents in the treatment of advanced stage non-Hodgkin's lymphomas.

Methotreate is indicated in the symptomatic control of severe rearehitment disable.

Positiasis
Methoriscate is indicated in the symptomatic control of severe, reactionant, disabling pasnriasis that is not adequately responsive to other forms of thegray, but only when the diagnosts has been established as by biogoy and/or after dematologic consultation. It is important to ensure that a psoriasis
"lare" is not due to an undiagnosed concomitant disease affecting immune responses.
Rheumatoid Arthritis including Polyarticular-Quaries Juvenille Rheumatoid arthritis, who have had an instificent therapetic response to, or are intellerant of, an adequate trial of first-line therapy including jul dose enon-sectional arthritism appeared (SASIAS). Apprint, ISAIDs, and/or low dose steroids may be continued, althritism therapetic response to city with concomitant use of NSAIDs included and may increase the incidence of adverse effects. Rest and physiotherapy as including espicials brought or continued.

CONTRAINIDICATIONS.

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may increase the incidence of adverse effects. Hest and physiotherary as indicated should be continued.

CONTRAINDICTIONS fell death or teratopenic effects when administered to a pregnant woman. Methotrexate is contraindicated in pregnant women with sporsiss or rehumation affirmitis and should be used in the treatment of neighbstic diseases only when the potential benefit outwights the risk to the fetus. Women of childrearing potential should not be started on methotrexate until pregnancy is evoluted and should be fully counseled on the serious risk to the fetus. (See PRECAUTIONS) should they become pregnant while undergoing treatment. Pregnancy should be avoided if either particular receiving methor-treate, during and for a minimum of three months after threnzy for riale patients, and during and for at least one ovuldatory cycle after therapy for female patients, (See Boxet MARNINGS.)

Because of the potential for serious adverse mactions from methotrexate in breast fed infants, it is contraindicated in nursing mothers. Patients with psoraiss or rehumation afthritis with alcoholism, alcoholic liver disease or other chronic liver disease should not receive methotrexate. Patients with psoraiss or rehumation afthritis who have over or abovatory evidence of immunodeliency syndromes should not receive methotrexate. Patients with psoraiss or rehumation after this who have nerver of abovatory evidence of immunodeliency syndromes should not receive methotrexate in syndrome and the should not receive the drug.

WARNINGS. SEE BOXED WARNINGS.

Methodreade (communications and diluents containing preservatives must not be used for intrathecal or high dose methotrexate therapy.

HIGH TRANSPORT TRANSPORTS.

HIGH Method reade formulations and diluents containing preservatives must not be used for intrathecal or high dose methotrexate therapy. PRECAUTIONS

xate has the potential for serious toxicity. (See Boxed WARNINGS.) Toxic effects may be related in frequency and severity to dose or frequen Methorevale has the potential for serious toxicity, (See Boxed WARMINGS.) look effects may be related in Trequency and severity to dose or frequen-cy of administration but have been seen at all doses. Because they can occur in any time during therapy, its necessary to follow patients on methorex-ate closely. Most adverse reactions are reversible if detected early. When such reactions do occur, the drug should be reduced in dosage or discontin-ued and appropriate correct measures should be taken if necessary, his could include the use of locurorem calcium and/or acute, intermittent hemodial-sys with a high-flux dialyzer. (See OVERDOSAGE.) In methotrexate therapy is reinstituted, it should be carried out with caution, with adequate consid-eration of further need for the drug and with increased alterness as to possible recurrence of toxicity.

The clinical pharmacolopy of methorizeta has not been well studied in older individuals. Due of indimished hepatic and renal function as well as decreased folate stores in this population, relatively low doses should be considered, and these patients should be closely monitored for early signs of

toxicity, Information for Patients
Patients should be informed of the early signs and symptoms of toxicity, of the need to see their physician promptly if they occur, and the need for close follow-up, including periodic laboratory tests to monitor toxicity.
Both the physician and pharmacist should emphasize to the patient that the recommended dose is taken weekly in rheumatoid arthritis and psoriasis, and that mistaken daily use of the recommended dose had to trial toxicity. Patients should be encouraged to read the Patient Instructions sheet with-patients that the patient in the Dose Pack. Prescriptions should not be written or refilled on a PRIV fasis.
Patients should be informed of the potential benefit and risk in the use of methodrevate. The risk of effects on reproduction should be discussed with both male and fenale patients taking methodrevate.

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Droug Interactions
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Concomitant administration of some INSAIDs with high dose methorrexate therapy has been reported to elevate and prolong serum methotrexate levelse, resulting in deaths from severe hematologic and gastrointestinal toxicity.
Caution should be used when INSAIDs and salicylates are administered concomitantly with lower doses of methotrexate. These drugs have been reported to reduce the tubular secretion of methotrexate in an animal model and may enhance its bioxicity.
Despite the potential interactions, Sudies of methotrexate in patients with requirable at his bave usually included concurrent use of constant dosage regimens of INSAIDs, without apparent problems. It should be appreciated, however, that the doses used in rehumatoid arthrifts (7.5 to 15 mg/week) are somewhat tower than those used in propriess and that larger doses could lead to unexpected toxicity.
Methotrexate is partially bound to serum albumin, and toxicity may be increased because of displacement by cartain drugs, such as salicylates, phenyllumonal toxicity, and sufformatides. Renal tubular transport is also diminished by profesories and that the displacement by cartain drugs, such as salicylates, phenyllumonal toxicity.

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azone, prehytori, and sundoramious, eneral touriar transport is also diminished by proceneou; use of memorbrazale with mis originary monitored.

Oral antibiotics such as tetracycline, chloramphenicol, and nonabsorbable broad spectrum antibiotics, may decrease intestinal absorption of methotrezate or interfere with the enterchapatic circulation by inhibiting bowel flora and suppressing metabolism of the drug by bacteria.

Penicillism may reduce the renal clearance of methotrezate; increased serum concentrations of methot-recate with concomitant hematologic and gastrointestinal toxicity have been observed with methotrezate. Use of methotrezate with penicillism sould be carefully monitored.

The potential for increased hepatotoxicity when methotrezate is administered with other hepatotoxic agents has not been evoluted. However, hepatotoxicity has been reported in such cases. Therefore, patients receiving concomitant therapy with methotrezate and other potential hepatotoxicity, when methotrezate is administered with other hepatotoxicity.

Methotreate may decrease the clearance of theophylline; theophylline levels should be monitored when used concurrently with methotrezate. Certain side effects sould as sould associate and with the receiving methotrexate, probably by an additive antibiotical effect.

Inimethoprimisulfa-methoxazole has been reported rarely to mcrease ooie marrow suppression in parameters. In the artificiale effect.

Carchiogenesis, Mutagenesis, and Impairment of Fertility
Carchiogenesis, Mutagenesis, and Impairment of Fertility
No controlled human data exist regarding the risk of neoplasa with methotrexate. Methotrexate has been evaluated in a number of animal studies for carcinagenic potential with inconclusive resists. Although there is evidence that methotrexate has been experted in patients receiving journess of the methotrexate. However, there have been inschased on malarinal hymphoma and grid unding tratement with hord-ose or all methotrexate, which have regressed completely following withdrawal of methotrexate, without requiring active anti-lymphoma treatment. Benefits should be weighted against the potential risks before using methotrexate alone or in combination with other drugs, especially in pediatric patients or young adults. Methotrexate causes embryotoxicity, abortion, and fetal defects in humans. It has also been reported to cause impairment of fertility, oligospermia and menstrual dysfunction in humans, during and for a short period after cessation of therapy.

Nursing Mothers
See CONTRAINDICATIONS.
Pediatric Use y and rheumatoid arthritis: Methotrexate is in Pregnancy Category X. See **contraindications**.

diatric Use ety and effectiveness in pediatric patients have been established only in cancer chemotherapy and in polyarticular-course juvenile rheumatoid arthri-

its.

*Published clinical studies evaluating the use of methotrexate in children and adolescents (ie, patients 2 to 16 years of age) with JRA demonstrated safe-by comparable to that observed in adults with rheumatoid arthritis. (See CLINICAL PHARIMACOLOGY, ADVERSE REACTIONS and DOSAGE AND ADMINIS-

Published clinical studies evaluating the use or menuncease an entire comparable to that observed in adults with rheumatoid arthritis. (See CLINICAL PHARMACOLUGY, AUVENOR CLINICAL PHARMA

Hematologic: Methorexate can suppress hematopoiesis and cause anémia, aplastic anemia, pancytopenia, pleutopenia, neutropenia, and/or thrombory topenia. In plateins with malignancy and preaxisting hematopoietis impairment; the drug subtide be sed with caution, if at all in controlled clinical trivals in rheumatoid arthritis (n=128), leukopenia (MSC <3000/mm²) was seen in 2 patients, and pancytopenia in 2 patients.
In psonsiss and rheumatoid arthritis, methotrexale should be stopped immediately if there is a significant drop in blood counts. In the treatment of method practice, seems, methorexale should be continued only if the operation benefit varants the risk of severe myelosuppression. Patients with profound granuloyotopenia and fever should be evaluated immediately and usually require parenteral broad-spectrum antibiotic therapy. Heraptic Methotrovate has been potential for abid (elevated transaminases) and chronic (fibrosa and crinosis) hepatoloxicity. Chronic toxicity is potentially fatal it generally has occurred after profonged use (generally two years or more) and after a total dose of at least 1.5 grams. In studies in possibility and accurate incidence rate has not been determined the rate of progression and reversibility of lesions is not known. Special caudion is indicated in the presence of preessing liner dranage or immained heapted function.

In psycholoxic profession in the studies of possibility of lesions is not known. Special caudion is indicated in the presence of preessing liner dranage or immained heapted function.

In psycholoxic profession and profession and profession crimosis. These bestors may be detectable only by bloosy. The usual recommendation is to obtain a liver biopsy at 1) pretherbary or shortly after profession in the profession crimosis. These bestors may be detectable only by bloosy. The usual recommendation is to obtain a liver biopsy at 1) pretherbary or shortly after those so or crimosis. These bestors may be detectable only by bloosy. The usual recommendation is to obta

neoplastic diseases. Other Precautions: Methodrexate should be used with extreme caution in the presence of debility. Methodrexate exis slowly from third space compartments (eg., pleural effusions or ascites). This results in a prolonged terminal plasma half-life and unex-pected toxicity. In patients with significant third space accumulations, it is advisable to evacuate the fluid before treatment and to monitor plasma methodrexate level. Lesions of psortiasis may be aggravated by concomitant exposure to ultraviolet radiation. Radiation dermatitis and sunburn may be "recalled" by the use of methodrexate.

LEADNIS OF INFORMATION AND SEVERITY OF ACUTE SIDE EFFECTS ARE RELATED TO DOSE AND FREQUENCY OF ADMINISTRATION. THE MOST SERIOUS REACTIONS ARE DISCUSSED ABOVE UNDER ORGAN SYSTEM TOXICITY IN THE PRECAUTION SECTION. THAT SECTION SHOULD ALSO BE CONSULTED WHEN LOONING FOR INFORMATION ABOUT ADDRESS REACTIONS WITH MEMBRING ABOUT ADDRESS REACTIONS WITH A REPORT ADDRESS AND AD

all mentary System gipedits, pharprights, stormatis, amoreae, nausea, vorniting, diarrhea, hemalemesis, melena, gastrointestinal ulceration and bleeding, enterlish, pancrealia.

Bold and Lymphaliat System Disorders: suppressed hematopolesis causing anemia, aplastic anemia, pancytopenia, leukopenia, neutropenia and/or thrombocytopenia, lymphadenogathy and lymphonoilleralive disorders (including reverbible). Hypogammaglodulinemia has been reported rarely.

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common reactions included decreased hematocrit, headache, upper respiratory infection, anorexia, arthralgias, chest pain, coughing, dysuria, offer, epistaxis, fever, infection, sweating, tinnitus, and vaginal discharge.

OVERDOSAGE

Leucovorin is indicated to diminish the toxicity and counteract the effect of inadvertently administered overdosages of methotrexate. Leucovorin administration is promptly as possible. As the time interval between methotrexate administration and leucovorin initiation increases, the effectiveness of leucovorin in counteracting toxicity decreases. Monitoring of the serum methotrexate concentration is essential in determining the optimal obes and duration of treatment with leucovorin.

In cases of massive overdosage, hydration and urinary alkalimization may be necessary to prevent the precipitation of methotrexate and/or its metabolities in the renal hubbles. Generally speaking, neither hemotialysis nor pertinenal dishis have been shown to improve methotrexate elimination.

Number of the renal hubbles. Generally speaking, and the method with acute, intermittent hemodialysis using a high-flux dialyzer (Wall, SM et al: Am J Klindey IDS 28(6): 646-654, 1995).

Kidney Dis 28(6): 846-654, 1996).

In postmarketing experience, overdose with methotrexate has generally occurred with oral and intrathecal administration, although intravenous and intransucular overdose have also been reported. Reports of oil overdose thave also been reported. Reports of oil overdose of the indicate accidental daily administration instead of weekly (single or divided doses). Symptoms commonly reported following oral overdose include those symptoms and signs reported at pharmacologic doses, particularly hematologic and gastrointestinal reaction. For example, leukopenia, thrombocytopenia, anemia, pastrojonenia, borne marvos suppression, mucosifis, stomatistic, oral lucization, nasay, vomiting, gastrointestinal bleeding. In some cases, no symptoms were reported. There have been reports of death following overdose, in these cases, events such as sepsis or septic shock, renal failure, and aplastic anemia were also reported.

The full report is available at www.iom.edu.