perthyroidism medication.

Because they are electronic, she can insert the checklists right into the patient's record. That means "it is very easy to just throw in the numbers," she said. "I feel like I am missing fewer things.'

Her diabetes template contains five sections, with the optimal goal value for each section listed underneath that

particular heading. The section headings are glycemic control, blood pressure, lipids, antiplatelet therapy, and smoking status.



She also uses the Touch-Works system to send herself reminders to follow up on patients at appropriate intervals and ensure that their medical conditions are optimally managed.

With these measures, patients are now presenting with better control over medical conditions, increased dedication to weight loss and physical

fitness, and more complete and comprehensive health maintenance care," Dr. Ilias said.

## Wallet Cards Provide a **Traveling Medical History**

When patients travel, they sometimes need medical attention or end up in the emergency department while far from home.

With people traveling domestically and internationally now more than ever, you never know where your patients will be when they become ill," said Dr. Chirayu Shah, a third-year resident in internal medicine at Baylor College of Medicine, Houston. "When these patients go to the hospital in a different city, their medical record usually does not follow

As a resident, Dr. Shah spends a lot of time in the emergency department. He said that when patients come in, they often mention a preexisting condition but do not have specifics.

Dr. Shah, therefore, suggests that physicians get small, fold-over business cards on which they could print a list of a patient's current diagnoses and medications. The patient could carry the card in his or her wallet.

The would be updated once a year, or more often if necessary. On the outside, card would say "confidential." and on the inside, the text would include the primary physician's



name and telephone number, the date it was printed, and a disclaimer saying that all information should be verified.

In the emergency department, physicians see patients with chest pain who are not exactly sure of their medical history and who may be on warfarin or clopidogrel. They see patients who take a medication but are not sure what it is called just that it is a square green pill, for example. They see patients who are on pain medications and are obtundent when they come in. "They always say, 'Oh, they told me I have some problem with my kidneys," Dr. Shah said. "That helps a little bit, but not much.

'The ER physician has to rely on the patient for accurate medical information, which can often be problematic," he added. "These cards would prove invaluable to ER physicians or even consult physicians.

Articles by Tim Kirn, Sacramento Bureau. Look for the next installment of this column in the Dec. 1 issue of Internal Medicine News.

## **Hotline Expands** Medicare Advice

→he Medicare Rights Center's Professional Hotline has expanded its service to include guidance and advice on Medicare benefits, rights, and options to professionals working with older adults and people with disabilities who are on Medicare.

Until now, the hotline has focused on guidance for Medicare prescription drug benefits through private drug plans. The service is available free, Monday through Friday, from 10:00 a.m. to 6:00 p.m. EST, at 877-794-3570.

Other events reported by 1% or more of natients with early Parkinson's disease and treated with Mirapex" (pramipeoole displaceholoside) tablets but reported equally or more frequently in the placebo group were infection, accidental injury, headache, pain, terror, back pain, synopee, postural hypotension, hypotension, hypotension, depression, addominal pain, arrivally, depepasis, fishularoca, diarrhe, area, bates, dry morth, error pramated synoprome, leg cramps, brutchin, pharynquis, soutilis, swending, finitis, urinary tract infection, vascridistion, flu syndrome, increased salke, both disease, dysprea, increased cough, pat ahnomalities, urinary frequency, vomitins, adjurgic, area total may be presented to the property of the participant of the

transient.

Approximately 7% of 575 patients treated with MIRAPEX tablets during the double-blind periods of three placebo-controlled trials discontinued treatment due to adverse events compared to 5% of 223 patients who received placebo. The adverse event most commonly causing discontinuation of treatment was nausea (1%).

This section lists treatment-emergent events that occurred in three double-blind, placebo-controlled studies in RLS patients that were reported by 2% or more of patients treated with MIRAPEX tablets and were numerically more frequent than in the placebo

group.

The prescriber should be aware that these figures cannot be used to predict the incidence of adverse events in the course of using medical practice where patient characteristics and other factors differ from those that prevailed in the clinical studies. Similarly, the cited frequencies cannot be compared with figures obtained from other clinical investigations involving different treatments, uses, and investigators. However, the cited frequencies of provide the prescribing physician with some basis for estimating the relative contribution of drug and nondrug factors to the adverse-event incidence rate in the population studied.

Treatment-emergent adverse events are listed by body system in order of decreasing incidence for MIRAPEX tablets (N=575) vs placebo (N=223), respectively. Gastrointestinal disorders: nausea (16% vs 5%), constipation (4% vs 1%), cliarrhea (3% vs 1%). Farmous system disorders: headache (16% vs 15%), somnolence (6% vs 3%). Patients may have reported multiple adverse experiences during the study or at discontinuation; thus, patients may be included in more than one category.

may have reported multiple adverse expenences during the study or at discontinuation; thus, patients may be included in more than one category.

This section summarizes data for adverse events that appeared to be dose related in the 12-week fixed dose study. Dose related adverse events in a 12-week, double-blind, placebo-controlled, fixed dose study in Restless Legs Syndrome (occurring in 5% orner of all patients in the treatment phase) are listed by body system in order of decreasing incidence for MIRAPEX (0.25 mg [N=88]; 0.5 mg [N=80]; 0.75 mg [N=90]) vs placebo (n=86), respectively. *Gastrointestinal disorders*: nausea (11%; 19%; 27% vs 5%), diarrhea (3%; 1%; 7% vs 0%), dyspepsia (3%; 1%; 4% vs 7%). *Infections and Infestations:* influenza (14%; 49%; 7% vs 14%). *General disorders and administration site conditions*: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7% vs 5%). *Psychiatation site* conditions: fatigue; (3%; 5%; 7%).

her vents reported by 2% or more of RLS patients treated with Mirapex® (pramipexole dihydrochloride) tablets but equally or more requently in the placebo group, were: vomiting, nasopharyngitis, back pain, pain in extremity, dizziness, and insomnia.

Other Aversie Reputite by 2% of milor of Hzs. Datients in Realed with Milarpex\* (Traintipe-leave Information) glacely abuels but equally of more frequently in the placebo group, were: vomiting, nasopharyngits, back pain, pain in externity, dizziness, and insominal. Adverse Events; Relationship to Age, Gender, and Race: Annong the treatment-emergent adverse events in patients treated with MIRAPEX tablets, hallicination appeared to exhibit a positive relationship to age in patients with Parkinson's disease. Although no gender-related differences were observed in Parkinson's disease patients, nausea and fatigue, both generally transient, were more frequently reported by fernale than male RLS patients. Less than 4% of patients enrolled were non-Caucasian, therefore, an evaluation of adverse events related to race is not possible.

Other Adverse Events Deserved During Phase 2 and 3 Clinical Trials: MIRAPEX tablets have been administered to 1620 Parkinson's disease patients and to 889 RLS patients in Phase 2 and 3 clinical trials. During these trials, all adverse events were recorded by the clinical investigators using terminology of their own choosing; similar types of events were grouped into a smaller number of standardized categories using MedDRA dictionary terminology. These categories are used in the listing below. Adverse events which are not listed above but occurred on at least two occasions (one occasion if the event was serious) in the 2509 individuals exposed to MIRAPEX tablets are listed below. The reported events below are included without regard to determination of a causal relationship to MIRAPEX tablets. Bload and Imphatis system disorders: amenia, iron deficiency anemia, leukocytosis, leukopenia, lymphadenitis, lymphadenitis, lymphadenitis, branch block, cardiac arrest, cardiac failure, cardiac failure congestive, cardiomegaly, coronary artery occlusion, cyanosis, extrasystoles, leth ventricular failure, myocardial infarction, notial cardiacy disorders occurred in a patient of the ventricular failur

irritable bowel syndrome, esophageal spasm, esophageal stenosis, esophagilis, pancrealitis, periodontitis, rectal hemorrhage, reflux esophagilis, tongue edema, tongue ulceration, toothache, umbilical hemia. General disorders: chest discomfort, chills, death, drug withdrawal syndrome, face edema, feeling cold, feeling brit, feeling littery, gait disturbance, impaired healing, irluvanze-like illness, irritabilis, localized edema, derina, piting edema, thirst. Hepatichillary disorders: bilary colic, choleystitis, choleystitis chronic, chellithiasis, bronchopneumoria, cellutilis, systitis, dental carles, diverticulis, ear infection, eye infection, fulliculiis, trungal infection, furuncle, gangrene, gastroenteritis, gingulay infection, furepes simples, hepes zoster, hordedum, interverterbal discitis, languitis, lobar pneumonia, nail infection, onychomycosis, oral candidiasis, orchitis, ear infection, eye infection, fulliculiis, fungati infection, furuncle, gangrene, gespriadory tartification, wound infection incompetitis, opticis externa, otitis media, paronychia, proherphiris, proderma, sepsis, skin infection, tomoria, since incompetitis, oral academic and procedural complications: cachexia, decreased appetite, dehydration, diabetes mellitus, fluid retention, gout, hypercholesterolemia, hyporalmoin, hyperuficientis, hyporalmoin, hyporalmoin, hypocalemia, hypopotametrian, hyporalmoina, intervertebral disc disorders; cachexia, decreased appetite, metabolic alkalosis. Miscruloskeietal and connective issue disorders: bone pain, fascilitis, flank pain, intervertebral disc disorders, metabolic alkalosis. Miscruloskeietal and connective issue disorders: bone pain, fascilitis, flank pain, intervertebral disc disorders, and, spina, paina osteoarthritis, endontitis, tenosymotivis. Neoalasmas benign, malignant and unspecified: abdominal encellasm, shin calculation, adenocarcinoma, adenoma benign, basal cell carcinoma, bladder cancer, breast cancer, breast encelasm, colon cancer, colorectal cancer, encelasm malignant, lip andr

Palming Assete During Activities on Lany Living. Trades to activities of daily living, including operation of a motor vehicle which sometimes resulted in accidents (see bolded WARNING).

Post-Marketing Experience: In addition to the adverse events reported during clinical trials, the following adverse reactions have been identified during post-approval use of MIRAPEX tablets, primarily in Parkinson's disease patients. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Decisions to include these reactions in labeling are typically bead on one or more of the following factors: (1) seriousness of the reaction, (2) frequency of reporting, or (3) strength of causal connection to pramipsexile tablets. Similar types of events were grouped into a smaller number of standardized categories using the MedDish dictionary: abnormal behavior, abnormal deraware, accidents (including fall), blackouts, fatigue, hallucinations (all kinds), headache, hypotension (including postural hypotension), increased eating (including binge eating, compulsive eating, and hyperphagia), libido disorders (including increased and decreased libido, and hypersexuality), pathological gambling, syncope, and weight increase.

DRUG ABUSE AND DEPENDENCE

OVERDOSAGE
There is no clinical experience with massive overdosage. One patient, with a 10-year history of schizophrenia, took 11 mg/day of pramipexole for 2 days in a clinical trial to evaluate the effect of pramipexole in schizophrenic patients. No adverse events were reported related to the increased dose. Blood pressure remained stable although pulse rate increased to between 100 and 120 beat/minute. The patient withdrew from the study at the end of week 2 due to lack of efficacy.

There is no known antidote for overdosage of a dopamine agonist. If signs of central nervous system stimulation are present, a phenothiazine or other butyrophenone neuroleptic agent may be indicated; the efficacy of such drugs in reversing the effects of overdosage has not been assessed. Management of overdose may require general supportive measures along with gastric lavage, intravenous fluids, and electrocardiogram monitoring.

ANIMAL TOXICOLOGY

overdosage has not been assessed. Management of overdose may require general supportive measures aurity with yeasure revays, intravenous fluids, and electrocardiogram monitoring.

ANIMAL TOXICOLOGY

Retinal Pathology in Albino Rats: Pathologic changes (degeneration and loss of photoreceptor cells) were observed in the retina of albino rats in the 2-year carcinogenicity study with pramipexole. These findings were first observed during week 76 and were dose dependent in animals receiving 2 or 8 mg/kg/day (plasma AUCs equal to 2.5 and 12.5 times the AUC in humans that received 1.5 mg TID). In a similar study of pigmented rats with 2 years' exposure to pramipexole at 2 or 8 mg/kg/day, retinal degeneration was not diagnosed. Animals given drug had thinning in the outer nuclear layer of the retina that was only slightly greater than that seen in control rats utilizing morphometry.

Investigative studies demonstrated that pramipexole reduced the rate of disk shedding from the photoreceptor rod cells of the retina in albino rats, which was associated with enhanced sensitivity to the damaging effects of light. In a comparative study, degeneration and loss of photoreceptor cells occurred in albino rats after 13 weeks of treatment with 2 mg/kg/day of pramipexole (64 times the highest clinical dose on a mg/m² basis) and constant light (100 lux) but not in pigmented rats exposed to the same dose and higher light intensities (500 lux). Thus, the retina of albino rats is considered to be uniqued sensitive to the same dose and higher light intensities (500 lux). Thus, the retina of albino rats is considered to be uniqued sensitive to the same dose and higher light intensities (500 lux). Thus, the retina of albino rats is considered to be uniqued sensitive to the same dose and higher light intensities (500 lux). Thus, the retina of albino rats is considered to be uniqued sensitive to the same dose and higher light intensities (500 lux). Thus, the retina of dinor also on a mg/m² basis) for 12 months and minipigs given 0.3, 1, or

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Mirapex

