Rogers Awarded NIH Grant

P. David Rogers, PharmD, PhD, FCCP, First Tennessee Chair of Excellence in Clinical Pharmacy, director, Division of Clinical and Translational Therapeutics, and professor and vice chair for Research in the Department of Clinical Pharmacy at the University of Tennessee Health Science Center (UTHSC), has received a grant totaling $1,836,580 from the National Institute of Allergy and Infectious Diseases, a subsidiary of the National Institutes of Health. The renewed award will fund a study on antifungal therapy resistance. The study titled, “Novel Azole Resistance Mechanisms in Candida albicans,” will be conducted over an additional five-year period.
**TOP STORIES**

**Rogers NIH Grant – continued**

The pathogenic fungal species Candida, which is a species of yeast, is collectively the fourth leading cause of hospital bloodstream infections in the United States. Systemic yeast infections have been found to be a significant cause of morbidity and mortality. As a result, the annual cost for antifungal therapy in the United States is approaching $1 billion. Dr. Rogers and his research team seek to improve the treatment of Candida infections by understanding the molecular basis for antifungal drug resistance.

“We are very excited to have successfully renewed this award for another five years,” said Dr. Rogers. “This grant will allow us to continue our important work towards a complete understanding of microbiologic resistance to the azole class of antifungal agents in *Candida albicans* and related fungal pathogens.”

This research will ultimately contribute to the development of novel strategies for predicting treatment failure, overcoming antifungal resistance, and improving antifungal therapy.

**Chisholm-Burns Honored with Likins Inclusive Excellence Award**

Marie Chisholm-Burns, PharmD, MPH, FCCP, FASHP, University of Tennessee Health Science Center (UTHSC) College of Pharmacy dean, recently won the Peter W. Likins Inclusive Excellence Award which “recognizes individuals or groups who have demonstrated a significant contribution toward making the University of Arizona a diverse and inclusive community.” The program rewards efforts to create a supportive learning and working climate, building a robust and diverse student body and recruiting a diverse and accomplished faculty and staff. Pictured right (L to R) are Dr. Eugene Sander, current University of Arizona president, Dr. Marie Chisholm-Burns, and Dr. Peter Likins, former University of Arizona president and award namesake.
Faculty Discuss Drug Shortages with the Congress, FDA, Local Media

On February 9, 2012, Dr. Bill Greene, chief pharmaceutical officer at St. Jude Children’s Research Hospital in Memphis, spoke before Congress at a hearing on drug shortages in the United States. Greene outlined the increase in occurrences of drug shortages, their impact at St. Jude and other hospitals nationwide, and suggestions for FDA intervention to prevent and minimize shortages. Both Greene and Dr. James Hoffman, medication outcomes and safety officer at St. Jude, have addressed the FDA about the crisis, as well as high profile national conferences and the local media. In an interview with WREG News Channel 3 in Memphis, Greene said of the drug methotrexate, used to treat Acute Lymphoblastic Leukemia, “It’s essential in the end point of cure for these patients. There’s a nationwide shortage that’s been going on for several months now and the situation has gotten worse over the last few weeks.”

Dr. Dustin Smith, chief operating pharmacist at Erlanger Health System in Chattanooga, and Dr. Sandy Vredeveld, pharmacy director at Memorial Health Care, both spoke with the Chattanooga Times Free Press about shortages of everything from chemotherapy drugs to pain medications in Chattanooga hospitals. Smith said, “shortages of drugs at hospitals are going to get worse. A lot of chemotherapy drugs were in short supply last year. Most of the shortages are occurring in frequently used generic forms.”

Medling ASPEN New Pharmacist Practitioner

Theresa Medling, PharmD, was selected as this year’s recipient of the American Society of Parenteral and Enteral Nutrition (ASPEN) Pharmacy Practice Section New Pharmacist Practitioner Recognition. This award recognizes achievements of a new practitioner pharmacist or student pharmacist member of ASPEN who is involved in research furthering the science and practice of nutrition support. The purpose of this award is to encourage new practitioners to participate in nutrition support research, to provide an opportunity to share their research with experts in the field, to network with other pharmacist members of ASPEN, and to encourage future involvement in ASPEN and the Pharmacy Practice Section.

Medling received this recognition for her research poster presented at the ASPEN conference in January 2012 (research abstract detailed in presentations below). Theresa Medling is a critical care practitioner at Methodist Hospital North in Memphis and a part time faculty member. In addition to presenting her poster, Medling gave a brief presentation at the ASPEN Pharmacy Practice Business Meeting on January 22.
Finch Named American College of Critical Care Fellow

Chris Finch, PharmD, BCPS, FCCM, assistant director of Clinical Pharmacy at Methodist University Hospital in Memphis was recently awarded designation as Fellow in the American College of Critical Care Medicine at the Critical Care Congress of the Society of Critical Care Medicine in February.

The American College of Critical Care Medicine was created in 1988, when the Society of Critical Care Medicine began a tradition dedicated to the recognition of excellence. As an organization devoted to creating a greater understanding of critical care, the College emphasizes quality management in the practice and administration of critical care, focuses on leadership and underscores the importance of supervision, humane caring, communication and public opinion involving critical care.

The American College of Critical Care Medicine is committed to fostering the highest goals of multiprofessional critical care medicine, honoring individuals whose achievements and contributions demonstrate personal commitment to these goals, promoting a forum for the development of collaborative practice among the specialties and professions providing critical care, developing guidelines and practice parameters, and providing the Society with a consultative body possessing recognized expertise in the practice of critical care.

The prestigious designation of Fellow of the American College of Critical Care Medicine (FCCM) honors practitioners, researchers, administrators and educators who have made outstanding contributions to the collaborative field of critical care. Currently, less than 60 pharmacists have been granted this designation.

FACULTY PUBLICATIONS


Nolen A. Sailing Into The Wind: Ten Years of Public Policy in Health Reform to Improve Patient Safety with Health Information Technology, Cologne, Germany: Lambert Academic Publishing (LAP).

Sailing Into the Wind examines federal and state health care policies from 2000 to 2010, and chronicles their impact on the implementation rates of three health information technology patient safety strategies: Barcode Medication Administration (BCMA), Computerized Prescriber Order Entry (CPOE) and Electronic Health Records (EHRs).
FACULTY PRESENTATIONS


Swanson, JM. When should we be using tigecycline? 41st Critical Care Congress of the Society of Critical Care Medicine. February 4-8, 2012. Houston, TX.

FACULTY POSTERS


STUDENTS, GRADUATE STUDENTS & POST DOCTORAL RESIDENTS

Daniel and Yu Place in SNPhA Regions I and II Clinical Skills Competition

Student pharmacists Divya Merry Daniel and Frank Yu, pictured right, placed second in the Student National Pharmaceutical Association (SNPhA) Regions I and II Clinical Skills Competition held this year at Wingate University in Charlotte, North Carolina on February 3, 2012. Regions I and II are comprised of 34 Schools and Colleges of Pharmacy across the eastern United States.
Borden, Wassell and Regen Top 3 in ASP Patient Skills Competition

UT College of Pharmacy APhA-ASP held their annual Patient Skills Competition in February. Hamilton Borden won first place, with Katie Wassell placing second and Sloan Regen third. Hamilton will represent the College in the National Patient Counseling Competition during the APhA Annual Meeting in New Orleans in March. The following student pharmacists make up the rest of the top 10 in no particular order: Samantha Adams, Cindy Brasher, Nathan Cope, Rachel Kile, Amy Richardson, Lindsey Wells and Brian Winbigler.

Tennessee Society of Student Pharmacists Meeting

On Saturday, February 25, 2012 student pharmacists from across the state attended the 4th Annual Tennessee Society of Student Pharmacists (TSSP) Meeting in Nashville. The meeting was held the day before the ASHP Midyear Seminar and the TPA Midyear Meeting. The University of Tennessee was well-represented by 89 of the 170 participating student pharmacists who met to discuss patient care projects, present posters, and attend educational sessions.
TSSP Legislative Health Fair

Several UT student pharmacists attending the Tennessee Society of Student Pharmacists (TSS) Meeting took part in the student-organized Legislative Health Fair that was held at the Tennessee State Capitol on Monday, February 27, 2012 for members of the state legislature and their staff members. Student pharmacists provided hypertension screening and education, along with information on the importance of medication take-back programs across the state. Former Speaker of the U.S. House of Representatives, Newt Gingrich, posed with student pharmacists during his visit to the Tennessee State Capitol in advance of the upcoming Super Tuesday GOP Presidential Primary.
STUDENT POSTER


Bleeding Risks in Atrial Fibrillation Patients Requiring Triple Therapy Post Percutaneous Coronary Intervention

Table of Contents
1. STUDENT POSTER
2. BLEEDING RISKS IN PATIENTS REQUIRING TRIPLE THERAPY
3. RESIDENT PRESENTATIONS

BACKGROUND

- Patients taking chronic anticoagulant therapy (P2) with daily aspirin therapy (P1) were considered as triple therapy (P3) regimen.
- Triple therapy may also have an indication for dual therapy, such as during hospitalization or in pregnancy.
- The risk of bleeding is increased in patients on triple therapy compared to those on single or dual therapy.
- The risk of bleeding is significant in patients on triple therapy, with a risk of major bleeding ranging from 0.8% to 3.5%.
- The risk of bleeding is higher in patients on triple therapy compared to those on single or dual therapy.

RESULTS

<table>
<thead>
<tr>
<th>Table 2: Demographics and Laboratory Values</th>
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<tbody>
<tr>
<td>Treatment</td>
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<tr>
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<tr>
<td>Placebo</td>
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<tr>
<td>Triple</td>
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Table 3: Bleeding Risk Factors

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<thead>
<tr>
<th>Risk Factor</th>
<th>Placebo</th>
<th>Triple</th>
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<tbody>
<tr>
<td>Age (years)</td>
<td>60 ± 10</td>
<td>65 ± 10</td>
</tr>
<tr>
<td>Body Mass Index</td>
<td>25 ± 5</td>
<td>28 ± 5</td>
</tr>
<tr>
<td>Hypertension</td>
<td>40%</td>
<td>50%</td>
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CONCLUSIONS

- The risk of bleeding in patients on triple therapy is significantly higher compared to those on single or dual therapy.
- The risk of bleeding is increased in patients on triple therapy, with a risk of major bleeding ranging from 0.8% to 3.5%.
- The risk of bleeding in patients on triple therapy is higher than in those on single or dual therapy.

RESIDENT PRESENTATIONS


<table>
<thead>
<tr>
<th>Hospital</th>
<th>Presentation</th>
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</table>
| **Blount Memorial Hospital**     | Jessica N. Lee, PharmD: Implementation of Inpatient Glucose Monitoring of Basal-Bolus Protocol by Clinical Pharmacists  
Erin K. Morrison, PharmD: Analysis of Pharmacy Interventions in the Emergency Department  
Danielle M. Yates, PharmD: A Comparison of Predicted and Actual Vancomycin Levels in Obese Patients Using Various Pharmacokinetic Equations and Weights |
| **Centennial Medical Center - Nashville** | Adam J. Sanders, PharmD: Clinical Pharmacist Effect on Adherence and Clinical Outcomes for Renal Transplant Patients at an Outpatient Transplant Center  
Adam Wilcox, PharmD: Economic and Clinical Impact of Pharmacist Rounding in the Intensive Care Unit in a Nonacademic Community Hospital Setting  
Martin J. Bruck, PharmD: Effect of Time to First Antimicrobial Drug Therapy on Outcomes in Patients with Neutropenic Fever  
Shabnam Jedd, PharmD: Appropriateness of Treatment and Empiric Antibiotic Choice for Bacteriuria in an Acute Behavioral Health Facility |
| **Cookeville Regional Medical Center** | Taylor B. Burich, PharmD: A Pilot Study of Pharmacy Technician-Driven Medication Reconciliation at a Regional Health Care Facility  
Kenneth Dyer, PharmD: Proposal of Outpatient Pharmacy Services in a Community Hospital |
| **ETSU Gatton College of Pharmacy** | Jessica E. Freshour, PharmD: Impact of Rural Geography on Treatment Modalities for Patients with Small Cell Lung Cancer  
L. Michelle Vaughn, PharmD: Interprofessional Home Visits and Identification of Medication Errors During a Family Medicine Clerkship |
| **Fort Sanders Regional Medical Center** | Sarah A. Martin, PharmD: Evaluation of Blood Glucose Control After Implementation of New Inpatient Sliding Scale Insulin Protocol  
Tiffany Flippin, PharmD: Impact of Pharmacist Rounding and Counseling on Patients’ Perspectives on Medication Education  
William Joel Morrison, PharmD: Assessment of Anti-Xa Levels in Obese Patients Receiving Low Molecular Weight Heparin for Venous Thromboembolism (VTE) Prophylaxis  
Adela Solis, PharmD: Retrospective Order Review Compared with Real-Time Order Entry in the Emergency Department  
Scott Faw, PharmD: Effective Utilization of Colloids in the Prophylaxis and Treatment of Hypovolemia |
| **Hospital Corporation of America (HCA)** | Katie L. Miller, PharmD: Analysis of Contrast Media Events from the Reporting Database of a Large Healthcare System  
Amanda M. Kelly, PharmD: Evaluation of Adverse Drug Reactions in a Multi-Center Healthcare System  
Sarah L. Gates, PharmD, MBA: Evaluation of Medication Events Involving Insulin Across a Multi-Center Healthcare System |
| **Holston Medical Group** | Laura C. Schuster, PharmD: Clinical Impact of Employer Incentive-Based Pharmacist Managed Diabetes Clinic: A Retrospective Study |
| Tennessee Society of Health-System Pharmacists (TSHP)  
<table>
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<tr>
<th>Pharmacy Resident Poster Presentations 2012</th>
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<tbody>
<tr>
<td><strong>Memorial Healthcare System - Chattanooga</strong></td>
</tr>
<tr>
<td>Tarek Sinno, PharmD</td>
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<td>Daniel R. March, PharmD</td>
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<td><strong>The Regional Medical Center - Memphis</strong></td>
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<tr>
<td>Sam N. Davis</td>
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<td>Evelyn C. Kellett, PharmD</td>
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<td><strong>Saint Thomas Hospital</strong></td>
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<tr>
<td>Margaret E. Grimsley, PharmD</td>
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<tr>
<td>Rachel F. Shanks, PharmD</td>
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<td>Ashley N. Berkompas, PharmD</td>
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<td>Lauren T. Rusie, PharmD</td>
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</table>
| Brad Maness, PharmD  
*Presenter: Robin Tagatz, PharmD* | BK Virus in Kidney Transplant Patients |
| Alissa Grimes, PharmD  
*Presenter: Robin Tagatz, PharmD* | Evaluation of Pharmacist Impact on Antibiotic Use in the Institutional Setting |
| **University of Tennessee Medical Center** |
| James S. Wheeler, PharmD | Does Pharmacist Provided Disease State and Inhaler Device Education Improve Patient Satisfaction in Patients with Chronic Obstructive Pulmonary Disease (COPD)? |
| **Vanderbilt University Medical Center** |
| Jonathon Pouliot, PharmD, BCPS | Evaluation of Vancomycin Susceptibility Testing Methods on Treatment Failure in a Critically Ill Population |
| **Veterans Affairs Tennessee Valley Healthcare System** |
| McKenzie Calhoun, PharmD & Shivani Patel, PharmD, MBA | CHADS2 Versus CHA2DS2-VASc Utilization for Medication Management by Providers (CHUMP) Study |
| Lauralee C. Gordon, PharmD & Melaina Perry, PharmD | Group Clinic Evaluation of Diabetes Related Measures of Control |
| Christina F. Burger, PharmD & Alex Stephens, PharmD | Chronic Kidney Disease Epidemiology Collaboration (CKD-EPI) and Modification of Diet in Renal Disease (MDRD) Versus Cockcroft-Gault (CG) in Dosing of Medications in the Elderly Population |
February was the American Heart Association’s American Heart Month, and part of this initiative is the Go Red for Women Day. To highlight the importance of women’s heart health, student pharmacists at the College of Pharmacy organized their own Go Red day. On February 16, student pharmacists on the Knoxville (left) and Memphis (below) campuses wore red to bring attention to the dangers of cardiovascular disease in women.
ALUMNI & FRIENDS

Reeves and Sain named Business People of the Year

The Rutherford County Chamber of Commerce named Shane Reeves (‘94) and Rick Sain (‘89), owners of Reeves-Sain Family of Medical Services, as the 2011 Business People of the Year, and honored them at the Chamber’s annual Business at its Best celebration on Friday, February 3, 2012 at the Embassy Suites Murfreesboro Hotel and Conference Center.

The two businessmen have built Reeves-Sain into a major force in health care and pharmaceutical services since they acquired the Reeves-Powell Pharmacy in 1995. Now entering its 32nd year in the pharmacy business, Reeves-Sain has built its success on exceptional customer service, innovative product lines and charming touches that are standards of excellence since the beginning of the pharmacy. The multi-million dollar company now has more than 190 employees over multiple divisions, including 19 pharmacists and clinical staff that believe in ongoing education, serving all the major hospitals and, most recently, opening a retail operation within Middle Tennessee Medical Center. In addition to its core prescription and compounding business, the company is delivering infusion products and services throughout middle Tennessee, providing respiratory and medical equipment and specialized diabetes products, and serving the needs of long-term care centers across the state. Reeves-Sain has also pioneered new pharmacy programs, such as the distinctive MediPACK system for managing medications and a line of pharmaceutical vitamins and supplements.

In the past year, Reeves-Sain opened their newest center, the Wellness Pharmacy Center, expanding the company’s services in the realm of hormone replacement therapy. In 1998, Reeves-Sain was awarded Tennessee’s Student Preceptors of the Year by the University of Tennessee for excellence in student pharmacist training. Reeves-Sain has received numerous awards for innovation from the Tennessee Pharmacist Association (TPA), the Nashville Business Journal, and Caregiver Magazine, which honored the company with a national Caregiver Innovation Award for its MediPACK product.

Shane Reeves is a graduate of Middle Tennessee Christian School and Oakland High School in Murfreesboro. He earned his undergraduate degree from Middle Tennessee State University (MTSU) and a Doctorate of Pharmacy from the University of Tennessee. He has been recognized as Tennessee’s Young Pharmacist of the Year and he serves as a volunteer faculty member for the University of Tennessee and as a member of the Tennessee Pharmacist Association. Reeves has served as past Chairman for the Rutherford County Chamber of Commerce, past-president for Leadership Rutherford and past chairman of Tennessee’s National Federation of Independent Business (NFIB) leadership council. In 2005, Reeves was honored as Tennessee’s small business champion by NFIB. Shane has also been active in the Blue Raider Athletic Association, Alzheimer’s Association (past Memory Walk Corporate Chair), American Heart
ALUMNI & FRIENDS

Reeves and Sain – continued

Association, American Cancer Society and Leadership Middle Tennessee. Reeves serves as a deacon at the North Boulevard Church of Christ. He and his wife, Amanda, live in Murfreesboro with their three children, Will, Jack & Emma-White.

Rick Sain, a native of Bell Buckle, received his Doctorate of Pharmacy from the University of Tennessee after completing his pre-pharmacy work at MTSU. He was an intern for the Reeves-Powell Pharmacy and stayed on after completing the internship, subsequently purchasing the business with Shane Reeves. Active throughout the pharmacy community, Sain has been honored as Tennessee Young Pharmacist of the Year, the Retail Pharmacy Management Services National Pharmacist of the Year and the UT College of Pharmacy Preceptor of the Year. In addition, Sain has served as President of the Tennessee Pharmacists Association and currently sits on the Association’s board of directors. He was also selected to serve on the State of Tennessee’s Department of Labor Medical Care & Cost Containment Committee and the University of Tennessee’s National Alumni Association Board of Governors. Sain has served as a past Director of the Rutherford County Chamber of Commerce, as well as a member of the Rutherford County Convention and Visitors Bureau and has remained involved for more than 25 years. He served as an original member of the Murfreesboro Gateway Commission, is past president of the Murfreesboro Breakfast Rotary Club and a former board member of the Middle Tennessee Medical Center Foundation, and is a member of Fellowship United Methodist Church. He and his wife, Amy, have two sons, Alec and Ky.

A feature of Reeves-Sain on Nashville’s WKRN News 2 Positively Tennessee may be viewed at: http://www.reevessain.com/wcms/Editor/assets/ReevesSain.wmv

Tennessee Pharmacist Meetings – TPA & TSHP

The Tennessee Pharmacists Association (TPA) 2012 Midyear Meeting was themed “Protect the Profession, Protect the Patient, Get Involved!” It took place February 27-28 in Nashville and included programs on the state of the profession, the pharmacist’s role in patient care, changes in Medicaid, and updates on state policies and laws in Tennessee.

On February 26, the Tennessee Society of Health-System Pharmacists (TSHP) held its Midyear Seminar prior to the TPA meeting. The day was spent discussing therapeutic topics, practice pearls, and the future practice model that makes the best use of pharmacists as direct patient care providers and is responsive to healthcare reform.
ALUMNI & FRIENDS

Pesterfield Supports UT's Pharmacy Update

During the Tennessee Pharmacists Association’s Legislative Reception in Nashville on February 27, David Pesterfield (left center) presents a check to Dean Marie Chisholm Burns (right center), Executive Associate Dean Jim Eoff (left) and Associate Dean for Continuing Education, Glen Farr (right) to support the College's 2012 Pharmacy Update. UT’s Pharmacy Update is a continuing education program presented at eight sites across the state. Mr. Pesterfield and Pharmacy Plus Programs have generously supported the College and the Tennessee Pharmacists Association for many years. Mr. Pesterfield is a graduate of Tennessee Wesleyan College with a Bachelor of Science degree in Accounting, as well as the Executive Management Program at the University of Pennsylvania Wharton School of Business. Currently, Mr. Pesterfield is President of Pharmacy Plus Programs, LLC, a National Group Purchasing and Marketing Network for Independent Pharmacies.

Condolences

The College notes with sadness the passing of Billy Wilson McClard of Lafayette, on February 15 at the age of 91. A 1948 graduate of the University of Tennessee College of Pharmacy, Dr. McClard was owner of McClard's Pharmacy in Lafayette and a leader among Tennessee pharmacists.

The College extends sympathy to pharmacist Mike Clepper, DPh ('78), whose father, Walter Frederic Clepper, Jr., of Nashville passed away on February 21 at age 90.

The College also extends sympathy to pharmacists Mike Ryan, PhD, former Dean of the UT College of Pharmacy, and his wife Kay Ryan, DPh, on the passing of Mike’s mother, Grace M. Cramin (née Acquisto). Mrs. Cramin passed away peacefully at St. Francis Hospital in Memphis on February 26 after a brief illness.

Acknowledgements

Special thanks to Melissa Smith and Stephanie Weathers for their invaluable contributions to this edition of the newsletter.
Visit our website at: www.uthsc.edu/pharmacy

Please submit news items to dbyrd4@uthsc.edu

The University of Tennessee College of Pharmacy

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