

From the Director's Desk

by Dr. G. Thomas Kluemper

Evidence-based dentistry is promptly becoming one of the more common buzz words or phrases in our profession. For some, evidence-based orthodontics represents an advanced level of practice where the best available data is at our fingertips and can guide us with clinical decisions in the face of uncertainty. For others, it represents a thinly disguised threat to our practice, to be used against us either by insurance companies or in a court of law.

In the January issue of the AJODO, two papers touch on this subject. In the Litigation, Legislation and Ethics section, Larry Jerrold¹ discusses an interesting medical malpractice case where statistical evidence was not allowed in the courtroom because it was "not probative of any issue in a medical malpractice case". In other words, raw statistics on the frequency of negligence or incompetence with a given medical procedure does not shed light on whether a particular provider was negligent with such procedure. Jerrold goes on to suggest that evidence-based orthodontics can help us and our patients make better decisions about which treatment option to choose in a particular circumstance, and the likely implications of each option, but it cannot help determine whether we

(Continued on page 4)

2007 GRADUATION

The 16th Annual Orthodontic Graduate Symposium will be Friday, May 25th at the W.T. Young Library.

*Dr. Scott Conley from the University of Michigan will present
"Obstructive Sleep Apnea: How many clubs are in your bag?"*

Drs. Klint Butler, Leigh Chalothorn, and Jim Zettler will present their research. Our banquet will follow at the Lexington Country Club.

The registration deadline is May 12.

Call 859-323-5371 or email Kandace.Bright@uky.edu
for more information and to register.

RESEARCH UPDATE: BY DR. CINDY BEEMAN

Our third year graduate students presented their research at the International Association for Dental Research in New Orleans in March, and will present at the American Association of Orthodontists in Seattle in May. For a review of their abstracts, go to www.dentalresearch.org or enter the following addresses into your web browser.

Leigh Chalothorn, D.M.D. presented "Hypodontia and Ovarian Cancer: Is There A Link?"
http://iadr.confex.com/iadr/2007orleans/techprogram/abstract_93190.htm

Klint Butler, D.D.S. presented "A Biometric Comparison of Skeletal Class III Orthodontic Patients"
http://iadr.confex.com/iadr/2007orleans/techprogram/abstract_89406.htm

Jim Zettler, D.M.D. conducted a study of "Herbst Appliance: A Cephalometric Comparison of Stepwise Versus Full Advancement"
http://iadr.confex.com/iadr/2007orleans/techprogram/abstract_93083.htm

Congratulations Graduates!



From left to right:
Dr. Preston Hicks,
Orthodontic Program Director,
with Klint &
Stephanie Butler,
Pada & Leigh Chalothorn,
and Jim &
Edwina Zettler

We would like to give a
Special Thanks
to the following
alumni and friends
of the Graduate Program
for their generous
support since our last
newsletter.

\$5000 +

Dr. Sonny Long
Tempur-Pedic

\$1000-\$4999

Dr. Chuck Pritchett

Dr. Billy Millay

Dr. Steve Parle

Dr. J. Burton Douglas

Kentucky Association of
Orthodontists

\$1-\$999

Dr. Ulla Crouse

Klint Ray Butler is originally from Arizona. He grew up in the Valley of the Sun and graduated from Mesa High School in 1991. He met and married his wonderful wife Stephanie in 1994. Klint earned his Bachelor of Science in Medical Biology from the University of Utah in 2000. He went on to receive his Doctor of Dental Surgery degree from the University of Iowa, where he graduated with honors in 2004. In May of 2007 Klint will receive his Certificate in Orthodontics and Master of Science degree with his thesis entitled: *A Biometric Comparison of Skeletal Class III Orthodontic Patients*. Klint and Stephanie are the proud parents of four beautiful children: Madeline (11), Grace (7), Jack (5) and Lucy (11 months). After graduation the Butler family is headed to Grand Island, NE where Klint is purchasing an existing orthodontic practice.

Leigh Ann Chalothorn is a home grown Kentuckian. She grew up in Madisonville, Kentucky where she graduated from North Hopkins High School in 1996. She then attended the University of Kentucky where she graduated with a B.S. in Biology in 2000 and then immediately entered dental school where she graduated with distinction in the class of 2004. She continued her postgraduate training in orthodontics at UK. In May of 2007, Leigh will receive a Certificate in Orthodontics and Master of Science degree with her thesis entitled, *Hypodontia and Ovarian Cancer: Is There A Link?* Leigh is married to Pada Chalothorn, who is a practicing general dentist in Lexington. They are expecting their first baby in September. Leigh will join the practice of Dr. Jud Knight and Dr. Philip Wahle in January 2008.

James Joseph Zettler, son of Jim and Anne Zettler, grew up in Fairfield, Ohio. Jim attended Xavier University on a golf scholarship where he was a two time Academic All-American. He graduated with a major in Natural Science in 1996. After college, Jim pursued his golfing dreams by playing on the professional mini-tours for two and a half years before returning to his other career dream, dentistry. He married Edwina Randall in July 2000 and started school at the University of Kentucky College of Dentistry two weeks later. While working hard in school, Jim also had a busy home life. He welcomed his daughter Ava into the world in July, 2003. Joyfully, Jim matriculated into the University of Kentucky Orthodontic Graduate Program and started his training in 2004. They had their second child, Jimmy, in February 2005. Jim will receive a Master of Science degree with his thesis entitled, *Herbst Appliance: A Cephalometric Comparison of Step-Wise Versus Full Advancement.* They will be moving back to Fairfield where he will join his father's orthodontic practice with office locations in both Hamilton and West Chester, Ohio.

Mystery Alum



Can you name this
1971 Alumnus?

(Answer on page 4)

Graduate Program Visitors

On November 3, 2006 Dr. Proffit presented a very informative lecture on the Changing Patterns of Class III Treatment. The lecture was based on the current best-evidence supporting the diagnosis and treatment of Class III patients. Some of the changes include treating the maxilla more than the mandible in correction of Class III patients. Also, chin cup therapy has not been very effective. There is no long-term data for effectiveness of correction after puberty; effectiveness of chin cup therapy in primates is due to cooperation of force and duration of treatment which is difficult to obtain in humans. However, facemask therapy does work, showing skeletal changes up to age 12. The younger the pa-



**Dr. William Proffit
and
Orthodontic Graduate Program
Faculty and Residents**

tient, the better the results (even before age 8). Franchi, Baccetti, and McNamara are the best references for evidence. Turley showed that concomitant maxillary expansion does not increase effectiveness of facemask correction. 25-35% of early facemask cases end up needing surgery in the long-term. Treatment during the age from 7-10 show more success than failure. Lower incisor extraction seems to be better than lower pre-molar extraction for dental camouflage. Surgically, the maxilla is being advanced more than mandibles being set-back. The maxillary surgery appears to be more stable, more esthetic, and less compromising to the airway.

Our website has changed!

<http://www.mc.uky.edu/Dentistry/students/ortho/index.html>

Dr. Harry Legan, DDS, Cert. Ortho, orthodontic program director at Vanderbilt University, visited the Orthodontic Graduate Program in November 2006. He presented valuable information on the diagnosis and management of obstructive sleep apnea with an emphasis on surgical treatment planning. Dr. Legan shared several case reports and emphasized the need for an evidence-based approach to this important area of clinical care. In attendance were orthodontic and oral surgery residents.



**Dr. Harry Legan
and Orthodontic Graduate Program Faculty and Residents**

(Continued from page 1) executed the chosen option well. In a Case Report from the same January issue², Dr. J. Bilodeau reviews his treatment plan and final results on a previously treated Class II, open bite case with condylar resorption. Though the results of his treatment, which included extractions and two-jaw surgery, were excellent, Dr. Bilodeau could not help but second guess the treatment provided by the patient's previous orthodontist. In fact, with no real evidence to support him, he goes so far as to say that failure to extract teeth in the original plan "probably caused" the condylar resorption.

These articles are interesting for a number of reasons, not the least of which is how each of them underscores the need for evidence-based care. Recently, several appropriately concerned alumni have called asking what we know about the bold claims of various new and even 'revolutionary' treatment systems like Wilcodontics, SureSmile and The Damon Appliance. The answer of course is that we don't know much...but not for lack of trying. We've been to the courses and we've read their literature. The fact is there's not much evidence out there. Do corticotomies and/or special wires really expand the cortical plate? Can one system honestly reduce treatment time by nearly 50% over another and still deliver the same quality result? Your guess is as good as ours.

As Lysle Johnston so correctly said about such claims at the 2005 AAO Symposium on Early Treatment³, "in the end, the burden of proof lies with the producer, not the consumer". Unfortunately, many of the orthodontic companies and gurus are not delivering. "Half-page ads and florid claims are no substitute". The evidence is always 'coming soon' and the outcomes of the few studies conducted are not compelling. But as Lysle goes on to suggest, we cannot trust the companies, their loyalty is with their stockholders. Newly designed products sell; simple as that. But is the next generation of the miracle appliance simply that, or does it really change the biological response from the patients we treat? It's hard to know for sure and the companies aren't helping.

So, to whom can we turn for truth in the face of such potentially attractive uncertainty? Certainly, we must demand more from the ones who design the great products and make the big claims. But ultimately, we must rely on our own ability and willingness to process the information available. Sure we want to make our lives easier and our practices to run smoother. But as responsible providers, we must develop a healthy skepticism and a penchant for the delivery of evidence-based care. At UK, we are committed to teaching this approach. Do you have a clinical question you would like us to study; or at least research the current available evidence? Let us know what you think.

References:

1. Laurance Jerrold, *Evidence-based data: Are they admissible?* Amer J of Orthod and Dentofac Orthoped 2007;131:102-103.
2. John. E. Bilodeau, *Retreatment of a patient who presented with condylar resorption.* Amer J of Orthod and Dentofac Orthoped 2007;131:89-97.
3. Lysle Johnston Jr., *Early Treatment 2005: Déjà vu all over again.* Amer J of Orthod and Dentofac Orthoped 2006;129:45-46.

Alumni Receptions- *Your opinion please?*

Due to financial considerations, we are not hosting an alumni reception at the AAO annual meeting this year in Seattle. Cost of such get-togethers compared with the estimated turnout does not warrant the expense.

This begs the question: would you rather we have our alumni receptions at the SAO each year, rather than the AAO to increase attendance? Or at least is this an idea worth trying this year. The SAO in October is in Hollywood, FL and the AAO meeting next year is in Denver, CO. Please let us know your opinion.

Alumnus Mystery Man

Dr. Charles Rekow

Dr. Charles Rekow is a 1971 Orthodontic Graduate Program Alumnus. After graduating from the program Dr. Rekow began practicing in Ft. Thomas, Kentucky. He currently is transitioning into retirement by practicing part-time with Dr. Jeri Stull. Dr. Rekow looks forward to having more time to enjoy his hobbies. He and his wife, Carol have 7 children and 13 grandchildren. Dr. Rekow plans to stay in Ft. Thomas where he can be with his wonderful family. Dr. Rekow says he and his wife enjoy having Sunday Pizza Night with their children and grandchildren.

The Orthodontic and Periodontal departments would like to introduce our new clinic unit manager, Ms. Erica L. Odusanya. Erica has a master's degree in Hospital Administration from the University of Kentucky. Since starting her new position on January 8, 2007, she has been busy learning all aspects of her new position including axiUm and clinic operation. Erica is married to Azeez Odusanya and they have 2 children, Kaylah (15) and Kaleah (8). Her favorite color is pink and she enjoys reading informational literature. If given a choice of what to do in her free time, Erica would choose walking on the beach every time! Please join us in welcoming her to the college.

Ortho Welcomes



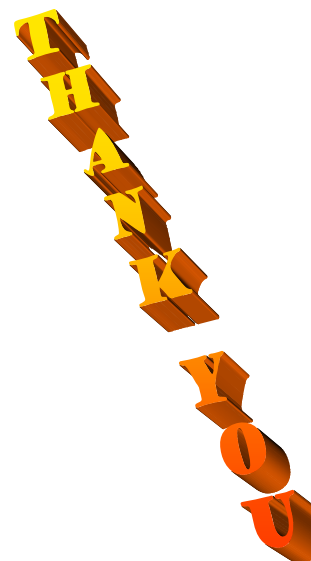
New Staff Members

The Orthodontic Graduate Program would like to welcome a new staff member Mr. Dewayne Martin. Dewayne joined our program in June of 2006 as a staff support associate and is excited to learn more about Orthodontic Graduate Program. He is involved in the graduate application process, website maintenance and the newsletter. Dewayne comes from Winchester, Kentucky and has worked at the College of Dentistry for 3 years. We are excited to have Dewayne as he grows in his new position.

The E. Preston Hicks Endowed Chair of Orthodontics and Oral Research

We would like to extend a very special thank you to everyone that generously pledged to support and fully fund the E. Preston Hicks endowment.

- Dr. Thomas Arkle III
- Beaverton Oral Surgeons Study Club
- Mr. Robert Carl
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- Dr. Flora Yueh-Chuan Chen
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- Cumberland Gap Orthodontics, Inc
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- Dr. Laura N. Lawless



**UNIVERSITY OF
KENTUCKY
ORTHODONTIC
GRADUATE
PROGRAM
ALUMNI
NEWSLETTER**

MAY 2007

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FOCUS ON FACULTY

BY DR. CHERYL WIDEJKO, SECOND YEAR

A soccer fan and fisherman, Dr. Philip Wahle, is an outstanding part-time faculty member with the University of Kentucky, Orthodontic Graduate Program. He began dental school here at UK in 1986, and soon married his charming wife Sally. He completed the DMD program in 1990 and then began his education in orthodontics. Dr. Wahle received his certificate in orthodontics and M.S. in 1993, and then joined Dr. Jud Knight in private practice. Dr. Wahle's drive and commitment to education led him to teaching first in the undergraduate dental clinic, and then he began teaching in the orthodontic graduate clinic. Dr. Wahle enjoys the role of teaching and it has allowed him to keep in contact with the orthodontic faculty. He is appreciative of the impact that his instructors have had on his life and development in orthodontics. Dr. Wahle delivers the

same qualities to the current residents imparting knowledge that he has acquired from his own experiences in private practice, his staff, patients, and his full-time on-site instructor, Dr. Jud Knight. He and Sally have three daughters, Awbrey (14), Mason (12), and Austin (8) as well as his wife Sally. Sally has agreed to stay with Dr. Wahle at least 19 years and hopefully more. He and his wife follow their children to soccer fields, gymnasiums, beaches, and to other school activities. The fisherman inside occasionally takes some time to try to catch "the big one."

He compliments his wife and says that she is the kindest person he knows, and she is an exceptional mother to their children. Sally continues to practice nursing, and Dr. Wahle says, "her patients are better through her efforts."

Everyone here at UK believes that we are better off through Dr. Wahle's efforts.