



Congratulations to Bart Tipton, RPh, of Precision Pharmacy in Bakersfield, Calif., for being named PCCA's OCTOBER PHARMACIST OF THE MONTH.



How long has your pharmacy been in business? How long have you been compounding?

I have been compounding for eight-and-a-half years. My business partner Patrick Wade and I opened our own pharmacy about two-and-a-half years ago, in April 2006. Patrick is a valuable asset to our business. He is not a pharmacist, but he is in charge of our marketing and business relations.

What made you decide to go into compounding?

It's the thought of knowing that something you made with your own hands can make a difference in the life of another human being or animal. I had very little satisfaction of that kind as I worked in a chain drug store for 11 years.

What made you decide to join PCCA?

Before we opened our pharmacy, I worked for another pharmacy which was a member. When it came to opening this store, there was never a question as to whether my pharmacy would become a PCCA member. I question whether it would be possible to be in business without PCCA's support.

Tell us a little about your pharmacy.

We have a Class 100 hood inside a Class

10,000 cleanroom for our sterile compounding. Our pharmacy utilizes several powder containment hoods and capsule machines, an ointment mill, and homogenizers. We also have a very large amount of reference materials for veterinary medicine on-hand.

What areas of compounding do you most frequently serve?

We do a lot of veterinary compounding, hence the reference material, as well as BHRT and aesthetics.

Could you please share a compounding success story from your pharmacy?

We compounded a prescription for a horse that was the star of a well-known movie. The intense heat of the lights on the movie set made the horse sweat, and this constantly made him break out in hives as an allergic reaction to the sweat. We compounded an antihistamine for the horse, a hydroxyzine combination oral powder with apple flavor, that was mixed in with his feed. The horse responded well to the treatment, and with that problem solved, the show could go on!

We actually have compounded medications for all kinds of horses, ranging from 35-year-old workhorses to Kentucky Derby winners. A lot of antibiotics that are needed to treat equine infections, such as rifampin, are not commercially available. We are able to compound those in the necessary strengths and dosage forms. We also have compounded a variety of anti-inflammatory drugs for horses. Racehorses and other workhorses get quite a workout, which is at least as tough on their joints as it would be for any human athlete.

You have done some work with horse breeders as well. Could you please share some details about that?

In addition to treating other equine conditions, we compound progesterone to help broodmares maintain their pregnancies. Mares can become progesterone-deficient when they are pregnant, and this can lead

to a miscarriage if left untreated. Breeders spend a lot of time, money and effort on breeding their horses. Protecting the health of the mare and the foal is crucial, and just from a financial standpoint, it is extremely important to make sure the pregnancy is successful when the owner may have a million-dollar stud fee already invested in the process. Once the foal is born, we are able to compound anything else it needs to keep it strong and healthy throughout its life. We can protect the horse's health and the owner's investment, and that makes for happy horses and happy owners.

Are you active in any pharmacy associations?

I am a member of the California Pharmacists Association (CPhA); the International Academy of Compounding Pharmacists (IACP); the American Academy of Pain Management (AAPM); and the Reflex Sympathetic Dystrophy Syndrome Association (RSDSA), which helps raise awareness of Complex Regional Pain Syndrome (CRPS), formerly known as Reflex Sympathetic Dystrophy.

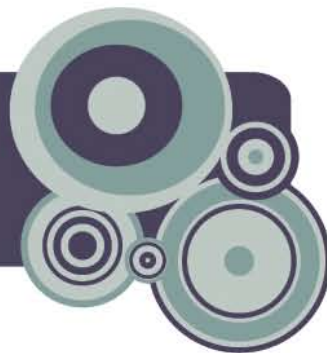
What are your plans for the future?

We would like to expand our store. Another goal of mine is to help get as many people as possible involved in compounding through hosting pharmacy student internships at our pharmacy.

"I want to emphasize that the employees we have at our pharmacy deserve recognition, too. They are top-notch – the best I have ever worked with! They constantly surprise me with what they can do and their overall dedication to their profession. I consider them to be not only my employees, but my friends."

TECHNICIAN OF THE MONTH

Congratulations to Danielle Mango, of Huntsville Compounding Pharmacy in Huntsville, Ala., for being named PCCA's October Technician of the Month. The pharmacy is owned by James B. Gillespie, RPh.



Studying for Success

Where and when did you receive your compounding training?

I received my primary training "on the job" at the first compounding pharmacy at which I worked. Jim sent me to PCCA's Aseptic Training in February 2003. I returned for a second Aseptic Training class in November 2006 in anticipation of changes to the USP Chapter <797> regulations. Then I attended PCCA's USP <797> Implementation Aseptic course in May 2008. My training and experience has allowed me to write our Standard Operating Procedures (SOP) manual.

Is there something you learned in these classes that helped you get to the level you are at today?

It's hard to narrow it down to just one item, but I think one of the most helpful things I learned was the importance of weekly environmental testing using touch plates. Keisha Lovoi, RPh and Megan Jeffrey, MS really do an excellent job delivering the information in both of PCCA's Aseptic Training classes.

What piece of equipment could you not live without in the lab?

Due to the different temperature requirements for environmental testing with USP <797>, I really like the dry block incubators. Since each is dedicated to 37 and 60 degrees respectively, I am able to perform multiple environmental tests without having to "babysit" an ambient temperature incubator. These pieces of equipment make environmental testing easier.

What procedures do you follow to ensure safety when compounding?

As part of our overall commitment to safety, our pharmacy is going through the Pharmacy Compounding Accreditation Board (PCAB™) accreditation process, and we are having a new cleanroom installed. We have implemented PK Software's barcode scanning system to ensure the correct chemical is

being used. We also have taken advantage of Eagle Analytical Services' Capsule Quality Control spreadsheet. We have had our T3 aliquot tested with Eagle. Dr. Zolner at Eagle has proven to be a great asset. I don't think we could have had our T3 aliquot without him.

What is your favorite PCCA formula?

I'd have to say that **PCCA Formula #2740**, ABH/Pluronic/Lecithin Organogel, is my favorite. We have compounded this formula in several different strengths. I saw firsthand how effective this formula can be. My grandfather was diagnosed with a brain tumor, and in his last couple of months he became agitated at times, and was nauseated from some of the pain medications he was on. This formula really helped him.

Could you please share a compounding success story from your pharmacy?

We have a patient who was diagnosed with hypertension when he was six months old. His mother brought us a couple of prescriptions, one for grape-flavored amlodipine 1 mg/mL, and another for tropical punch-flavored enalapril 1 mg/mL. We've compounded these for him for four-and-a-half years now. He loves to come into the pharmacy and pick up his medicine. His mother even told me he likes to draw up his medicine in an oral syringe by himself.

How long have you been with the pharmacy now? How long have you been compounding?

I've been working for Jim for seven years, but I have been compounding for nine years altogether.

What made you decide to work as a technician?

I was going to college, studying to be a nurse, and had a class about dosing medication. I thought that working in a pharmacy while I was in college might be something I'd enjoy. I applied for a job at a retail pharmacy next to the campus, but they weren't hiring at the time. However, the pharmacist there gave my resume to his wife, who worked for a compounding pharmacy, and she called me for an interview. I never had heard of compounding before, but I thought, "Why not?" As soon as I walked into the lab, I knew this was something I wanted to do. However, I haven't forgotten about nursing school, and plan to resume my studies in January.

"Danielle's compounding experience has made her the very best at what she does, and she works hard to make sure everything is done right. Congratulations on receiving this honor!" – Phillip Rigsby, PharmD, Huntsville Compounding Pharmacy

ApothaTip:

We have experimented with the settings on our Electronic Mortar and Pestle (EMP), and have found that if we mix a cream such as PCCA VersaBase® on speed setting 8 for 30 seconds, it cuts down on the cream expanding. This has been very beneficial when we're dispensing the cream into a topical syringe.

CONSULTANT'S CORNER

Polyethylene Glycol 30% Injection for Spinal Cord Injury in Dogs

The most common causes of acute spinal cord injury (SCI) in dogs are due to exogenous trauma from motor vehicle accidents and intervertebral disc herniation from degeneration occurring in chondrodystrophic breeds of dogs including Dachshunds, Basset Hounds and Shih Tzus.

For dogs involved in motor vehicle accidents, the incidence of spinal cord injury is approximately five percent yet other reports document the incidence as high as a 60 percent. The neurologic manifestations of acute spinal cord injury in dogs are dependent upon the region of the spinal cord affected with signs ranging from neck or back pain to complete paralysis and loss of autonomic functions such as bowel and bladder control.

Researchers at Purdue University have studied polyethylene glycol (PEG) 30% injection for spinal cord injury helping paralyzed dogs regain mobility.

In the study, 13 of the 19 dogs (about 68 percent) injected with PEG 30% 2 mL/kg regained use of their hind legs and were able to walk within eight weeks. More than half the dogs were standing or walking within two weeks of treatment and most cases showed positive signs within three to five days. The dogs were injected twice—when they were brought into the veterinary emergency room (within 72 hours of their injuries), and then after standard treatment such as surgery, physical rehabilitation and steroids to reduce inflammation.

In a group of 24 dogs (historical case review) that only received the standard treatment, only about 25 percent regained a similar level of mobility and 62 percent remained paraplegics.

Trauma to nerve cells cause the membranes to weaken and rupture and the damage causes loss in the ability to produce and carry nerve impulses from cell to cell. Polyethylene glycol accumulates only in the injured nerve cells and repairs the initial membrane damage by fusing cells together known as “fusogen.”

Polyethylene glycol injection provides evidence as a promising intervention for acute spinal cord injury in dogs due to motor vehicle accidents or explosive disc her-



By Monica Kaul, RPh,
PCCA Pharmacy Consultant

niation in predisposed breeds.

PCCA Formula #7664

Polyethylene Glycol 30% W/W Injection Solution (PF) Vet

REFERENCES:

Lavery PH, Leskovaar A, Breur GJ, Coates JR, Bergman RL, Widmer WR, Toombs JP, Shapiro S, Borgens RB. A preliminary study of intravenous surfactants in paraplegic dogs: polymer therapy in canine clinical SCI. *J Neurotrauma*. 2004 Dec;21(12):1767-77.
Kline L Karen. Studying the effects of polyethylene glycol in dogs with acute spinal cord injuries. *Vet Med*. March 2005;100(3):197-8.

Letter from Dave Sparks



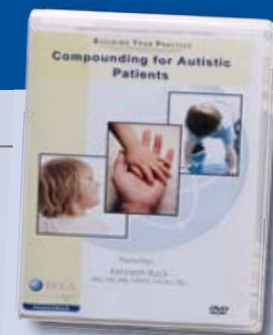
On behalf of the PCCA team, thank you for your thoughts and prayers as we dealt with Hurricane Ike. We made it safely through the storm, and we're pleased to say without missing a beat. The entire staff knows how important our members and the patients and prescribers whom they serve are to this profession and to PCCA. We have a dedicated bunch here, and all are committed to serving you without interruption!

PCCA activated its emergency response system to ensure that we could communicate to our members. We were up and running on Monday following the storm, taking member orders, shipping out packages and making PCD calls. A couple of our staff members drove air shipments 165 miles to Austin to ensure they got out. It was very gratifying for these team members to know that their efforts were enabling patients to have access to their medications including a chemo patient being served through compounding pharmacy. All in all we are very thankful that our staff is safe, that our building survived the storm in fairly good shape and that we could be up and running so quickly.

Your words of encouragement and your support of PCCA are so appreciated. It means a lot to us. We feel very privileged to be serving the compounding profession and to have the opportunity to work with amazing members such as yourself. Thanks for all you do for PCCA and compounding pharmacy.

New Comprehensive AV Product Now Available!

BUILDING YOUR PRACTICE **Compounding for Autistic Patients** **PCCA #35-4364**



Everything you need to either start your own autism practice, or expand upon a current one – all in one package!

- Three video DVDs go in-depth on the topic, featuring presentations by **Kenneth Bock, MD, FACAM, FAAFP, FACN, CNS**; **Tricia Heitman, PharmD** and **John Herr, FIACP, RPh**
- A data disc includes:
 - **Autism Start-Up List** and **PCCA Formula List**
 - **Compounding for Autism: Basic PowerPoint® Presentation** that you may customize for your pharmacy
 - **MP3s of All Speaker Presentations**
 - **Autism Articles**
 - **Instructions for Obtaining CE Credit**
 - And, much more!

Call PCCA Customer Service today for more information or to place your order!

PCCA Advisory Council Helps Shape Future for PCCA and Its Members

By Lizzie Dragon, PCCA Director of Member Benefits

The Member Benefits Department was created last year to help determine new ways to enhance the PCCA Member's experience. The Advisory Council (AC) is one of many appreciation programs, and was developed to be a voice for the membership. This Council is designed to help PCCA realize its Member Benefit goals which include:

- Making members feel appreciated.
- Creating more PCCA ownership and engagement.
- Growing our members' businesses and PCCA's ability to meaningfully support their needs.

The Advisory Council has become a sounding board for PCCA's strategic decisions relating to our members. As PCCA develops new programs and services, it will consult the Council to determine: 1) whether the program or service would be beneficial to the general membership at large, and 2) how best to introduce it to the PCCA Membership with maximum benefit and impact for their practices.

The AC is the highest level of connection PCCA has with its membership to strategically advance the company's agenda and to better serve and meet the needs of its existing and new members. As a result, our members have a better understanding of our processes, more confidence in our executive leadership and we have a better appreciation of our customers' needs.

The Council is comprised of 11 U.S. members and 8 senior managers from PCCA. The members were selected based upon their leadership in the compounding community and their dedication to the best interests of the profession, other members and PCCA. They have agreed to serve a two-year term. The Council meets twice a year via face-to-face meetings and as needed by phone.

We have held two meetings this year and discussed a multitude of topics PCCA faces every day. Our first meeting was in North Carolina in April 2008, and our second meeting recently

was held in Houston on September 5-6, 2008. Many of the topics we discussed were driven by another Member Benefit program, PCCA Member Focus Groups. By the end of 2008, we will have interviewed 100 members this year at various events. During a Focus Group interview, we ask seven questions which help drive the direction of our programming, services and offerings. We look for trends in the data and then discuss those issues within PCCA and within the Council. We also ask all



AC members what topics they feel we should be addressing. So far, the AC responses and the Focus Group responses have been similar, so we are truly confident that the AC is a "voice of membership" and a strategic team.

To date, we have discussed the following topics with the Council: Pharmacy Consulting, Events/Education, service fees, Member Benefit programs, quality and the customer's perception of quality, regulatory updates, back-order and shipping issues, inventory control in member practices, programs for new members, and more. All discussions revolve around what strategic choices we have as a company and how we can best meet the needs of our growing customers to become a more member-focused company. Many of the initiatives members will see rolling out in 2009 are a result of strategic discussions held with AC members. Several of these topics revolve around a phrase we have

coined – "Culture of Compounding." This is the total group dynamic and interaction that allows compounders to be proactive and grow their practices individually. It represents sharing, networking and learning from each other. It represents the culture of PCCA. "The Culture of Compounding is how this profession was built and will continue to grow," said **David Sparks** at the AC's second meeting, "The Advisory Council embraces this culture and I look forward to seeing the results of our discussions and our work with our members."

The Advisory Council is a timely addition to PCCA's learning and decision-making process. It has heightened and strengthened relationships between PCCA staff and company leaders with PCCA Members. If you have any comments you would like share with the AC, please e-mail Lizzie Dragon at ldragon@pccarx.com.

PCCA Advisory Council

PCCA Members:

Bob Scarbrough, RPh, Abrams Royal Pharmacy, Dallas, Texas
Dana Gordon, PharmD, Central Avenue Pharmacy, Pacific Grove, Calif.
Don West, RPh, Lloyd Center Pharmacy, Portland, Ore.
Eddie Glover, RPh, U.S. Compounding, Inc., Conway, Ark.
Jeff Carson, RPh, Oakdell Pharmacy, San Antonio, Texas
John Herr, RPh, Town and Country Compounding, Ridgewood, N.J.
John Preckshot, RPh, CCN, Preckshot Professional Pharmacy, Peoria, Ill.
Tony Welder, RPh, Dakota Pharmacy, Bismarck, N.D.
Mike Collins, RPh, Healthway Compounding Pharmacy, Saginaw, Mich.
Mike Leake, RPh, Louisville Pharmacy, Louisville, Ky.
John Voliva, RPh, Hook's Apothecary, Evansville, Ind.

PCCA Staff:

David Sparks, CEO
Jim Smith, VP, Sales and Marketing
Fabian Zaccardo, COO
Marc DuPont, CFO
Bill Letendre, VP, Pharmacy Management Services
Chris Simmons, VP, Pharmacy Consulting
Artie Matthys, VP, Training and Education
Lizzie Dragon, Director of Member Benefits

"The potential for chemical contamination in our business is great. Fortunately, the steps that PCCA take to protect the members from this threat are even greater. Even with all of my years as a customer of PCCA I did not know exactly what PCCA did to assure quality chemicals and to protect my right to compound. Anyone who thinks that 'all chemicals are created equal' regardless of supplier needs a serious wake up call." – John Preckshot, RPh, CCN

"I enjoy serving on the Advisory Council. It is very informative and opened my eyes to the quality of service and chemicals at PCCA. Serving on this Council reinforces my trust in PCCA products and services."
– Eddie Glover, RPh

"Being on the Advisory Council has exceeded my expectations. This Council already is enhancing all of the compounding profession. It benefits everyone."

– Tony Welder, RPh

"I was able to provide input and increase my knowledge. This experience has exceeded my expectations. I have spent time with people and helped PCCA be successful. I feel the 'warm fuzzy' again and feel reconnected to PCCA." –

Mike Leake, RPh

"There is a sense of family among this AC team and we know we are making a difference."

– Bob Scarbrough, RPh

Nutraceuticals



By Patrick Kuruc, MS, PCCA Nutraceutical Manager

NATURAL STANDARD DATABASE Natural Standard

PCCA is proud to announce a collaborative venture with Natural Standard, our recommended pharmacy data provider for unbiased complementary and alternative medicine information. Natural Standard contains seven different databases including high quality, evidence-based information that can be accessed to help you implement a more effective health and wellness program into your pharmacy.

Foods, Herbs & Supplements



Decision support tool with searchable evidence-based systematic reviews on functional foods, herbs, supplements, vitamins and minerals. Available in different reading levels and languages. Monograph sections include: "The Clinical Bottom Line," Safety, Efficacy, Dosing/Toxicology, Adverse Effects, Precautions/Contraindications, Interactions, Pregnancy and Lactation Data, Pharmacology/Mechanism of Action, Kinetics/Dynamics, Evidence Table of Individual Studies (quality of study rating, statistical analysis), Clinical Trial Discussion/Methodology Critique, Tested Brands, and Product Recalls.

Health & Wellness



Scientific analysis on the available data for or against the use of therapies such as acupuncture, chiropractic and other modalities, nutrition, special diets, exercise, fitness, and beauty regimens are available. Organized by demographic group health centers – Women, Men, Children, Adolescent and Senior.

Comparative Effectiveness



Search by indication for comparative efficacy charts that itemize which therapies have scientific support for treating or preventing specific medical conditions. Easy to recognize letter grades A-F consolidate the level of evidence. Click on an indication for a detailed medical condition monograph.

Medical Conditions



Comprehensive medical condition monographs covering background, causes, prevention, treatment, conventional and integrative therapy options. Categorized by medical specialties including neurology, gastroenterology, rheumatology, etc. Provided with an Interactive Symptom Checker.

Brand Names



Investigate the ingredients inside of thousands of international products. Product identification aid, alternative options and manufacturer contact information. Relates to full monographs for further details on individual components of multi-ingredient products. **Wellness Works** and **PharmaHealth** products will be available to view on this database in the very near future

Interactive Tools



Advanced Interaction Checker computes potential concern amongst international drugs, herbs, foods, nutrient depletion and lab tests. Additional tools include a nutrition database, interactive calculators, medical dictionary, training programs, practitioner database, and continuing education opportunities.

Genomics & Proteomics



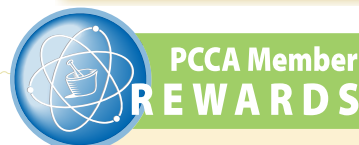
Extensive coverage of genetic diseases and concepts in genomics. Monographs on hereditary conditions, such as Down's syndrome, Tay-Sachs disease, and hemophilia, include risk factors, causes, diagnosis, complications, treatment, integrative therapies, and prevention. Important concepts in genomics include gene tests, genetic discrimination, and cutting-edge technology used in research.

PCCA members who choose to subscribe to Natural Standard Database will be provided with preferential treatment:

- Natural Standard will make available preferred pricing to PCCA members. A **discount of 35%** will be noted in the cover page of the Natural Standard Database Access Agreement.
- Natural Standard will make available a 20% discount on all PDA products offered by SkyScape products.
- Preferred customer service will include periodic database walkthroughs and Webinar training.
- Natural Standard will make available preferred activation services in an effort to expedite account activation for PCCA Members.
- Natural Standard will work closely with PCCA to provide their members with initial usage training.
- Natural Standard will provide, at no cost, a monthly subscription to the *Natural Standard Evidence-Based Newsletter* to all interested PCCA Members.
- Natural Standard will provide a **single two-week trial** to all PCCA Members interested in accessing high-quality, evidence-based information on dietary supplements (including herbs, vitamins and minerals), functional foods, diets, complementary practices (modalities), exercises and medical conditions.

Get Started Today! Contact Natural Standard to learn more and sign up.

617.444.8629 Telephone www.naturalstandard.com



PCCA Member REWARDS

As of September 20, 2008, PCCA members have redeemed \$137,411.30 in rewards. A total of 621 people have attended events and trainings with reward discounts,

517 members and 104 practitioners. There is still time to redeem your rewards in 2008. Please consider attending one of the following events:

November 3-6, 2008 Primary Training
Houston, Texas

November 7, 2008 PK Software
Training, Houston, Texas

November 8, 2008 Men's Health
Symposium, Dallas, Texas

November 10-12, 2008 Technique for
Technicians, Training Houston, Texas

November 13-15, 2008 Anti-Aging/
Cosmeceutical/BHRT Symposium, San
Diego, Calif.

November 14-15, 2008 Quality
Assurance for Compounding
Symposium, Houston, Texas

Here is what our members are saying about our Rewards and Growth Incentive Bonus programs:

"I like these programs because they give me an incentive to buy, and I can earn a bonus back. I like being

able to mark and measure my progress. If I am doing more with PCCA, it means I am growing my compounding. I certainly look at the catalog more now. I want to support PCCA, like I expect my customers and patients to support me." - Vic Allen, RPh, Vic's Family Pharmacy, Nampa, Idaho

"I have a blue and white store and use the PCCA logo as a logo of distinction among my doctors. It is great to receive free education and discounts. - Denise Orwick, RPh, Precision Compounding Pharmacy, New Albany, Ind.

"I like having continuing education and incentives to go to education. I also like the idea that I can earn back a bonus at the end of the year." - Dan Fucarino, RPh, Carrollwood Pharmacy, Carrollwood, Fla.

PCCA FORMULA SPOTLIGHT

By Melissa Merrell, PharmD, PCCA Pharmacy Consultant

Some general technique formulas have been moved to the Documents section of the Members-only Web site, allowing for future development of our new formulation database. For example, the Enteric Coating Procedure, Monsel's Paste and Yule Log Salts are now PCCA Documents.



Enteric Coating Procedure – PCCA Document #97811 is a good application to use when the patient needs the drug to be released in the intestines rather than the stomach. This dosage form also helps to mask bitter taste. The document explains all the equipment needed and the appropriate calculations to formulate this dosage form.

A few popular PCCA Enteric Coated Capsule formulas are listed below:

PCCA Formula #8157 – Diclofenac Sodium 50 mg Enteric Coated Capsules Size #1

PCCA Formula #8473 – Nicotinamide Adenine Dinucleotide 5 mg SR Enteric Coated Capsules Size #1

PCCA Formula #2620 –Pancreatin 300 mg Enteric Coated Capsules Size #1

Ferric Sub sulfate Paste (Monsel's Paste) – PCCA Document #97812 describes the dehydrating of Ferric Sub sulfate Solution USP (Monsel's Solution) to achieve a desired paste consistency. This preparation is a common hemostatic agent used after lower genital track biopsy or excision. The application is best when it is a thick, toothpaste consistency.

Yule Log Salts (Flame Colors, Fire Colors) – PCCA Document #97813 allows you to create different flame colors based on the salt solution used to soak the logs. This might be a nice creative touch for the Fall season!

The PCCA Formulation Team is continuously updating existing formulas with newer information, such as beyond-use dating, USP guidelines, improved procedures, etc. – so please check the Members-only Web site often for the newest version of an existing formula. If you have any questions regarding the PCCA Formulas or Documents, please call the Pharmacy Consulting Department.



SEMINARS & SYMPOSIUMS

Men's Health Symposium

The Aging Male – Testosterone and Other Major Concepts for Healthy, Vital Living

November 8, 2008

DoubleTree Hotel Dallas at Market Center, Dallas, Texas

Featured speakers: Scott Isaacs, MD, FACP, FACE; Christopher Cutter, MD and Bruce Biundo, RPh

Anti-Aging/Cosmeceutical/BHRT Symposium

November 13-15, 2008

Sheraton Mission Valley San Diego Hotel, San Diego, Calif.

Featured speakers: Rebecca Glaser, MD; Pamela Smith, MD, MPH; Daniel Banov, RPh, MS; Gus Bassani, PharmD; Mark Gonzales, PharmD and Monica Kaul, RPh

Quality Assurance for Compounders Symposium

November 14-15, 2008

PCCA Learning Center, Houston, Texas

Featured speakers: Keisha Lovoi, RPh; Megan Jeffrey, MS; Bill Zolner, PhD and Renee Prescott, PharmD

TRAINING

Aseptic Technique Compounding

November 17-19, 2008

USP <797> Implementation Aseptic Compounding

October 27-29, 2008

Primary Compounding

November 3-6, 2008

PCCA/PK Software

November 7, 2008

Technique for Technicians

November 10-12, 2008

PCCA CANADA

Technique for Technicians Training

November 12-14, 2008

PCCA Canada Learning Center, London, Ontario

PCCA Canada BHRT for Males & Females Symposium

November 21-22, 2008

PCCA Canada Learning Center, London, Ontario

Featured speakers: Rebecca Glaser, MD, FACS; Lawrence Komer, MD, FRCS; Pamela Smith, MD, MPH; Bruce Biundo, RPh; Phil Hudson, RPh and Julia Turner, CPhT

Primary Compounding Training

December 1-4, 2008

PCCA Canada Learning Center, London, Ontario

PCCA AUSTRALIA

Quality Assurance for Compounders Symposiums

November 1-2, 2008

November 8-9, 2008

Sydney, Australia

Primary Compounding Training

November 18-21, 2008

Sydney, Australia

New PCCA Base!

PCCA Anhydrous Lipoderm® (PCCA #30-4283)

By Gus Bassani, PharmD and Daniel Banov, RPh, MS
PCCA Pharmacy Consultants



Need an anhydrous transdermal base? Try PCCA's new ANHYDROUS Lipoderm®.

Utilizing similar technology to the well studied and popular base, Lipoderm, PCCA has created an ANHYDROUS version that is designed for actives that are unstable in water. Like Lipoderm, the new **Anhydrous Lipoderm** has been intensively studied in order to validate its ability to transport drugs through human skin (see information below).

When do you need Anhydrous Lipoderm?

- When an active ingredient is unstable in water.
- If aqueous stability is uncertain.
- Soy allergy (most other transdermals have soy)
- Preparing transdermals for autism
- When you DON'T want the hassle of making Anhydrous PLO!!

Anhydrous Lipoderm, Important Characteristics:

- No water, no worries for aqueous unstable actives.
- **Validated** – Proven to deliver ketoprofen through human skin and better than PLO.
- **Soy-Free** – This base utilizes an egg-based phosphatidylcholine and may provide a better alternative for autistic patients.
- **High in Natural Ingredients** – Whenever possible natural ingredients were used, such as: Pomegranate Seed Oil, Emu Oil, Plukenetia Volubilis Seed Oil (from Peru), Cupuacu Butter (from the Amazon) and Vitamin E.
- **High in Unsaturated Fatty Acids** – the Peruvian Amazonia Plukenetia Volubilis Seed Oil is the richest source of unsaturated fatty acids, which can reach 94% of its composition with 50% omega-3.
- **Silky Feel**
- **Paraben-Free**

Pomegranate Seed Oil contains an abundant amount of punicic acid, a compound closely related to conjugated linoleic acid (CLA).

Emu Oil – originally the Australian Aborigines used emu oil for minor aches and pains, to heal wounds, and protect their skin. This oil is world renown for its ability to deeply penetrate all five epidermis layers of the skin providing nutrients like essential fatty acids Omega-3 and Omega-6 (EFA).

Cupuacu Butter (from the Amazon) – highly beneficial for dry and damaged skin and hair, promoting deep, long-lasting hydration. It has a high water absorption capacity. The high level of essential fatty acids and phytosterols within *Theobroma grandiflorum* gives it the ability to restore elasticity to the skin.

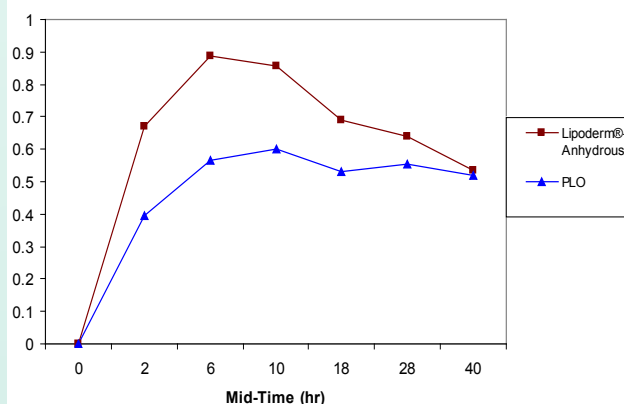
Validation

PCCA aggressively studied the ability of Anhydrous Lipoderm and PLO to deliver ketoprofen across human skin. PCCA teamed up with the highly regarded dermatologic laboratory PRACS Institute – Cetero Research to conduct this study. Using PCCA's Special Micronized Ketoprofen USP, PCCA Anhydrous Lipoderm performed better than PLO.

The study was designed to evaluate the percutaneous absorption pharmacokinetics of PCCA's Special Micronized Ketoprofen. Absorption was measured in human *ex vivo* skin, *in vitro*, using the finite dose technique and Franz Diffusion Cells.

The data indicate that PCCA's Special Micronized Ketoprofen did penetrate into and through human skin, *in vitro*, from the test formulations provided. The absorption profiles indicate a rapid penetration to a peak flux occurring at approximately 7-8 hours after dose application followed by a steady decline thereafter. **PCCA Anhydrous Lipoderm performed better than PLO** at delivering PCCA's Special Micronized Ketoprofen through human skin.

Percutaneous Absorption Flux Profile of Ketoprofen: (Mean from 3 Donors as $\mu\text{g}/\text{cm}^2/\text{hr}$)



Anhydrous Lipoderm® performed better than PLO at delivering ketoprofen through human skin. Both formulas contain 10% Ketoprofen with 8% Propylene Glycol and 2% Ethoxydiglycol as wetting agents.

Other Formulation Examples:

Glutathione 20%/Emu Oil 10% Topical Anhydrous Lipoderm® (PCCA Formula #9251)
Glutathione (L) Reduced 20 gm
Emu Oil 10 gm
PCCA Anhydrous Lipoderm® 70 gm

Methimazole 5 mg/0.1 mL Topical Anhydrous Lipoderm® (PCCA Formula #9252)
Methimazole USP 1 gm
PCCA Anhydrous Lipoderm® q.s. 20 mL

Other Actives Commonly Used in Anhydrous Transdermals

Secretin
DMPS (PCCA Formula #9248)
Atomoxetine (Strattera®)
DMSA (PCCA Formula #9249)

**Many other actives can be used, but these are actives that have limited or uncertain aqueous stability.*



PCCA

compound with confidence®

9901 South Wilcrest Drive
Houston, Texas 77099
Phone: 281/933-6948 or 800/331-2498
Fax: 281/933-6627 or 800/874-5760
www.pccarx.com

IN THE NEWS

NEWS MAKERS

Congratulations! Paul Franck, RPh and the staff of **Franck's Pharmacy** in Ocala, Fla., celebrated their 25th anniversary recently! They did so in style with more than 150 veterinarians, physicians, patients and others from the community enjoying a



Paul Franck with PCCA's
Richard Harwood.

spectacular Open House on September 4th, from 4 to 8 pm. The special event featured a live band, catered hors d'oeuvres, tours of the facility, compounding exhibits showing various dosage forms, etc., and giveaways including magnets, coffee cups and tote bags for the attendees. A large custom glass mosaic horse served as a great backdrop for event photos and represented the huge amount of equine and other veterinary compounding that Franck's Pharmacy does. For the kids, Franck's had a rock climb and moonwalk ready for action. As the Open House occurred partially during business hours, the attendees could view actual compounding going on through the pharmacy lab's large glass windows. A great time was had by all. Congratulations, Franck's Pharmacy, on a fantastic 25 years!

Michael Leake, RPh, of **Louisville Pharmacy** in Louisville, Ky., has been spotlighted in *Business First of Louisville* – "Compounding Pharmacist Makes Drugs the Old-fashioned Way – He Mixes Them." The well-written article describes the extensive consultation Mike provides for his patients, explaining what compounding is and what their prescription will entail. "I sit and explain what is in the bottle, jar or tube, what the ingredients are for and how the patient might benefit from the prescription." Mike also explains up front to the patient what is involved in preparation time and process.

Congratulations! Martha Shepard, DPh, of **Dickson Apothecary** in Dickson, Tenn., recently was presented with the Bowl of Hygeia Community Service Award at the 121st Annual Convention of the Tennessee Pharmacists Association in Chattanooga. Sponsored by Wyeth-Ayerst Laboratories, it is one of the pharmacy association's most prestigious state-level awards, presented to pharmacists with outstanding records of civic involvement.

PCCA e-News • The latest information from PCCA is now accessible via e-mail. Receive the latest *Apothogram* in an electronic format before it hits your mailbox as well as up-to-the-minute features and news from PCCA.

Please e-mail communications@pccarx.com with the e-mail address where you would like the news delivered.



Copyright © 2008 PCCA. *Apothogram* is a news and information publication for PCCA Members. It is published by PCCA · 9901 South Wilcrest Drive · Houston, TX 77099. PCCA is an equal-opportunity employer. Corporate Communications: 800/331-2498