

NEWSNOTES

CHILDREN'S DIABETES FOUNDATION — WINTER 2015



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THE 29TH CAROUSEL BALL

On October 2, the Children's Diabetes Foundation held the 29th Carousel Ball at the Hyatt Regency Denver at Colorado Convention Center.

Nearly 1,100 people attended the gala to enjoy an elegant and entertaining night while raising \$1.1 million dollars benefiting the Barbara Davis Center. *Continued on page 6*

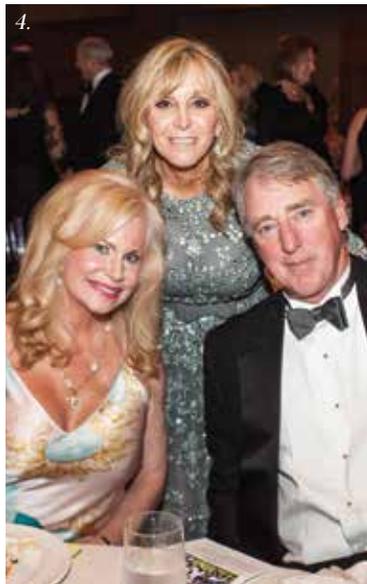
1. Usher
2. David Foster
3. Paige & John Elway

Carousel Ball photos: © Glenn Janssen, © kentmeireisphotography.com and ©Jensen Sutta

The Carousel Ball



1. John Elway, Barbara Davis, Shane Hendryson, Dana Davis, Paige Elway
2. Steve Farber
3. Samita, Kavita & Dr. Satish Garg.
4. Annabel Bowlen, Iris Smith, Joe Ellis
5. Ana, George & Robert Reinhardt



The Carousel Ball



1. *Doug Tisdale*
2. *Usher and son*
3. *Kelly Levesque*
4. *Peyton Manning, Barbara Davis*
5. *Mindy Stearns, Barbara Davis,*
6. *Dana Davis, Arlene Hirschfeld, Madeline van Orman, Mariella Rickel*

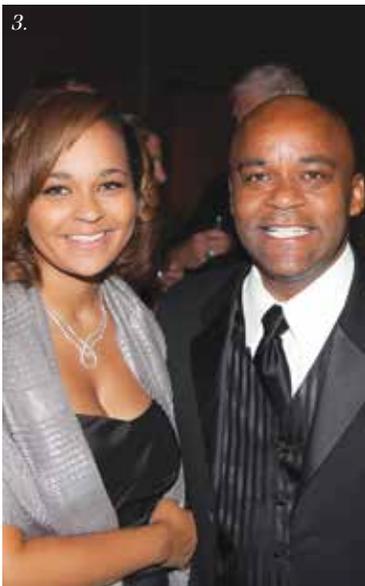
The Carousel Ball



1. *Congresswoman Diana DeGette*
2. *Peter H. Coors II*
3. *Usher, Forte Tenors (Josh Page, Sean Panikkar, Hana Ryu)*
4. *Ethan, Savannah, Heather, & Todd Schieck*
5. *Judy & Charlie McNeil*



The Carousel Ball



1. Shane Hendryson, Gypsy Benitez, Dana Davis, Aqib Talib
2. Linda & Dr. H. Peter Chase
3. Janae & Mayor Michael B. Hancock
4. Ruben Studdard
5. Senator Cory & Jaime Gardner

The Carousel Ball

● The Carousel Ball honored John and Paige Elway with the High Hopes Tribute Award and included entertainment by Usher, David Foster, Ruben Studdard, and more!

● The program was kicked off by 2015 event chairs, Dana Davis and Shane Hendryson. These two joined the Children's Diabetes Foundation (CDF) staff this year (Dana as the Interim Executive Director) and have made a huge impact since their arrival. Dana and Shane welcomed and thanked attendees and sponsors for supporting CDF and for making the Carousel Ball possible. Then, they introduced Barbara Davis, the Honorary Chairman of the Carousel Ball and Founder of the Children's Diabetes Foundation and the Barbara Davis Center. Barbara Davis was touched by the love and support the world has shown CDF and the BDC as we search for a cure for this disease.

● This year's prayer child was a special guest, Usher Raymond V, also known as "Cinco." He is the son of the vivacious performer Usher, who whispered the prayer into his son's ear for him to repeat to the crowd. It was truly heartwarming to see Usher with his son on stage, particularly since Cinco was diagnosed with type 1 diabetes last year.

Steve Farber was presented the Founder's Award for helping the Children's Diabetes Foundation and the Barbara Davis Center since their inception. His work has been truly instrumental in the future of diabetes care and we could not have done it without him.

The next speaker was Congresswoman Diana DeGette, who goes beyond the call of duty to serve as the co-chair of the Congressional Diabetes



Cameron, Tracy & Madeline van Orman, Shane Hendryson, Dana Davis, Audrey, Nikki, Aaron & Margot Rea

Caucus in the U.S. House of Representatives. She encouraged everyone to come together so we can truly make a difference.

Doug Tisdale, our auctioneer held an incredible paddle raiser for the crowd. Donors were excited to donate their funds to specific needs for diabetes patients, such as insulin and testing supplies, appointment costs, sending kids to diabetes camp for a summer, and others. The paddle raiser generated an astounding \$284,000.

The evening honored John and Paige Elway with the High Hopes Tribute Award for their philanthropic efforts in the community, including the Boys and Girls Club, dog related causes, and more. The couple was introduced and invited on stage by their friends, Glenn and Mindy Stearns. The Elways are wonderful advocates for diabetes as they discussed everyone becoming a team to fight diabetes as a united front because, "we can only win this if we stand together."

The audience experienced an incredible line-up of knock-out

entertainment. David Foster, the Master of Ceremonies and Music Director, kept the surprises coming throughout the night. He invited John Elway to join him on stage and sing for the crowd. He also walked through the audience to get three ladies to take a turn singing their song of choice, including Madeline van Orman, a Barbara Davis Center patient.

The first portion of the entertainment included the Forte Tenors, Ruben Studdard and Kelly Levesque. The artists wowed the crowd with a mix of opera, classic hits, and popular tunes. Ruben Studdard won Denver's heart when he spontaneously created a song called "Go Broncos." Kelly Levesque's performance included Barbara Davis's favorite song, "I Will Always Love You."

The headlining entertainment for the evening was Usher. Everyone rushed the stage to sing and dance along with his incredible performance. Not only is he a talented artist, he also is an inspiring advocate for diabetes. Usher's son has recently been diagnosed with type 1 diabetes



David Foster, Barbara Davis

and as a parent, he knows what every diabetic is going through to manage their health. He took a tour of the Barbara Davis Center earlier that day and was blown away by the state-of-the-art center and the passionate doctors and staff. This cause is close to his heart and he reminded everyone that we all need to get involved so we can search for a cure.

Between the entertainment and advocacy, we will never be able to forget this night and we hope you won't either!

This event couldn't happen without our incredible sponsors. Please join us in thanking: Tina & Rick J. Caruso – The Grove, The Crazy Merchant Inc. & the WILMAC Foundation, CBS, The Corley Legacy Foundation – Tom, Lisa, Alex and Spencer Corley, HBO, Viacom & Paramount Pictures, George and Mary Sissel, A. Barry & Arlene Hirschfeld and Sharon Magness Blake & Ernie Blake, The Solich Fund & Andrisen Morton, Revelstoke Capital Partners, and Hyatt Regency Denver at Colorado Convention Center, among many others.



Hyatt Regency Denver's ballroom

The 2015 Live Auction raised: \$123,000. The live auction items included the following:

1. A beautiful lemon quartz and diamond pendant from John Atencio, which sold for \$9,200.
2. A seven night Mediterranean cruise for two people from SeaDream Yacht Club, which sold TWICE for \$15,000 each.
3. A 2016 New York Film Festival and Lincoln Center experience along with his and hers watches presented by Hyde Park Jewelers and Jaeger-LeCoultre, which sold for \$17,000.
4. An insulin pump signed by Peyton Manning, John Elway, and Usher, which sold for \$12,500.
5. Two VIP tickets to the Denver Broncos vs. Indianapolis Colts game in Indianapolis, IN. The trip included a chartered flight and bus transportation with the Denver Broncos and a room at the team hotel. The first winner surprised the audience by donating the \$30,000 bid to the Children's Diabetes Foundation. The tickets then sold again for \$25,000.

Beyond the live auction held by auctioneer Doug Tisdale, there were over 220 incredible items available at the silent auction, which raised \$87,000. These items included fabulous stays at many St. Regis Hotels, scrumptious dinner packages and various items autographed by celebrities.

Attendees left the event with fabulous gift bags. The bags themselves were sponsored by Ghurka. Items in the bag were from: 20th Century Fox, Baker Creek, Heirloom Seed Company, BING Beverage Company, Swire Coca-Cola, USA, Colorado Homes & Lifestyles, Jackie Collins, Enstrom Candies, Food Should Taste Good, Forever 21, Ghurka, Glutino, Jewels For Hope, Justin's, Kat Burki, Kitsch, Mercedes-Benz, USA, Nick Chavez Beverly Hills, Pinrose, Poparuba Cake Bites, Reign Magazine, Silvercar, Sir & Sport Magazine, SmartyPants Vitamins, Sprouts Famers Market, Stella & Dot, Union & Fifth, The Walt Disney Company, and Wrigley.

The Children's Diabetes Foundation would like to thank every Carousel Ball attendee and sponsor for supporting our cause. The funds raised at the gala will benefit the Barbara Davis Center, which cares for thousands of children and adults with diabetes from around the world. Thank you for your generosity and for making this a night we will never forget.

The Carousel Ball

BIONIC PANCREAS' MARCH TO MARKET GOES THROUGH CU

By Todd Neff – This article first appeared in UHealth Insider

David Maahs, MD, PhD, pulled his iPhone from his shirt pocket and placed it on his desk in the Barbara Davis Center for Childhood Diabetes. He tapped into a polished-looking app that displayed twin tiles, one labeled 20204, the other 20205. Each tile was flanked by two small traffic lights, one labeled “Hypo,” the other “Hyper.” Between the traffic lights displayed a large number, an arrow, and a couple of other numbers.

The tile labeled 20204's large number read 251; its neighboring arrow was flat. The other tile's number was 148, with the arrow trending down. The traffic lights showed all green.

“I was just walking with these two,” Maahs said, his being slightly out-of-breath corroborating the words. “They're headed back over to Children's now.”

The numbers 20204 and 20205 denoted individual kids with type 1 diabetes. The 251 and 148 were their blood-glucose levels, in milligrams per deciliter. The arrows marked the trend – up, down, or flat. The data hitting Maahs's iPhone came from smartphones the kids carried on their walk back to Children's Hospital Colorado, and everywhere else during this particular clinical trial – one of several with ambitious goals in which Maahs and colleagues at the Barbara Davis Center are participating.

CLOSING THE LOOP

The grand goal of those who



Robert Slover, MD and David Maahs, MD, PhD

treat type 1 diabetes, an autoimmune disease the Juvenile Diabetes Research Foundation (JDRF) said affects more than a million adults and some 200,000 children in the United States, is to cure it. But a close second is to manage it as precisely as possible with minimal human intervention, improving blood-sugar control and minimizing the sorts of long-term damage (high blood sugar levels increase the risk of eye, kidney, nerve, and heart problems) for which spiking and crashing blood glucose paves the way.

The mechanism for accomplishing that is a closed-loop pancreas, otherwise known as an artificial pancreas – or, most tantalizingly, a bionic pancreas. Promising systems are in clinical trials now, many of which run through the University of Colorado's Barbara Davis Center, a longtime innovator and proponent of automated glucose monitoring and insulin dispensing. Experts there say that, assuming trials continue to go as well as they have been

going, an artificial pancreas could be U.S. Food and Drug Administration-approved and on the market within three years.

“I've been doing this for 40 years and I never would have dreamed we'd get here,” said Robert Slover, MD, a CU School of Medicine professor who leads the Barbara Davis Center's pediatric clinic.

Maahs, a University of Colorado School of Medicine pediatric endocrinologist, is spearheading the Barbara Davis Center's bionic pancreas work, taking the baton from his now semi-retired colleague and artificial pancreas pioneer H. Peter Chase, MD. Those efforts involve several CU faculty working on no fewer than five studies funded by the National Institutes of Health, another by the JDRF, another by the National Science Foundation, and two by Medtronic, the medical device maker, where Slover is the point man.

HOW IT WORKS

The app running on Maahs's

phone was not the brains of an artificial pancreas, but rather monitoring software. That data, though, was indeed coming straight from the brains of his subjects' artificial pancreases, which now come in the form of their own smartphone apps.

Simply put, the pancreas is to a large degree a blood-sugar control system. When blood sugar gets too high (hyperglycemia, the "Hyper" in the app on Maahs's phone), the pancreas lowers it by releasing insulin, which helps move glucose out of the bloodstream and into the cells. When blood sugar gets too low (hypoglycemia, the "Hypo" in the app), the pancreas withholds insulin to maintain blood sugar levels and secretes glucagon to increase them.

But in patients with type 1 diabetes, the body's immune system kills the pancreas cells that produce insulin, ruining this fine-tuned biological balance.

The artificial pancreas aims to recreate that balance. In the case of the University of Virginia-developed Diabetes Assistant system, the rebalancing takes three devices: a continuous glucose monitor, an insulin pump, and a smartphone. The continuous glucose monitor keeps steady tabs on blood sugar and informs the smartphone of the status via a Bluetooth connection. The smartphone app, using algorithms developed at Rensselaer Polytechnic Institute (aka RPI, in Troy, N.Y.), then tells the pump whether to pump or not, day and night.

The night part is critical. More than half of seizures from cratering blood sugar levels in adult diabetes patients happen during sleep. Among children, it's 75 percent. Maintaining

nighttime control was a main artificial pancreas goal from the beginning, Chase said. Now, Maahs noted, the new devices "work great overnight, when the patient's not being challenged by food or exercise. We've got that figured out."



Victoria Gage, RN, with a prototype bionic pancreas at the Barbara Davis Center in 2009.



Six years later, the brains of a bionic pancreas reside in a smartphone app.

WORK TO DO

The Barbara Davis Center's role has been to harness its expertise in diabetes care, its large patient base (and one that's most enthusiastic about the artificial pancreas, Maahs added), and its skills and infrastructure in supporting clinical trials and partnering with technologists in academia and industry who are developing artificial pancreas hardware and software. The team doesn't back any particular system, Maahs said. There won't be a single artificial pancreas, but several, he predicted, giving patients a choice in the marketplace.

The artificial pancreas has become a national and international focus of research and development. Studies from Maahs and his colleagues and other teams from Stanford University, Boston University, the University of Virginia, and the University of Cambridge have all shown promising results.

The same applies to ongoing trials and those whose results have yet to be published, said Slover. An adult trial whose local principal investigator is Barbara Davis Center endocrinologist Satish Garg, MD, is going so well that the patients don't want to give up the devices,

Barbara Davis Center

THE BARBARA DAVIS CENTER'S ARTIFICIAL PANCREAS TEAM

- David Maahs, MD, PhD • Robert Slover, MD • H. Peter Chase, MD
- Gregory Forlenza, MD • Satish Garg, MD • Paul Wadwa, MD
- Laurel Messer, RN, MPH (study coordinator)

Two additional RNs, a registered dietitian and two research assistants also work with the team.

The University of Colorado's artificial pancreas research team collaborates with the following institutions: Stanford University, University of Virginia, Rensselaer Polytechnic Institute, Jaeb Center for Health Research, University of California Santa Barbara, University of California San Diego, Harvard University, Boston University, Yale University, and Cambridge University.

Barbara Davis Center



Photo: ©Martin Crabb

Slover said. The same has been common among children and their families exposed to the technology. Slover is kicking off a trial in the coming weeks that will enroll up to 20 kids who will wear the devices for a week under close supervision in a rented house, then keep wearing them for three months at home. If it goes well, Slover said, it could get the technology over the FDA-approval line.

The Barbara Davis Center's artificial pancreas work goes beyond the technical. Maahs said psychologists consult with patients using the trial devices to get a better understanding of usability and what they like and don't like about them.

The systems are still a long

way from plug and play, Maahs added. The continuous glucose monitor needs calibration a couple of times a day, for example, which involves a finger prick. Insulin pumps need to be refilled. Patients still need to manually tell the pump when they're about to eat because the insulin takes 20 minutes to start kicking in.

LOOKING AHEAD

Nor will FDA approvals end work on the bionic pancreas – any more than the invention of the first bricklike analog cell phone marked the end of mobile communications development. Consider the photo of Victoria Gage, RN, with the 2009 version of the control module and its bulbous D batteries, in light of the sophistication and elegance

of the smartphone-based systems available only a half-decade later.

Maahs said he and others are starting to consider things like how an accelerometer might help these systems know when a patient is running or sleeping. Slover said that in addition to insulin and glucagon (which can provide a quick blood-sugar boost in cases of a crash), future artificial pancreases could dispense incretins, which are hormones that regulate the gut absorption of sugar.

“In a few years, we will have an artificial pancreas,” Slover said. “Will we have a better one five years after that? I hope so.”



LORI SUSSEL, PhD NAMED BDC RESEARCH DIRECTOR



We are very pleased to announce that Lori SusseL, PhD has been named

Director of the Basic and Translational Research Division at the Barbara Davis Center for Childhood Diabetes in the School of Medicine at the Anschutz Medical Campus. Dr. SusseL will join the Center on a part-time basis on January 1st 2016, transitioning entirely to the BDC by April 1st, 2016. Her recruitment is supported by the Dean of the School of Medicine, the Children's Hospital Colorado Research Institute and the Children's Diabetes Foundation. Dr. SusseL is joining the BDC from the Department of Genetics and Development and the Naomi Berrie Diabetes Center at Columbia University Medical Center. She has served there as co-director of the University's Integrated Program of Cellular, Molecular Biomedical Science Graduate Program and co-Principal Investigator of the NIDDK funded Endocrinology Training Grant. She is also currently serving as interim co-director of their Stem Cell Program.

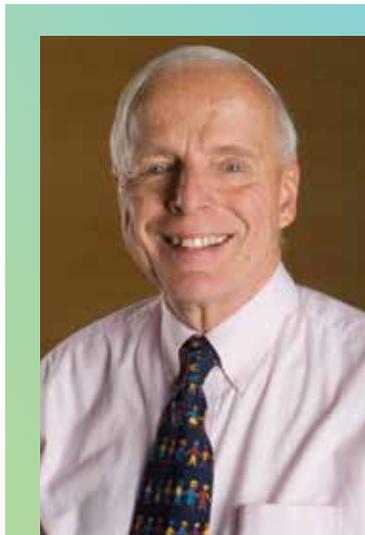
The main focus of Dr. SusseL's research is to understand the complex transcriptional

networks that regulate development, differentiation and function of the pancreas. Her early studies led to the ground-breaking discovery that a ghrelin-producing endocrine cell population normally resides in the fetal islet and she further discovered several novel regulatory pathways essential for normal pancreas development and maintenance of beta cell identity. At the Naomi Berrie Center for Diabetes her research has addressed issues relating to the regulation of beta cell identity and function with a specific focus on transcription factors and long non-coding RNAs. Her goal is to master the process of in vitro and in vivo generation of beta cells and apply this knowledge in future trials of islet regeneration and transplantation. At the Barbara Davis Center she will join an established team of scientists dedicated to finding a cure for type 1 diabetes, facilitating new avenues of research dedicated to understanding the complex interactions between beta cells and the immune system.

The Barbara Davis Center specializes in type 1 diabetes research and cares for thousands of children and adults. It is one

of the largest diabetes institutes in the world. Clinicians, clinical researchers, and basic biomedical scientists work at the BDC to find the most effective treatment, prevention, and cure for type 1 diabetes. The Center's faculty teach the medical, physician assistant, nursing, and dental students on campus. Residents and endocrinology fellows train at the Center on elective rotations. Basic science faculty members provide mentorship to pre-doctoral students and post-doctoral fellows from around the world. The Center is part of the University of Colorado School of Medicine and has its dedicated building on the Anschutz Medical Campus in Aurora, Colorado. The Center was funded by Barbara and Marvin Davis, in 1978, and is generously supported by the Children's Diabetes Foundation (CDF).

Many thanks to the search committee chaired by Dr. Philippa Marrack from National Jewish Health and its members representing multiple departments and divisions of the School of Medicine for their commitment to this important recruitment effort that will benefit the BDC and diabetes research.



DR. H. PETER CHASE



As of December 31, 2015, Dr. H. Peter Chase will no longer be seeing Barbara

Davis Center patients in the pediatric clinic. However, he will still be working behind the scenes with the doctors and nurses for research and publications. We are happy to continue working with Dr. Chase in 2016!

Barbara Davis Center

Barbara Davis Center

THE BDC CELEBRATES 10 YEARS IN THEIR BUILDING

The Barbara Davis Center (BDC) celebrated 10 years in their state-of-the-art building on November 4th.

The celebration included a lunch for all Barbara Davis Center and Children's Diabetes Foundation staff as well as some special guests, including Former Colorado Representative Bob Gardner and Frieda Eisenbarth.

Dr. Marian Rewers, the Executive Director of the Barbara Davis Center, thanked everyone for a decade of care and research that has truly made a difference for diabetics around the world. Dana Davis, the Executive Director of the Children's Diabetes Foundation, also thanked everyone for working together to accomplish an incredible amount for our patients and their families.

After the lunch and thank yous, there was a surprise visit from the Pink Panther! To make the celebration even better, Dana Davis was the one wearing the costume!

We would like to thank everyone who has made the past decade a success. We are so thankful for the Barbara Davis Center since it allows doctors and staff to provide world-class care for their patients with the latest technology and advances.



Photos this page: ©Jensen Sutta

QUESTIONS AND ANSWERS

— H. Peter Chase, MD



Did I hear something recently about intranasal glucagon?



Yes, Lilly Diabetes announced on October 9, 2015 that they have

purchased the rights to Locemia's intranasal glucagon. Researchers at the Barbara Davis Center have known this was coming for some time, as Dr. Paul Wadwa at the Center has been one of the leaders in the research. Phase 3 studies have been completed in both adults and children, and the results look favorable. The median time to raise the blood sugar (≥ 70 mg/dL) in adults was 15 minutes, compared to 10 minutes for the same people who received an intramuscular (IM) glucagon injection (on a different day). This is inconsequential as it takes the extra 5 minutes to mix and draw up the insulin for the IM injection. Fortunately, the intranasal insulin had a lower rate of nausea (41%) compared to the IM injection (67%). As the nasal glucagon is passively absorbed through the nasal lining, it remains effective in unconscious patients. The company also evaluated subjects with nasal congestion and the intranasal glucagon was still absorbed.

This will be a great help for schools, as it has been an issue for years relating to giving a shot of glucagon for severe hypoglycemia when a nurse was unavailable. Anyone will be able to administer the intranasal



Photo: © Glenn Janssen

glucagon. The hope is that Lilly will be able to receive regulatory approval and have the product commercially available within one to two years.



You answered questions about the bionic (artificial)

pancreas in the 2015 Summer issue of NewsNotes. Is anyone using it in the home setting currently?



Yes. The research is progressing rapidly. After a 3-month study

in adults, the FDA has allowed a 2 year extension to allow these adults to use the bionic pancreas 24/7. Dr. Satish Garg, in the adult clinic of the Barbara Davis Center, has been a leader of this study. The 3 month studies are taking place in children at the Barbara Davis Center in December 2015 and January 2016. It is hoped that they will also then be allowed to use the bionic pancreas 24/7 for up to two years at home. Dr. Robert Slover is in charge of the children's studies at the Center. The future is NOW!

Questions and Answers

Carousel Days

BOO BASH



We were so impressed (and a little spooked) by the costumes worn by our

Barbara Davis Center families at the Boo Bash on Sunday, October 25 at the Colorado School of Mines. The kids were able to celebrate Halloween in a sugar-free zone as they decorated pumpkins, played carnival games, painted their nails and faces, and more. The pumpkin decorating contest was a hit as kids competed in their age bracket for the best decorated pumpkin. There were also door prizes and a costume contest, dancing, a limbo competition, and a costume parade for all the kids!

It was great to see all these families celebrating Halloween together, a holiday largely associated with candy and sweets. But we discovered, you don't need extra sugar in your system to have a good time!

A sincere thank you to all the volunteers who helped these families have a safe and fun Halloween celebration!



Photos this page: ©Lauren Lanning

Charlotte Tucker Scholarship



*Elizabeth Anderson
University of N. Colorado*



*Brynelle Barnard
University of Colorado*



*Tyler Bibbey
Colorado State University*



*Luke Boardman
Whittier College*



*Erin Doyle, University
of Colorado/Denver*



*Navid Farahani
University of Colorado*



*Marissa Graham, University
of Colorado, CO Spring*



*Joshua Hartle
Liberty University*



*Holly Huggins
Colorado State University*



*Mayde Jackson
University of Denver*



*Chase Ketterling, South
Dakota School of Mines*



*Cassidy Knutzen,
University of Colorado*



*Aleeza Lampert, University
of Northern Colorado*



*Elle McGinn
Colorado State University*



*Micah Mesward
Bethel College*



*Bryce Montes
Lipscomb University*

Charlotte Tucker Scholarship



*Benjamin Naegele
Alaska Pacific University*



*Jessica Orton,
University of Wyoming*



*Michael Pritchard
Tabor College*



*Paige Rooney
University of Colorado*



*Candace Ross
Metro State University*



*Amira Sheikh
University of Colorado*



*Austin Southard
Colorado State University*



*Quinn Tomasino, Neosho
County Community College*



*Celina Tovar
University of Colorado*



*Jason VanHare
Colorado School of Mines*

2015 CHARLOTTE TUCKER SCHOLARSHIP

The Guild of the Children's Diabetes Foundation gathered at Cherry Creek Country Club to award Barbara Davis Center patients with the Charlotte Tucker Scholarship.

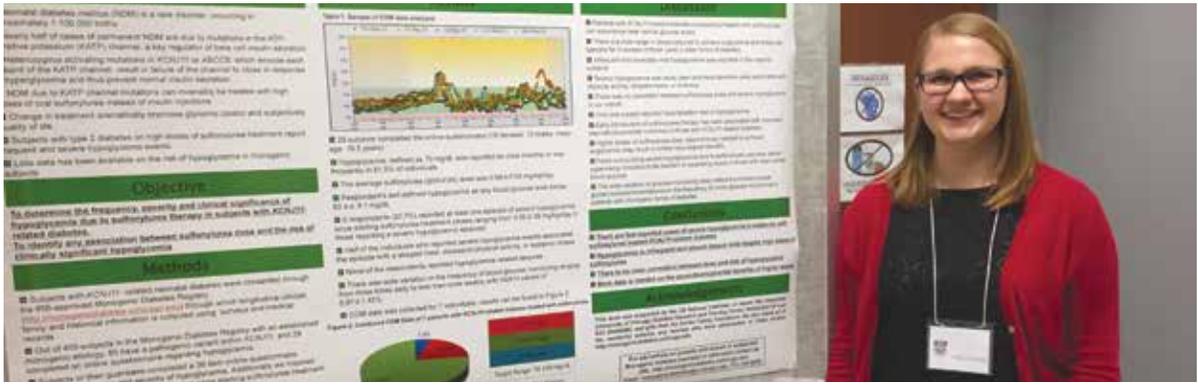
The scholarship was established in memory of past Guild President, Charlotte Tucker, who encouraged young people from the BDC to follow higher career and education pursuits.

Guild President, Shelley Lucas, welcomed recipients, families and guests. Chairwoman Lori Finch introduced each as Shelley presented them with a certificate of recognition. Steven Lucas spoke about his journey with diabetes and encouraged students, stating "I chose to succeed because of diabetes and refused to let it dictate my future. You can too."

Thank you to Stephanie Babbitt who served as Reception Chair, for making this day a huge success, enjoyed by all. Also, thanks to the Selection Committee.

SCHOLARSHIP OPPORTUNITIES FOR 2016-17
Applications for 2016-17 will be available in February 2016. For information, email Susie Hummell after February 15, 2016 at susie@childrensdiabetesfoundation.org.





MONICA LANNING'S DEDICATION TO RESEARCH

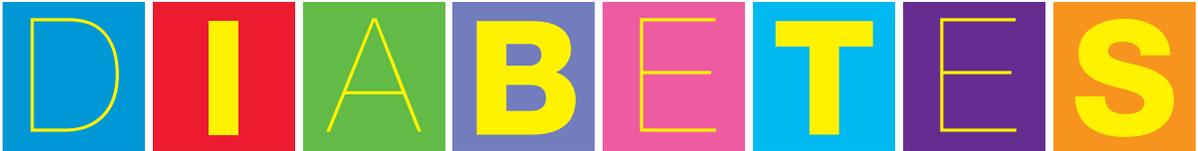
In 2001, at the age of seven, Monica Lanning participated in her first research study at the Barbara Davis Center for the Glucowatch Continuous Glucose Monitor (CGM). On that snowy Saturday, the kids gathered all the rolling chairs from surrounding offices around the center and raced down the hallway. This

exciting introduction to the BDC convinced Monica to continue participating in every research study she could. She got to know the doctors and staff in the research center incredibly well over the years!

Fourteen years later, inspired by her friends at the BDC, she is a third year undergraduate student studying biology at the University of Chicago and conducts her own

diabetes research. She collects and analyzes data gathered from people with monogenic diabetes about hypoglycemia associated with high doses of oral medication. She recently presented her findings in a poster at the university's 10th Annual Diabetes Day Conference and won an award for top poster. She hopes to have her first publication soon!

Way to go, Monica!



WORD SEARCH

Word Bank: insulin, diabetes, glucose, blood, sugar, dose, doctor, pump, monitor, test

C	W	M	A	P	W	D	I	A	B	E	T	E	S	U
M	T	Z	P	S	W	H	P	U	J	N	C	U	X	Q
L	V	E	Y	X	W	W	K	X	A	V	Z	P	K	Y
J	R	M	S	G	L	U	C	O	S	E	K	R	Q	Y
L	X	T	M	T	V	X	D	C	U	U	L	N	T	V
X	Z	J	M	W	H	Z	L	H	U	X	H	X	G	R
F	K	N	O	O	B	N	O	Q	W	E	B	I	R	K
Z	G	O	N	N	P	T	A	D	N	N	U	H	O	S
U	B	I	I	P	Y	W	L	V	I	P	K	S	T	W
G	L	X	T	U	C	O	C	L	Z	M	T	F	C	V
Z	O	O	O	Y	C	S	U	G	A	R	E	Y	O	J
D	O	P	R	J	V	S	N	I	J	H	M	M	D	Y
J	D	L	R	W	N	L	Y	C	V	F	E	D	Y	G
G	R	P	K	I	X	M	P	M	U	P	F	K	N	W
P	A	C	L	M	P	U	C	E	E	S	O	D	Y	V



TIED TO A CURE LAS VEGAS GOLF FLYAWAY TOURNAMENT

With just 24 hours in Las Vegas, we certainly made the most of our time with our 101 golfers for the Tied to a Cure Las Vegas Golf Flyaway Tournament!

One hundred and one eager golfers met at Signature Hangar at the Denver International Airport on November 5th to meet with patients and families of the Barbara Davis Center. Eight kids

who were incredible advocates walked around to talk with golfers about life with diabetes. The kids even offered to take blood sugar tests for the golfers so they knew what these kids were going through 6 to 10 times a day! The golfers loved this interaction and were reminded that they were raising funds to help children living with type 1 diabetes. Robert Reinhardt, a 10 year old living with type 1 diabetes, spoke to the golfers about the endless tasks needed to manage diabetes on a daily basis.

The tournament was hosted at the exclusive Shadow Creek Golf Club. The views were incredible on the course as the golfers were swinging towards beautiful mountains, waterfalls, and greens. After golfing, the players were able to explore Las Vegas before their stay at the Bellagio, Las Vegas.

The Children's Diabetes Foundation is incredibly grateful to co-chairs Michael McDonald, Dan Fuller and Todd Schieck for their passion and vision to raise funds for type 1 diabetes. Thanks also go to our generous sponsors: McDonald Automotive, Audi of America, Exquisite Kitchen Design, Ekman Design Studio, Designs By Sundown, Xssentials, Urban Frontier, Epicurean Group, Escalante, and Austin/Hauck Co.

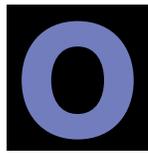
The 2016 Las Vegas Golf Flyaway Tournament dates will soon be announced. Please check the CDF website to see our upcoming events.

The Tied to a Cure golf tournaments benefit the Children's Diabetes Foundation and the Barbara Davis Center, where thousands of children and adults receive state-of-the-art care for diabetes.



Photos this page: ©Jensen Sutta

● NON-PROFIT OF THE GAME AT THE COLORADO ROCKIES



On August 14, attendees had a fantastic time watching the Colorado Rockies play the San Diego Padres and supporting the Barbara Davis Center (BDC). While the Rockies did not come out with a win, the doctors and patients of the BDC felt like winners as they walked onto the field. Rebecca Brodie, Zoey Hathaway, and Annie Williams along with Dr. David Maahs and Dr. Paul Wadwa enjoyed a behind-the-scenes look at Coors Field before they got to smile and wave on the big screen from the batting area!

Many of the ticketholders sat in the Children's Diabetes Foundation (CDF) section sporting their CDF shirts with pride as they watched the game. CDF had a booth close to home plate which got attention from current BDC friends and new people interested in the work of the Children's Diabetes Foundation and the Barbara Davis Center.

Thank you to all of our attendees who cheered on the Children's Diabetes Foundation and the Colorado Rockies!



IT'S TIME TO REGISTER!

**Practical Ways to Achieve Targets in Diabetes Care
July 14-17, 2016**

WHAT: Join us in beautiful Keystone, Colorado for this annual meeting designed for healthcare providers caring for adolescents and adults with diabetes.

WHO: Certified diabetes educators, internists, pediatricians, family physicians, physician assistants, nurse practitioners, nurses, dietitians and healthcare providers interested in learning the most up-to-date diabetes information from world-renowned diabetes experts.

REGISTRATION DETAILS: View program details and registration information at:
www.regonline/atdc.com

Questions? Contact Marijane Engel:
mj@childrensdiabetesfoundation.org or 303-628-5115

WHY SHOULD YOU #KNOWTHESYMPTOMS?



ou have probably seen that throughout the month of November, we

were pushing for everyone to #KnowTheSymptoms of diabetes. We thought this was an incredibly important message to spread throughout #DiabetesAwarenessMonth and we would like tell you why...

Working at the Children's Diabetes Foundation, we talk to diabetics and their families all day and it's amazing how similar some of their stories are. Before they are directly affected by the disease, most people don't know what diabetes really is, what the symptoms are, or how it can really affect a person's life. That's why we need to take these steps to educate people. If you

know the symptoms of diabetes, you can recognize them and encourage anyone showing the symptoms to see a doctor and inquire about diabetes.

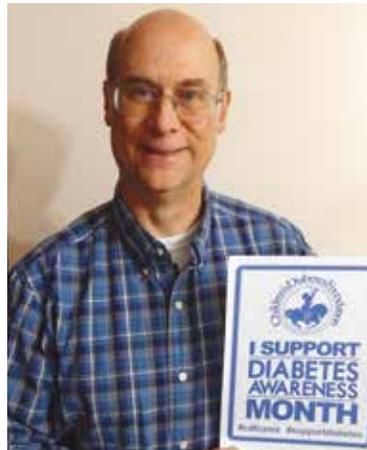
Pre-diagnosis, most parents recognize there is something physically wrong with their child, but they don't know what. Sometimes that can lead to a child not being properly diagnosed for a week, a month, a year. When diagnosis is delayed, the child isn't getting the proper treatment, meaning that long term complications are more likely to occur. Even worse, a child could have a seizure, go into a coma, or die if a diagnosis isn't made. This is downright frightening.

The only way to avoid these occurrences is to educate. Know

the symptoms, read reputable sources, and ask the right questions. Then tell your friends what you know to spread the message.

In our campaign, we mentioned that early detection can save a life. That's not just something we say because it "sounds" impactful. It's real. You can save a life by simply knowing the symptoms of diabetes:

- **Extreme thirst**
- **Frequent urination**
- **Lethargy**
- **Increased appetite**
- **Sudden weight loss**
- **Sudden vision changes**
- **Fruity/Sweet odor on the breath**
- **Unconsciousness**

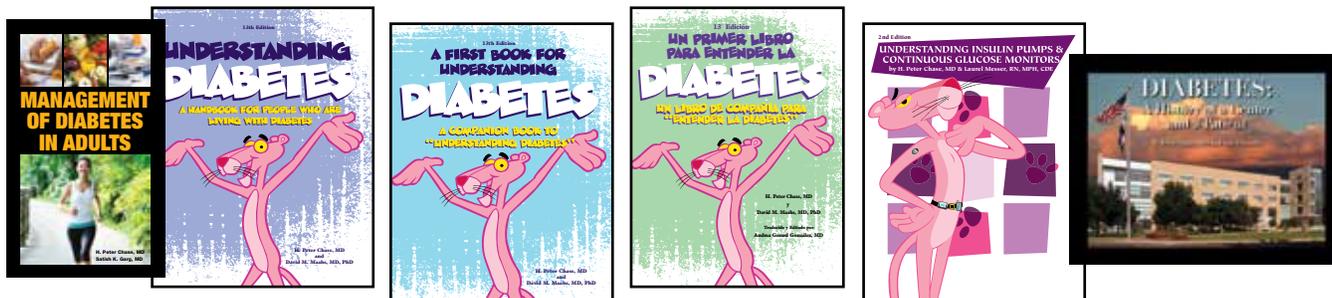


THANK YOU FOR HELPING US SPREAD THE WORD!

PUBLICATIONS ORDER FORM

All our publications may be ordered by using this form or by calling the Children's Diabetes Foundation at 303-863-1200 or by visiting our website at www.ChildrensDiabetesFoundation.org.

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Quantity	Item	Price	Total
	<i>Understanding Diabetes</i> – “The Pink Panther Book,” 13 th Edition	\$25.00*	
	<i>Understanding Diabetes</i> – “The Pink Panther Book,” 12 th Edition Discounted while supplies last!	\$10.00*	
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NEWSNOTES will be published quarterly by the Children's Diabetes Foundation. We welcome your comments.

If you would like to submit an article or a letter to Newsnotes send information to: mattie@childrensdiabetesfoundation.org

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Know the symptoms of Childhood Diabetes:

- Extreme thirst
- Frequent urination
- Weight Loss
- Excessive irritability
- Bedwetting (previously controlled)



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A child reaching for the brass ring on a carousel is symbolic of the most important goal of the Children's Diabetes Foundation — The Cure. Your contribution on behalf of a loved one will make a difference. It will support treatment programs to assist children with diabetes in leading healthier lives and it will fund research to help CDF "Catch the Brass Ring" by finding a cure.

Mark an anniversary, birthday or special occasion. Express appreciation or make a memorial tribute in honor of someone special with a contribution — for any amount — to the Children's Diabetes Foundation at Denver. We now accept gifts online at www.ChildrensDiabetesFoundation.org.

Donations are tax deductible.
Tax ID #84-0745008

The Brass Ring Fund

Remember a loved one — Help CDF "Catch the Brass Ring"

Enclosed is my contribution of \$ _____
In memory of _____
In honor of _____
Occasion _____

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SHARE YOUR STORY



The Children's Diabetes Foundation now has a blog featuring personal stories, realizations, experiences, questions, and thoughts of people affected by diabetes. This includes diabetics, their family members, significant others, doctors, nurses, social workers, etc. Really anyone who is impacted by diabetes in any way.

This blog allows us to create a diabetes community. By reading other's stories, you will realize that you're not alone in this. We are all going through this together and we are constantly learning about ourselves, our minds and our bodies so let's join together!

We would love to hear your story and share it on our blog! If you would like to write a story, contact Mattie Peck at mattie@childrensdiabetesfoundation.org. Go to www.ChildrensDiabetesFoundation.org to read our previous blog posts!

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KNOW THE SYMPTOMS OF TYPE 1 DIABETES

**Extreme Thirst • Frequent Urination
Lethargy • Irritability • Weight Loss • Vision Changes**