Goecke.

non-operatively

nal pain.

in a room full of people.

TUESDAY, SEPTEMBER 4, 2012

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This year, Royal Columbian Hospital celebrates 150 years of excellent service and patient care since it first opened its doors in 1862 with 30 beds, a historic milestone for B.C.'s first hospital. Today, RCH is one of the busiest emergency hospitals. treating the most critically ill patients from Fraser Health and the province, with the busiest air ambulance in B.C. Serving one in three British Columbians, RCH is the area's only hospital to have high-risk maternity, a neonatal intensive-care unit, cardiac and neurosciences all on

one site. To mark this milestone anniversary, RCH Foundation has launched a "150 Reasons to Give" fundraising campaign to buy new medical equipment to continue to provide the highest level of patient care. This is the first of a 10-part ROYAL COLUMBIAN series running in The Province sharing the stories of people whose lives were touched, changed and saved by their experience at RCH. To donate to the Royal Columbian Hospital Foundation, please go to rchcares.com or call 604-520-4438.



Marco Lundy suffered serious injuries after being thrown from a horse she was training last October. The trauma team at RCH wrestled with a life or death decision in treating her lacerated liver.

Tough call for trauma team

HEALTH: Woman's life hangs in the balance

Tam Lundy got a call at 8.30 p.m. in the evening of the day she had stepped off an airplane, jet-lagged, from Europe. It was the kind of call no parent wants to get.

ROYAL COLUMBIAN CELEBRATES 150 YEARS

Her daughter, Marco Lundy, 36. had been thrown from a horse that morning and was at Royal Columbian Hospital in critical condition. Marco had a severely lacerated liver, so severe that it had nearly split in half.

"She is lucky to be alive," says RCH trauma nurse practitioner risk of increased bleeding due Kathleen Fyvie

Stables in Langley, where she is were placed on her legs in an effort immersed in her life's passion; to prevent clot formation. An IVC racehorses. On Oct. 5, 2011, the filter was placed in the large blood horse she was training reared up vessel that takes blood from the legs and fell over backwards, dumping and organs to the heart, to reduce Marco to the ground and landing on top of her.

Her work colleagues immediately called 911. After a brief stop at the local community hospital, Marco's condition was deemed lifethreatening and she was rushed by ambulance to RCH

Marco's injuries consisted of broken ribs, a collapsed lung, fractured pelvis and a life-threatening, tion in the early days of her stay.

LINA TOYODA high-grade liver laceration. Led by trauma physician Barry

Miller and Evvie, the RCH team — including intensivist physician Derek Gunning and surgeon Morris Bojm — decided to take a nonoperative route

The liver injury was unique in terms of the extent of the laceration," says Fyvie,

Due to the high risk of blood-clot formation after traumatic injuries, it is common practice to give patients preventive medication to hin their blood, she says. "However, in Marco's case the

to this medication was too great. Marco works for Terry Clyde Sequential compression devices the possibility of any clots reaching the heart, which could be fatal."

Marco had difficulty breathing because of the pain from the rib fractures and pressure on her diaphragm caused by the extensive blood collection in her abdomen. This put her at high risk of pneumonia and she was admitted to the High Acuity Unit for close observa-

ry therapists worked to the intervention but for ensure her lungs were the total level of caring." functioning, Acute-pain she says, "The system service NP Brenda Poul- was interested in learnton followed her daily ing. People were paying adjusting her pain con- attention and were quick trol, but complications to respond."

arose as a result of her "If you operate on a co's injury, "Some unique high-grade liver injury decisions were made that there is a high chance of death, and if you don't said. operate and then man-

decision with risks either way. We decided that Marco was stable enough to attempt non-operative management," said daughter at RCH, I fell Goecke, who was intri- in love with her all over cately involved in Mar- again. I saw what strong co's management. "We were on uncharted ter- that I didn't know that, ritory. This type of injury would rarely be managed me" she said

After a two-month stint

says Marco

Of her time at RCH: Thinking back on the "For such a rotten thing whole experience, Marto have happened to me, co's mother Tam recalls I had an awesome expeher daughter "crashing" rience in the hospital. It was a good environment. I was surrounded "I have done a lot of work in health care as a by lots of laughter - and human- and social-devel- I'm profoundly grateful opment consultant, but I to the nurses and doctors developed a lot of respect who saved my life. They

Nurses and respirato- es at RCH. Not just for

Goecke points to the rarity of the extent of Marultimately paid off," she

She says that Marage the injury incorrect- co's successful recovy, the patient could also ery was due to thoughtdie. Either choice is life- ful and attentive manthreatening," said trau- agement and intervenma surgeon Michelle tion by RCH staff and physicians, along with "The RCH trauma team Marco's baseline good had to make a difficult health and tenacious

Throughout this time, mom staved close by. "Spending time with my stuff she is made of. Not but there it was in front of

As Marco started to show in hospital, Marco went signs of recovery, the IVC home. Today, her healing filter was removed and continues, and although she began slowly walkshe's back at work, she's ing in her room. The folstill not allowed on horselowing day, however, back. She will have a fur-Marco started to experither CT scan in Octoence increased abdomiber and is hoping for a resounding all-clear A CT scan showed new

bleeding from the liver "I feel just wonderful and she was sent to interabout getting on a horse ventional radiology for again. I have loved them specialized treatment. At all my life, from when first the same time, a clot was I knew what they were," discovered in a vein so the IVC filter was reinserted.

for the doctors and nurs- were amazing.



Dr. Robert Hayden, right, the first physician to perform open-heart surgery at Royal Columbian Hospital in 1991, discusses the technically advanced Cell Saver with Dustin Spratt, chief perfusionist for Royal Columbian Hospital. Mr. and Mrs. P.A. Woodward's Foundation donated \$40,000 toward the purchase of the new machine.

Saving blood at Royal Columbian

WILLIAM MBAHO

SPECIAL REPORT

Donating blood is in high demand, but atastrophic blood loss for trauma patients donating equipment to save a patient's

Patients who undergo surgery at Royal Columbian Hospital can breathe a sigh of relief knowing that donors like Mr. and Mrs. P.A. Woodward's Foundation are helping to ensure equipment is available to safely store and reuse their blood during an

is invaluable in helping patients who would otherwise rely on blood transfusions.

Used to suction blood from surgical sites. the Cell Saver washes the blood, removing all contaminants such as broken blood cells and fat molecules and gives the patient back their own blood, full of healthy red blood cells.

At Royal Columbian Cell Savers are used blood, he explains.

70 per cent of the time in cardiac surgery. "We also use the Cell Saver for people like but they are also used in any situation of

or for patients with large blood-vessel issues

are able to salvage the patient's own blood during the surgery," says Royal Columbian Hospital's chief perfusionist, Dustin Perfusionists are specialists who run heart

and lung machines during surgery. Cell Sav-The technology is called a Cell Saver and it ers help about 450 patients a year at Royal Columbian. The hospital has five Cell Savers and they cost about \$45,000 each.

"With a Cell Saver we're able to take blood and filter it," says Spratt, "We're left in the end with pristine blood cells. This decreases the like lihood of having to give the patient a blood transfusion."

It is always best to use a patient's own also helps stops bleeding

Jehovah's Witness believers who object to having blood transfusions."

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Royal Columbian has had Cell Savers for about 20 years, but for the last 10 years the "The idea behind the Cell Saver is that we current Cell Savers the hospital had were getting on and needed to be replaced.

"We were very fortunate that Mr. and Mrs Woodwards came along and offered to buy one for us," says Spratt.

"It is fantastic to have donors like the Woodwards family to help us out, because funding is a challenge in health care. Sometimes we have equipment that comes to the end of its life and we have to push beyond So it was very timely for them to help us get this equipment.

Spratt explains the new equipment also uses more advanced technology that collects red blood cells better, and the result



A reason to give. What's your reason?

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