Funding a new hope for research into rare tumors

By Rachel Kirkpatrick

Editor

When Mikey Czech was diagnosed in January 2008 with a diffuse intrinsic pontine glioma (DIPG), a rare pediatric brain tumor, his parents Steve and Jennifer were told there was little that could be done. Up until that point, doctors in the United States were hesitant, if not unwilling, to biopsy these brain tumors due to their locations in the brainstem expert in the world on DIPG, translational research laboratory and the perceived risks.

often diagnosed, went through Cancer Institute - one of the five oped. intense, experimental chemother- doctors they consulted following With the support of the afore- researchers to get to this point apy or radiation, and they died, Mikey's diagnosis. mentioned foundations, Kieran and it was done, notably, with as Mikey did exactly nine months "We were very impressed with obtained the live tissue samples \$700,000. Czech knows that with later at age 11.

Mikey Czech Foundation, the but you said this tumor was not Broad Institute of Boston (a joint There are no pharmaceutical Czechs set out to tell Mikey's biopsiable, why?" venture between Harvard Medical companies willing to write a big story and to be a resource for The Czechs learned that while School and the Massachusetts check for research - nor is the people like themselves, who neurosurgeons in the U.S. were Institute of Technology), where federal government - at least for struggled with the lack of infor- not willing to do these biopsies, the tumor cells can be deciphered now, because this cancer is so mation available on DIPGs. And Parisian neurosurgeons are - and to identify their molecular make- rare. So when Czech, a hedgenow, their hard work and perse- have, successfully. verance, and that of their sup- In fact, at that time the Czechs in nanotechnology and biomedi- ond fund, the \$1.1 billion Czech

annual "Soaring Towards a Cure" taken of these tumors by French already identified 2,000-plus dif-ment to donate a fixed percentage gala on November 19, the Czechs neurosurgeons and not one of ferent mutations that cause canannounced that a major clinical them had a single complication. cers in general. trial is being launched in the U.S. With backing from the founthat could provide more informa- dation, Kieran set out to convince next phase, the U.S. phase of "For the first time, there is a and, in turn, the best way to treat been believed. them.

told the Advertiser.

On a mission

brain tumors diagnosed in chil- Now, The Mikey Czech these DIPG tumors. dren between the ages of three Foundation, in conjunction with "The idea being that each one and 16, according to the foun- six other foundations, is fund- of these kids now, for the time, is dation. DIPGs are inoperable, ing a new clinical trial which going to have his or her own cus-unable to be biopsied.

patients diagnosed with DIPGs first time. die within one year of diagnosis;

nearly 100% die within five years include: The Zach Carson DIPG of diagnosis.

ments include various clinical Research & Clinical Fund at the past 30 years) which, to date, and Stop & Shop Pediatric Brain government involvement. have proven no more effective Tumor Research Fund. "The extent to which people than conventional treatment."

Czechs identified the foremost tion is to establish a dedicated Dr. Mark W. Kieran of Harvard where these tumors can be stud-Children with DIPGs were Medical School/Dana-Farber ied and remedies can be devel-

Through the creation of The to him and said, 'Look, everyone in Paris and took them to the possibilities are endless.

porters, has begun to pay off. met with Kieran, the doctor told cal engineering, Czech said. At the foundation's fourth them there had been 20 biopsies

"This just goes to show you geons from 20 U.S. hospitals are going to get biopsied. Those "And that's what it is going to they said, 'You're right - we them to the 'encyclopedia' of into the field." can do this." (A list of the par- mutations that are already known

allowing these tumors to be biop- to just throwing everything at Approximately 80% of sied in the United States for the the wall and seeing what sticks," said.

Participating foundations

Fund, The Ellie Kavalieros DIPG

A new laboratory

"We're going to launch this Foundation. "He convinced the neurosur- the day they get diagnosed, they Czech said.

Czech said.

Just \$700,000

In the two and a half years "Conventional treatment con- Fund, The Prayers From Maria The Mikey Czech Foundation sists of general radiation and Foundation, Children's Hospital has been in existence it has raised chemotherapy," according to the of Los Angeles Imaging Center, more than \$1.5 million in fundfoundation. "Alternative treat- The Pediatric Brain Tumor ing. As Czech points out, this has been accomplished at the grasstrials (approximately 250 over Dana-Farber Cancer Institute, roots level, with no corporate or

have reached out has been incred-Following Mikey's death, the A second goal of the founda- ible," Czech said. "I always refer to New Canaan as my 18,000person family, because of the way the community has embraced us. We'll always be grateful."

It has taken 10 years for him," Czech said. "We went back of the 20 biopsies from children consistent funding and support,

up using the "latest and greatest" fund manager, raised his sec-Asset Management, LP, last year, The Broad Institute has he made a contractual commitof his personal profit from the hedge-fund to The Mikey Czech

tion than ever on the molecular 20 U.S. hospitals that this proce- this," Czech said. "What's going meaningful, sustainable source of makeup of these DIPG tumors dure was not as dangerous as had to happen at these 20 centers funding for efforts solely directed where the kids get diagnosed is, toward pediatric brain tumors,"

that when people get together, here with the Parisian neurosur- live tissues will be flown to Broad take - there has to be a sustainwhen you focus on something geons and said, look, here's the and they're going to identify what able source to keep these people and are relentless in its pursuit, technique," Czech said. "And the molecular markers are, what interested in researching it, but you can change anything," Steve once they saw that technique, the mutations are, and compare also to attract other researchers

Nearly four years since the DIPG is one of the most ticipating U.S. hospitals is avail- in an effort to identify existing loss of his only son, Czech is aggressive and deadliest forms of able at NCAdvertiser.com.) remedies that can be used to treat finding a comfortable balance in life.

"It's very simple: it's family, faith, foundation and the fund, and the fact of the matter is, the incurable and - until recently was approved on November 11, tom-made treatment, as opposed fund and foundation's success are very much aligned," Czech