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Tom Petty died last year because of an accidental drug overdose that his family said occurred on the same day he found out his hip was broken after performing dozens of shows with a less serious injury.

His wife and daughter released the results of Petty's autopsy via a statement Friday on his Facebook page, moments before coroner's officials in Los Angeles released their findings and the rocker's full autopsy report. Dana and Adria Petty say they got the results from the coroner's office earlier in the day that the overdose was due to a variety of medications.

The coroner's findings showed Petty had a mix of prescription painkillers, sedatives and an antidepressant. Among the medications found in his system were fentanyl and oxycodone. An accidental overdose of fentanyl was also determined to have killed Prince in April 2016.

Petty suffered from emphysema, a fractured hip and knee problems that caused him pain, the family said, but he was still committed to touring.

He had just wrapped up a tour a few days before he died in October at age 66.

"On the day he died he was informed his hip had graduated to a full on break

and it is our feeling that the pain was simply unbearable and was the cause for his over use of medication," his family's statement said, adding that he performed more than 50 concerts with a fractured hip.

The family said Petty had been prescribed various pain medications for his multitude of issues, including fentanyl patches, and "we feel confident that this was, as the coroner found, an unfortunate accident."

They added: "As a family we recognize this report may spark a further discussion on the opioid crisis and we feel that it is a healthy and necessary discussion and we hope in some way this report can save lives. Many people who overdose begin with a legitimate injury or simply do not understand the potency and deadly nature of these medications."

Painkillers and sedatives are among the most commonly prescribed medications in the U.S., but both drug types slow users' heart rate and breathing. The Food and Drug Administration has warned against mixing them because the combination can lead to breathing problems, coma and death.

Government figures released in December showed that for the first time, the powerful painkiller fentanyl and its close opioid cousins played a bigger role in the deaths than any other legal or illegal drug, surpassing prescription pain pills and heroin.

Petty was a rock superstar with the persona of an everyman who drew upon the Byrds, Beatles and other bands he worshipped as a boy in Gainesville, Florida. He produced classics that include "Free Fallin'," "Refugee" and "American Girl." He and his longtime band the Heartbreakers had recently completed a 40th-anniversary tour, one he hinted would be their last.

The shaggy-haired blond rose to success in the 1970s and went on to sell more than 80 million records. He was loved for his melodic hard rock, nasally vocals and down-to-earth style. The Rock and Roll Hall of Fame, which inducted Petty and the Heartbreakers in 2002, praised them as "durable, resourceful, hard-working, likable and unpretentious."

Visualizing connected processes to reduce bottlenecks What causes loss of productivity?

It has become increasingly difficult to identify productivity bottlenecks using conventional approaches to improving manufacturing processes. Now we have a new approach, that uses IoT to analyze the links between these processes. Based on Big Data analysis and artificial intelligence in manufacturing environments, the new self-learning simulation technology helps optimize production planning by proactively preparing and responding to possible changes. Hitachi is breathing new life into manufacturing.

Okuma Corporation, a comprehensive machine tool manufacturer, is currently working on achieving mass customization that delivers productivity equivalent

to that of mass production, even in ultra-high-mix low-volume manufacturing. Here, we introduce a new proof-of-concept model which combines the efforts of Okuma and Hitachi, focusing on a faster factory control cycle* and the evolution of production visualization.
* A process control system to immediately and accurately identify where and how components are processed in a factory.
VIEW MORE>

New "eyes" that quickly reveal the invisible
Data is amassing daily for traceability and operational logs, and efforts are already under way to use data to predict defects. Special cameras, for example, can record situations with the movements of people or conditions with materials or facilities, analyzing the large amount of information with artificial intelligence to detect potential manufacturing equipment breakdowns or assess the actions of specific operators. We will improve productivity by preventing defects, precisely assessing changes or abnormalities with respect to workers, objects, or equipment that would otherwise be imperceptible to human eyes while ensuring thorough traceability.
Customer case study

Daicel Corporation, which manufactures core components for airbags, has developed in collaboration with Hitachi an image analysis system that quantitatively determines the status of machines, materials, and worker activities on the front lines of manufacturing. The system uses 3D form-recognition depth cameras for early detection of defects in machines and materials and deviations in worker activities, helping on-site management supervisors to take measures to prevent accidents. For more information, check out the following link.
VIEW MORE>
THE FUTURE OF MANUFACTURING IS OPEN TO SUGGESTIONS
With a long history of offering a wide range of products and services, Hitachi improves efficiency and productivity in manufacturing by integrating operational technology to control and run production systems as well as information technology to analyze data on workers, materials and equipment. Here, we have showcased more about Hitachi's initiatives to support manufacturing evolution.

Case Studies and Outlook for Linked Factories

Hitachi is working to provide new industry solutions based on the symbiotic autonomous decentralization concept.

IoT-based Production System
Hitachi's Omika Works is seeking to implement smart manufacturing practices that utilize the IoT.

Hitachi Technology 2017
"Hitachi Technology 2017" presents articles on topics in Industry & Distribution.
Hitachi uses state-of-the art IoT and artificial intelligence (AI) technologies to reduce workloads on production lines while increasing productivity and quality. After analyzing manufacturing performance data based on 16 months of testing, Hitachi has developed an Image Analysis System that quantifies the standard behavior model of worker, the status of equipment and materials, and anomalies such as deviations in worker activities or line equipment that may result in failures.

An infrastructure for accelerating user-friendly manufacturing
Daicel Corporation has taken various initiatives of production innovation, including visualizing the expertise highly skilled personnel need to pass on to succeeding generations. Daicel selected Hitachi as its collaborative creation partner in a project intended to advance these initiatives still further. Developed based on joint testing by both companies, the image analysis system uses depth cameras to extract 3-D forms in order to measure worker activities. The system collects positional information on human joints, such as hands, elbows, and shoulders, then statistically compares a base standard behavior model with actual movements to identify differences. It uses a similar method to monitor equipment and materials, detecting and reporting signs of anything out of the ordinary by analyzing differences from images of standard operations. This system is expected not just to improve quality and work efficiency, but to help realize effective countermeasures and training by identifying trends in operational errors. The system's achievements have drawn attention as a new type of infrastructure capable of supporting the user-friendly manufacturing approach Daicel seeks to achieve