# **MEDPULSE**

## Taking the Pulse of the World

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#### **Ovarian Cancer Drug Approved in UK**

October 2019 – United Kingdom

Ovarian cancer can be incredibly difficult to treat due to a lack of outward symptoms. As a result, the disease is estimated to be the 6th most common form of cancer in the United Kingdom. A pharmaceutical product called Rubraca can slow down the progression of the disease by killing cancer cells. This medication works by inhibiting poly ADP-ribose polymerase (PARP), a protein that helps repair damaged DNA. Cancer cells are unable to fix their damaged DNA, rendering them incapable of replicating. Rubraca was recently approved for prescription in the UK and is thought to be able to improve the quality of life of patients with ovarian cancer.

#### Teen Vaping Doubles in the United States

September 2019 – United States of America

Since 2017, the rate of e-cigarette use in teens has doubled in the US. In 2019, 25% of twelfth graders, 20% of tenth graders, and 9% of eighth graders reported having vaped nicotine in the past month. This increase is attributed to the variety of appealing flavours and perception of safety of vaping. The first death from e-cigarettes occurred in September 2019 and, since then, over 1479 cases with 33 deaths have been reported. The injuries are typically chemically induced and have been largely attributed to illicit vaping liquids and vaping products containing THC. While the majority of cases have been in the US, an increasing number of cases have been reported in Canada.

#### **Dengue Fever Stings in Honduras**

July 2019 – Honduras

Dengue is a viral infection that causes causes high fever and joint pain. It can develop into a potentially lethal complication called severe dengue. Over 40,000 cases and 135 deaths have been reported in Honduras in 2019, marking the worst outbreak of the virus in over 50 years. In comparison, only 8,000 cases were reported in 2018. The increase has led Honduras's government to declare a national emergency and fumigate the breeding grounds of yellow fever mosquitoes which spread the disease. Experts speculate that climate change and Honduras's three-month rainy season may have contributed to the epidemic.

### Madariaga Virus Discovered in Argentina

September 2019 – Argentina

Madariaga virus is a mosquito-borne disease originating in Panama. The virus has slowly spread across Central and South America since 2010. Little is known about the symptoms and fatality of this disease, as less than a dozen cases have been documented. However, it is thought to be similar to equine disease. The Madariaga virus has recently been discovered in mosquitoes in Argentina. Scientists working with the Institute of Virology with National University of Córdoba are currently looking at how this virus is spreading across South American countries and how future outbreaks can be prevented.

