



*The Phase 1 clinical trial tests the safety of providing City of Hope-developed AOH1996 to people with reoccurring solid tumors.*

**LOS ANGELES** — City of Hope, one of the largest cancer research and treatment organizations in the United States, today announced that the first patient to receive its novel, promising cancer medicine AOH1996 is doing well. The [Phase 1 clinical trial](#) testing the safety of a potentially cancer-stopping therapeutic developed by City of Hope in people with reoccurring solid tumors is expected to continue for the next two years. The investigational pill has been effective in preclinical research treating cells derived from breast, prostate, brain, ovarian, cervical, skin and lung cancers.

[Linda Malkas](#), Ph.D., professor in City of Hope's Department of Molecular Diagnostics & Experimental Therapeutics, has been working on the research and subsequent discovery and development of AOH1996 for 20 years.

[AOH1996 is named after Anna Olivia Healey](#), a young girl born in 1996 who unfortunately was not able to beat cancer. AOH1996 is exclusively licensed by City of Hope to RLL, LLC, a biotechnology company that Malkas co-founded.

Malkas believed that proliferating cell nuclear antigen (PCNA), which plays an essential role in the replication and repair of cells, would be a less toxic cancer therapy that targets mutated cancer cells while leaving normal cells alone. The treatment has been shown in preclinical research to target PCNA and inhibit the growth and spread of a broad range of human cancer cells. The research protocol notes that AOH1996 is not toxic to normal cells. With this medicine both pauses cell DNA synthesis and inhibits PCNA, leading to a type of cell death known as apoptosis.

“Imagine cancer as the water filling up a bathtub. Left unchecked, the tumors or water will eventually overflow and damage other parts of your home. The

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treatment my team at City of Hope created is akin to a watchful homeowner who shuts the water off — stopping the spread of tumors to other parts of the metaphorical house — and then drains the tub, eliminating the cancer,” said Malkas, co-investigator in the trial and the M.T. & B.A. Ahmadinia Professor in Molecular Oncology.

[Vincent Chung](#), M.D., added, “By targeting PCNA, we are inhibiting the complex machinery to stop cellular growth and proliferation. This is a new way of trying to kill cancer cells or at least to slow it down.” He is a research professor in City of Hope’s Department of Medical Oncology & Therapeutics Research and principal investigator in the clinical trial.

The Phase 1 clinical trial is open at City of Hope Los Angeles. Its objective is to determine the maximum tolerated dose of the investigational pill, AOH1996, and to evaluate the medicine for preliminary efficacy. Eligible patients include adults with solid tumors who have not found standard treatments effective. Participating patients will be asked to take the medication in pill form twice a day.

“Since many patients’ cancers become resistant to our standard therapies, we need new therapeutics with new mechanisms of action — for example, non-cross resistant. AOH1996 is just that kind of new therapy,” said [Daniel Von Hoff](#), M.D., of the Molecular Medicine Division at the Translational Genomics Research Institute, part of City of Hope, and an advisor on the study. “Congratulations to Dr. Malkas and the City of Hope team on this new invention.”

Malkas said other targeted therapies, like checkpoint inhibitors, that inhibit the growth and spread of cancer have helped in the past, and he hopes that perhaps one day AOH1996 will be a U.S. Food and Drug Administration approved inhibitor that could be used in combination with other treatments to both enhance cancer-killing effects as well as improve the quality of lifesaving cancer treatments.

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With the infrastructure and support of City of Hope, Malkas was able to commercialize her basic research, moving her promising laboratory discovery into a clinical trial for people who need the therapies of tomorrow today. City of Hope provided structure, experts and even GMP (good manufacturing practice) facilities to manufacture her medicine.

City of Hope is devoted to supporting research and development and has infrastructure that is tailor-made to accelerate innovations from the lab to patients. This system includes everything ranging from funding support to access to counsel from internal and external drug development specialists. [City of Hope's R&D apparatus](#) leverages the combination of its fundamental strength in basic science and its patient-care focus as a comprehensive cancer center.

Individuals interested in this clinical trial should review the [eligibility requirements](#) at [clinicaltrials.gov](https://clinicaltrials.gov). If they believe they are eligible, they can call [626-218-1133](tel:626-218-1133) or visit [City of Hope's clinical trials webpage](#).

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## About City of Hope

City of Hope's mission is to deliver the cures of tomorrow to the people who need them today. Founded in 1913, [City of Hope](#) has grown into one of the largest cancer research and treatment organizations in the U.S. and one of the leading research centers for diabetes and other life-threatening illnesses. As an independent, National Cancer Institute-designated comprehensive cancer center, City of Hope brings a uniquely integrated model to patients, spanning cancer care, research and development, academics and training, and innovation initiatives. Research and technology development is the basis for [numerous breakthrough cancer medicines](#), including insulin and monoclonal antibodies. A leader in immunotherapy, such as [CAR T cell therapy](#), treatment protocols help advance cancer care throughout the world.

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With a goal of expanding access to the latest discoveries and leading-edge to more patients, families and communities, City of Hope's growing national system includes its main Los Angeles campus, a network of clinical care locations across Southern California, a new cancer center in Orange County, California, and Cancer Treatment Centers of America. City of Hope's affiliated family of organizations includes [Translational Genomics Research Institute](#) and [AccessHope™](#). For more information about City of Hope, follow us on [Facebook](#), [Twitter](#), [YouTube](#), [Instagram](#) and [LinkedIn](#).

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