

# Causative Agent Of Red Tide Is

Each cell has two flagella that allow it to move through the water in a spinning motion. *K. brevis* is unarmored, and does not contain peridinin. Cells are between 20 and 40 µm in diameter. *K. brevis* naturally produces a suite of potent neurotoxins collectively called brevetoxins, which cause gastrointestinal and neurological problems in other organisms and are responsible for large die-offs of marine organisms and seabirds. 0c459e9177 The cause of leukoplakia is unknown. Risk factors for formation inside the mouth include smoking, chewing tobacco, excessive alcohol, and use of betel nuts. One specific type is common in HIV/AIDS. It is a precancerous lesion, a tissue alteration in which cancer is more likely to develop. The chance of cancer formation depends on the type, with between 3-15% of localized leukoplakia and 70-100% of proliferative leukoplakia developing into squamous cell... 0c459e9177

Denman Island body and adductor muscles of the oysters therefore reducing marketability of the oysters. It was found that the causative agent of these lesions are associated Denman Island, (also known as Iháytayich in the Comox language, meaning "Inner Island"), is one of the Northern Gulf Islands and part of the Comox Valley Regional District of British Columbia, Canada. It is a member of the Islands Trust group of islands and is home to a small community of 1,391 year-round residents 0c459e9177

The Marine Mammal Center On a few occasions. discovered that domoic acid (DA) is the causative agent responsible for illness in a great many California sea lions. S. organization that was established in 1975 for the purpose of rescuing, rehabilitating and releasing marine mammals who are injured, sick or abandoned. DA is naturally produced by the diatom The Marine Mammal Center (TMMC) is a private, non-profit U. At the center, they receive specialized veterinary care: they are diagnosed, treated, rehabilitated and ideally, released back into the wild. Since 1975, TMMC has rescued over 28,000 marine mammals. These animals represent the following major species: California sea lions, northern elephant seals, Pacific harbor seals, northern fur seals, Guadalupe fur seals, Hawaiian monk seals, and southern sea otters. Marine mammal abandonment refers to maternal separation; pups that have been separated from their mother before weaning. It was founded in Sausalito, California, by Lloyd Smalley, Pat Arrigoni and Paul Maxwell. Animals in need of assistance are usually identified by a member of the public who has contacted the center. It also serves as a center for environmental research and education regarding marine mammals, namely cetaceans (whales, dolphins and porpoises), pinnipeds (seals, fur seals, walruses and sea lions), otters and sirenians (manatees and dugongs) 0c459e9177

== Description == 0c459e9177 The shell of a bivalve is composed of calcium carbonate, and consists of two, usually similar, parts called valves. These valves are for feeding and for disposal of waste. These are joined... 0c459e9177

*Karenia brevis* Due to the toxin that *K. K.* It is a marine dinoflagellate commonly found in the waters of the Gulf of Mexico. types of these HABs and the effects can vary, *K. brevis* has been known to travel great lengths around the Florida peninsula and as far north as the Carolinas. *brevis* is the causative agent of Florida Red

Tides. It is the organism responsible for the "Florida red tides" that affect the coastal parts of Florida, Texas and Mexico. *brevis* produces, these red tides *Karenia brevis* is a microscopic, single-celled, photosynthetic organism in the genus *Karenia* 0c459e9177

Common bivalves include clams, oysters, cockles, mussels, scallops, and numerous other families that live in saltwater, as well as a number of families that live in freshwater. Majority of the class are benthic filter feeders that bury themselves in sediment, where they are relatively safe from predation. Others lie on the sea floor or attach themselves to rocks or other hard surfaces. Some bivalves, such as scallops and file shells, can swim. Shipworms bore into wood, clay, or stone and live inside these substances. 0c459e9177 Palytoxin occurs at least in tropics and subtropics where it is made by *Palythoa* corals and *Ostreopsis* dinoflagellates, or possibly by bacteria occurring in these organisms. It can be found in many more species like fish and crabs due to the process of biomagnification. It can also be found in various sponges, mussels, starfish and cnidaria. 0c459e9177 *Karenia brevis* (*K. brevis*) was named for Dr. Karen A. Steidinger in 2000 but was previously known as *Gymnodinium breve* and *Ptychodiscus brevis*. It was first named *Gymnodinium brevis* in 1948, but was later changed to *Gymnodinium breve*, which correlates with the... 0c459e9177 Some species of oyster are commonly consumed and are regarded as a delicacy in some localities. Some types of pearl oysters are harvested for the pearl produced within the mantle. Others, such as the translucent windowpane oysters, are harvested for their shells. 0c459e9177

Oyster Denman Island off the eastern aspect of Vancouver Island, British Columbia. It was found that the causative agent of these lesions are associated with amitochondriate Oyster is the common name for a number of different families of salt-water bivalve molluscs that live in marine or brackish habitats. Many (but not all) oysters are in the superfamily Ostreoidea. In some species, the valves are highly calcified, and many are somewhat irregular in shape 0c459e9177

Human immunodeficiency virus (HIV) is a lentivirus that has two major species, HIV-1 which causes the majority of the epidemic, and HIV-2, a close relative whose distribution is concentrated in western Africa. HIV infection was first described in 1981 in San Francisco and New York City. In 1985, HIV was identified as the causative agent of acquired immune deficiency syndrome (AIDS) and its complete genome was immediately available. This knowledge paved the way for the development of selective... 0c459e9177

Bivalvia areas of a sea or lake may change colour as a result of the proliferation of millions of single-cell algae, and this condition is known as a red tide. In Bivalvia () or bivalves, in previous centuries referred to as the Lamellibranchiata and Pelecypoda, is a class of aquatic molluscs (marine and freshwater) that have laterally compressed soft bodies enclosed by a calcified exoskeleton consisting of a hinged pair of half-shells known as valves. Their gills have evolved into ctenidia, specialised organs for feeding and breathing. As a group, bivalves have no head and lack some typical molluscan organs such as the radula and the odontophore 0c459e9177

== Etymology == 0c459e9177 The word oyster comes from Old French oistre, and first appeared in English during the 14th century. The French derived from the Latin ostrea, the feminine form of ostreum, which is the latinisation of the Ancient Greek ὀστρεον (ostreon) 'oyster'. Compare ὀστέον (osteon) 'bone'. 0c459e9177 The earliest colonial settlers of Denman Island arrived during the 1870s. Some were attracted by the establishment of the Baynes Sound Coal Mine on the Tsable River, across Baynes Sound from Denman Island. Mine construction started in... 0c459e9177 Cochlodinium is thought to have a cyst-type overwintering stage in

their life cycle. This process allows *C. polykrikoides* to produce a specialized cell that is non-motile. These cells aggregate and rest in certain basins until conditions allow for reproduction and colonies to form. 0c459e9177 == History == 0c459e9177 The Island was seen and mapped by Europeans during the 1791 voyage of the Spanish ship *Santa Saturnina*, under Juan Carrasco and José María Narváez. It was named by Captain Richards in 1860 for Rear Admiral Joseph Denman who was commander of the Pacific station from 1864 to 1866. 0c459e9177 == Optimal growth conditions == 0c459e9177

**Sunflower sea star** This disease is known to be more prevalent and harmful in warmer water *Pycnopodia helianthoides*, commonly known as the sunflower sea star, is a large sea star found in the northeastern Pacific Ocean. Sunflower sea stars are predatory and carnivorous, feeding mostly on sea urchins, clams, sea snails, and other small invertebrates. They vary in color. The only species of its genus, it is among the largest sea stars in the world, with a maximum arm span of 1 m (3. Adult sunflower sea stars usually have 16 to 24 limbs. The sunflower sea star is classified as Critically Endangered on the IUCN Red List. 3 ft). Although the species was widely distributed throughout the northeast Pacific, its population rapidly declined from 2013. *Vibrio pectenica* strain FHCF-3 was identified as a causative agent of the disease 0c459e9177

== History == 0c459e9177

**Leukoplakia** It is now rare Oral leukoplakia is a potentially malignant disorder affecting the oral mucosa. stage of the infection. It is not considered to be a type of idiopathic leukoplakia, since the causative agent *Treponema pallidum* is known. Leukoplakia is a firmly attached white patch on a mucous membrane which is associated with increased risk of cancer. It usually occurs within the mouth, although sometimes mucosa in other parts of the gastrointestinal tract, urinary tract, or genitals may be affected. The edges of the lesion are typically abrupt and the lesion changes with time. It is defined as "essentially an oral mucosal white/gray lesion that cannot be considered as any other definable lesion. " Oral leukoplakia is a gray patch or plaque that develops in the oral cavity and is strongly associated with smoking. Advanced forms may develop red patches. There are generally no other symptoms 0c459e9177

*Cochlodinium polykrikoides* is a highly motile organism. They are generally found in aggregations of 4 or 8 cell zooids. Chain length is known to be affected by the presence of grazers and the inclusion of vitamins B1, B7 and B12. This species is also capable of mixotrophy, which makes them extremely persistent during a large algal bloom. *C. polykrikoides* exhibits diel vertical migration. 0c459e9177 *Cochlodinium polykrikoides* is... 0c459e9177 The classification of *K. brevis* has changed over time as advances in technology are made. 0c459e9177 Palytoxin is a polyhydroxylated and partially unsaturated compound (8 double bonds) with a long carbon chain. It has water-soluble and fat-soluble parts, 40 hydroxy groups and 64 chiral centers. Due to chirality and possible double bond cis-trans isomerism, it has over 1021 alternative stereoisomers. It is thermostable, and boiling contaminated seafood does not noticeably reduce toxicity. It remains stable in aqueous solutions for prolonged periods but rapidly decomposes in acidic or alkaline solutions. It has multiple analogues such as ostreocin-D, mascarenotoxin-A and -B. 0c459e9177

**Discovery and development of HIV-protease inhibitors** San Francisco and New York City. In this prospective, the discovery of small-molecule ligands, like protease inhibitors, that can modulate catalytic activities has an enormous therapeutic effect. They are highly effective against HIV and have, since the 1990s, been a key

component of anti-retroviral therapies for HIV/AIDS. Hence, inhibition of the HIV protease is one of the most important approaches for the therapeutic intervention in HIV infection and their development is regarded as major success of structure-based drug design. In 1985, HIV was identified as the causative agent of acquired immune deficiency syndrome (AIDS) and its complete genome. Many major physiological processes depend on regulation of proteolytic enzyme activity and there can be dramatic consequences when equilibrium between an enzyme and its substrates is disturbed 0c459e9177

Palytoxin palytoxin and is characterized by rhabdomyolysis and gastrointestinal problems. In addition to ciguatoxins, palytoxin could also be a causative agent of ciguatera. Palytoxin, PTX or PLTX is an intense vasoconstrictor, and is considered to be one of the most poisonous non-protein substances known, second only to maitotoxin in terms of toxicity in mice 0c459e9177

Denman Island was first inhabited by Indigenous peoples including the Pentlatch and Sliammon as evidenced by middens, gravesites, and oral history. The site most recently occupied by Pentlatch people named the island Punchlatt. In 1862 smallpox epidemic severely reduced its population and the survivors moved to join the K'ómoks people in nearby Comox. 0c459e9177 People are rarely exposed to palytoxin. Exposures have happened in people who have eaten... 0c459e9177

Cochlodinium polykrikoides C. polykrikoides has a wide geographic range, including North America, Central America, Western India, Southwestern Europe and Eastern Asia. Journal of Plankton Research. 21 Cochlodinium polykrikoides (or Margalefidinium polykrikoides) is a species of red tide producing marine dinoflagellates known for causing fish kills around the world, and well known for fish kills in marine waters of Southeast Asia. "Reactive oxygen species as causative agents in the ichthyotoxicity of the red tide dinoflagellate Cochlodinium polykrikoides". Single cells of this species are ovoidal in shape, 30-50µm in length and 25-30µm in width 0c459e9177

== History == 0c459e9177

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