

Umi Rohmatin 19.03.5.1.1.00019. Histopatologi Jaringan Mata Ikan Kerapu Cantang (*Epinephelus sp.*) Yang Diduga Terinfeksi *Viral Nervous Necrosis* Di Desa Labuhan Kabupaten Lamongan. Dibawah bimbingan **AB. Chandra. S.Si., M.Si**

ABSTRAK

Ikan kerapu cantang (*Epinephelus sp.*) menjadi salah satu komoditas unggulan yang banyak dikembangkan di Sentra Budidaya ikan kerapu Desa Labuhan Kecamatan Brondong Kabupaten Lamongan. Salah satu ancaman terbesar dalam kegiatan budidaya ikan kerapu cantang adalah serangan virus VNN dan penurunan kualitas air. Keberadaan virus VNN dan penurunan kualitas air dapat merugikan pembudidaya ikan kerapu cantang. Penelitian ini dilakukan bertujuan untuk deteksi awal ikan kerapu cantang yang diduga terinfeksi virus VNN dan memantau fluktuasi kualitas air. Penelitian ini dilaksanakan pada tanggal 14 Februari - 4 April 2023 di Desa Labuhan Kecamatan Brondong Kabupaten Lamongan. Metode yang digunakan untuk pengujian virus VNN yaitu dengan menggunakan analisa jaringan mata secara histopatologi dan *Polymerase Chain Reaction* (PCR). Hasil penelitian menunjukkan bahwa ikan kerapu cantang negatif virus VNN. Berdasarkan hasil pengukuran parameter kualitas air suhu kolam 1 dan kolam 2 berkisar antara 28,5-35,7°C, DO berkisar antara 3,5-15,2 mg/l, salinitas berkisar antara 23-30 ppt, dan pH berkisar antara 8-8,8.

Kata Kunci: Ikan Kerapu Cantang, Histopatologi, *Viral Nervous Necrosis*, *Polymerase Chain Reaction*

Umi Rohmatin. 19.03.5.1.1.00019. Histopatholgy Eye Tissue Of The Cantang Grouper (*Epinephelus sp.*) Suspected of Being Infected With *Viral Nervous Necrosis* in Labuhan Village Lamongan Regency. Under the guidance of **AB. Chandra. S.Si., M. Si**

ABSTRACT

Cantang grouper (*Epinephelus sp.*) is one of the leading commodities which is widely developed in Labuhan Village, Brondong District, Lamongan Regency. One of the biggest treats to cantang grouper aquaculture is the VNN virus attack. The presense of the VNN virus and decrease in wather quality can be detrimental to cantang grouper cultivators. This research was conducted with the aim for early detection of cantang grouper that was recently infected with the VNN virus and monitoring fluctuations in wather quality. This research was conducted on Februari 4- April 14 2023 in labuhan village brondong district lamongan regency. The method used test for the VNN is by using histopatological analysis of the eye tissue of cantang grouper and polymerase Chain Reaction (PCR). The results of the study showed that th cantang grouper wasnegative for the VNN virus. Results of measurements of water quality parameters: temperature in pool 1 and pond 2 ranged from 28.5-35.7°C, DO ranged from 3.5-15.2 mg/l, salinity ranged from 23-30 ppt, and pH ranged from 8-8.8.

Keywords: *Cantang Groupers, Histophatology, Viral Nervous Necrosis, Polymerase Chain Reaction*