Opisthorchiasis and Hypophyseal Thyroid System Abnormality: Actual Problem or Coincidence

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Letter to Editor

Dear Editor, the liver fuke infestation caused by Opisthorchis viverrini, infection is very common in tropical Southeast Asia. infection can cause chronic liver problem and can induced the carcinogenesis at hepatobiliary system. e long term chronic opisthorchiasis is proved as an important cause of the hepatobiliary cholangiocacinoma. patient cholangiocarcinoma usually has extremely severe disease and end up e high incidence of cholangiorcarcinoma in Indochina is believed to due to high incidence of opisthorchiasis. infection is related to consumption of raw f shžwhich is the common eating behavior of local people in Indochina. e contamination of the infective metacercariae in fresh water f sh is common in Indochina and if there is no good cooking before ingestion, the parasite will still exist and can cause infection to anyone who ingests it. At present, the attempt to control the opisthorchiasis becomes the important local public health policies. Nevertheless, the continuous attempt is still necessary since there is still no favorable outcome of control campaign. Sripa and Echaubard noted that "despite extensive public health prevention campaigns led by the government, the prevalence of Ov infection is still high. High infection rates result from cultural and ecological complexities where wet-rice agrarian habitats, centuries-old raw-food culture, and the parasite's complex biology combine to create an ideal transmission arena [2]."

In addition to hepatobiliary abnormality, there are also some reports on the extrahepatic disorder due to opisthorchiasis. e e ect on the neurological system is very interesting Focusing on the brain pathology due to opisthorchiasis, there is still no o dill report on the direct problem. Nevertheless, there are is an interesting report on other liver fuke. Ying et al. recently reported a case of fectopic parasitism due to Fasciola hepatica [3]. In that case, the larvae burrow through a human brain and mimic cerebral aneurysm was reported [3]. Nevertheless, there are some reports on the neuroendocrine organ and the interrelationship with opisthorchiasis. Some Russian reports noted that the chronic opisthorchiasis can induce the abnormalities of the hypophyseo-thyroid system [3-5]. ere is still no explanation for the observed relationship. Lepekhin et al. proposed that e imbalance of thyroid hormones activity is likely to be associated with hepatobiliary

dysfunction [3]." According to the report by Lepekhin et al., "the decrease of T3 and T4 in the presence of normal TTG level was found [3]." An important question is whether there is any direct e ect of opisthorchiasis on neuroendocrine organ. In Indochina, the high incidence of the thyroid dysfunction is also observable. It is an interesting question on the co-high-incidence of both opisthorchiasis and thyroid dysfunction. A systematic epidemiological study is required for dUiff clition of the problem. At the same time, there should be an in-depth study to assess the exact neuroendocrine gland pathology in opisthorchiasis. e main question is the concurrent high incidence of thyroid dysfunction and opisthorchiasis is only an accidental finding due to di erent pathological pathways or not. Finally, in addition, there is also the report from Russia on the neuro-psychic disturbancem Mf d