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studies about heavy metal concentrations in macroinvertebrates could make it possible to identify the areas most susceptible to contamination. for the sites analyzed in this review, larger concentrations of heavy metals such as the punta campeche port and la boca, pueblo nuevo, had high concentrations of arsenic in both sediments and benthic animals. thus, these can be considered major heavy metal pollution sources (ramrez-ayala et al. 2020). the presence of concentrations of heavy metals in shrimp ranging from 0.65 to 6.42 mg/kg (ramirez-ayala et al. 2017a) also contributed to these areas being considered major pollution sources. thus, if these shrimp populations are consumed, the consumers could suffer health problems (lamas et al. 2018). however, the findings of studies on these species should be evaluated with caution because they are very scarce, and a research gap was identified. the review showed that macroinvertebrates are important reservoir hosts of arthropods that carry pathogenic bacteria and parasites to human and livestock species (broders et al. 2002). although this is commonly accepted, few studies have assessed how heavy metals in such ecosystem components can affect these reservoirs and their diseases. a better understanding of the role of these organisms in the transfer of potentially pathogenic organisms could contribute to the reduction of the impact of diseases in

humans and animals. therefore, in this review, more studies on the role of macroinvertebrates in the dispersion and distribution of these pathogens were identified, as well as their potential as sentinel organisms.

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among the authors of the studies reviewed, it can be noticed that the main research focus has been on the mercury profile of crustaceans (shrimp). from these studies, mercury has generally shown higher concentrations in shrimp than in the other elements analyzed. the most toxic effect is caused by methylmercury, which accumulates in the body and can cause weight loss, paralysis, and convulsions, which can affect the behavior of shrimp larvae (ogunlatoye et al. 1995 , goodchild 1999). exposure to mercury in the aquatic environment can cause malformations and alterations in sexual characteristics, as well as reproductive and endocrine disorders in aquatic species (goodchild 1999). the population of shrimp in mexico is estimated at approximately 45 million tons (inapesca 2006). if shrimp constitute the main source of food for domestic consumption, millions of tons of this crustacean are consumed annually (vazquez-sauceda et al. 2019). in addition, the import and consumption of shrimp from other countries and commercialization of products, which could include contaminating pollutants as mentioned before, contribute to contamination of mexican shrimp (contreras-

espinosa et al. 2002 , medina-martinez et al. 2006). as the results of studies on the accumulation of toxic elements in shrimp populations suggest a high accumulation of pb and hg, these metals deserve particular attention. it is important to emphasize that the present study shows high concentrations of these metals in shrimp. this could indicate that there are people living in regions closer to the coastal areas who consume this species in a greater quantity. at least for the authors and the reviewers, it is only possible to make statements about the people studied in this review (contreras-espinosa et al. 2002 , medina-martinez et al. 2006 , contreras-espinosa et al. 2004 , tafuri-samaniego et al. 2003 , contreras-espinosa et al. 2010 , villaseñor-ochoa et al. 2015 , contreras-espinosa et al. 2020). 5ec8ef588b

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