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ABSTRACT: Canned tuna ($n = 240$), salmon ($n = 16$), and mackerel ($n = 16$) were analyzed for mercury and fatty acids. Average mercury levels were 188, 45, and 55 ppb, respectively, and below the FDA Action Level of 1000 ppb. "Light tuna in water" contained lower mercury ($\bar{x} = 54$ ppb) compared with "white/albacore tuna in water," which contained higher eicosapentaenoic acid/docosahexaenoic acid (EPA/DHA) $\bar{x} = 711$ mg/100 g wet tissue). Mercury residues in salmon ($\bar{x} = 45$ ppb) and mackerel ($\bar{x} = 55$ ppb) were lower than in tuna products, but the EPA/DHA levels were higher (salmon, $\bar{x} = 1623$ mg/100 g wet tissue; mackerel, $\bar{x} = 851$ mg/100 g wet tissue). Information from this study will help women of childbearing age to limit their intake of mercury while obtaining healthy fats from fish.

Keywords: mercury, salmon, mackerel, tuna, EPA, DHA, omega-3 fatty acids

Introduction





