**Mercury contamination in fish and scalp hair of the fishing community along river Swat, Pakistan.**

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Table S1. Different fish types found in river Swat

|  |  |  |  |
| --- | --- | --- | --- |
| Upstream Fish | Carnivorous | **Biological Name** | **Local Name** |
| Salmo trutta fario | Brown Trout |
| Glyptosternon reticulatum | Chak-warh |
| Oncorhynchus mykiss | Rainbow Trout |
| Omnivorous | Triplophysa naziri | Bretai |
| Triplophysa choprai | Bretai |
| Schizothorax plagiostomus | Swati/Khwayak |
| Downstream Fish | Carnivorous | Mastacembelus armatus | Maar-mahay |
| Channa punctatus | Kategayy |
| Channa gachua | Kategayy |
| Glyptothorax punjabensis | Sulemani, Gulabay |
| Glyptothorax stocki | Sulemani, Gulabay |
| Glyptothorax naziri | Sulemani, Gulabay |
| Glyptothorax cavia | Sulemani, Gulabay |
| Omnivorous | Schizothorax plagiostomus | Swati |
| Tacoma labiatus | Chunrh |
| Garra gotyla | Tora Deqa |
| Crossocheilus diplochilus | Spena Deqa |
| Schistora alepidota | Bretaii, Hindu-mahay |
| Schistora naziri | Bretaii, Hindu-mahay |
| Schistora prashari | Bretaii, Hindu-mahay |
| Herbivorous | Puntius conchonius | Poplet |
| Puntius sophore | Poplet |
| Puntius chola | Poplet |
| Carassius auratus | China mahay |
| Cyprinus carpio | Gulfaam |

Source: Fisheries Department, Government of Khyber Pakhtunkhwa, Pakistan.

Table S-2. Hg accumulation in human scalp hair based on frequency of consuming fish in up and downstream areas.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Fish eating Frequency** | **Regression Model results for carnivorous fish (upstream)** | **Fish eating Frequency** | **Regression Model results for Omnivorous fish (upstream)** | **Fish eating Frequency** | **Regression Model results for Omnivorous fish (downstream)** |
| Daily Basis | 3,246\*\*\* | Daily Basis | 1,345 | Daily | 889.2 |
|  | (982.5) |  | (3,191) |  | (952.7) |
| 2-3 times/Week | 368.0\*\*\* | 2-3 times/Week | 1,981\* | 2-3 times/week | 2,605\*\*\* |
|  | (93.33) |  | (1,124) |  | (714.5) |
| Seasonally | 1,675 | Seasonally | 802.9 | Constant | 1,474\*\* |
|  | (1,079) |  | (1,699) |  | (713.6) |
| Constant | 515.4\*\*\* | Constant | 2,734\*\*\* | Observations | 77 |
|  | (85.17) |  | (672.8) | R-squared | 0.011 |
| Observations | 77 | Observations | 77 |  |  |
| R-squared | 0.123 | R-squared | 0.056 |  |  |

Table S-3. Variation of Hg accumulation in human scalp hair with food habits

|  |  |
| --- | --- |
|  |  |
| VARIABLES | Model |
|  |  |
| Dry fruits (Occasional) | -2,293 |
|  | (2,541) |
| Dry fruits (1-2 / month) | -5,347\* |
|  | (2,810) |
| Dry fruits (1-2 / week) | -5,077\* |
|  | (2,808) |
| Vegetables (Occasional) | -2,128 |
|  | (1,900) |
| Vegetables (1-2 / month) | 277.9 |
|  | (828.5) |
| Leafy vegetables (1-2 / month) | -1,802 |
|  | (1,158) |
| Citrus fruits (Occasional) | -1,562 |
|  | (4,718) |
| Citrus fruits (1-2 / month) | -1,980 |
|  | (5,375) |
| Citrus fruits (1-2 / week) | -3,810 |
|  | (4,445) |
| Constant | 8,943\*\* |
|  | (3,843) |
|  |  |
| Observations | 77 |
| R-squared | 0.287 |