S2 Appendix. Independent variables stratified by data source and scale of ecological influence

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|  | **Data source** |
| **Scale of ecological influence** | **Questionnaires** | **Derived using geographic information systems (GIS)** |
| **Individual-level** | AgeSexCountry of birthEthnicityReligionHighest school level completedOccupationFarming – none, part-time, full-timeIf farmer, type(s) of animal(s)Relative altitudes of home and farmAvailability of soap & water at lunchWash hands with soap & water after lunchAvailability of soap & water at dinnerWash hands with soap & water after dinnerType of toilet at school or workAvailability of soap & water at school or workWash hands with soap & water after toilet at school or workSwimming, playing, or bathing in flood waterWalking in flood waterContact with freshwater – recreation, walking, washing clothes, washing dishesSighting rats or mice at homePhysical contact with rats or mice Sighting mongoose at homePhysical contact with mongooseBitten by ticks or fleasHeard of leptospirosis before this studyDiagnosed with leptospirosisContacts (family, friends, colleagues) diagnosed with leptospirosis |  |
| **Household-level** | Number of household membersHousehold incomeSource(s) of drinking waterMethod(s) used to treat drinking waterAvailability of tap water in houseSupply of government treated water to houseIndoor shower or tap for washingType of toilet at home (if any)Location of home toiletSharing home toilet with other householdsAvailability of soap & water at home toiletWash hands with soap & water after using home toiletHouse construction materialFloor construction materialFloor raised at least 30cm above ground Number of rooms in houseGarbage disposal methodStream or river near home (in community, or within 100m)Flooding at home Flooding of land around homePresence of animal species at homeGrow crops, fruits, vegetables at home | Distance to rivers or major creeksElevation above sea levelSlopeRoad densityRainfall (multiple measures including maximum, minimum, average)Temperature (multiple measures including maximum, minimum, average)Land useSoil type |
| **Community-level** | Community typeUrban rural classificationPresence of animal species in communityGrow crops, fruit, vegetables in community | Educational attainmentHouse constructionSources of income (subsistence, salaried)EthnicityWater supplyElectricityToiletsPopulation densityPopulation growthPoverty ratePoverty gapCommercial beef – numbers of animals and farmsCommercial dairy – numbers of animals and farmsSubsistence beef – numbers of animals and farmsSubsistence dairy – numbers of animals and farmsTotal cattle – numbers of animals and farmsPigs – numbers of animals and farmsGoats – numbers of animals and farmsHorses – numbers of animals and farmsSheep – numbers of animals and farmsPoultry – numbers of animals and farmsDuck – numbers of animals and farms |