

BMI report 2020

Water research in India - Developing water quality survey tool.

BMI Follow: Selda Edris

Advisor: Prof. Hadas Mamane

Introduction

In this research our goal is to develop a simple tool for understanding drinking water quality in rural areas, by creating a water quality survey (WQS) which will require from the participants to predict the technical quality of their water. Correlation will be investigating between their predictions and their actual water quality - chemical, physical and biological analysis.

Objectives of Survey

This AmriTAU WQS Tool is designed to answer five main questions:

1. How and where are participants collecting their drinking water?
2. What are participants doing to their water before they drink it?
3. What do participants think and feel about the quality of their water?

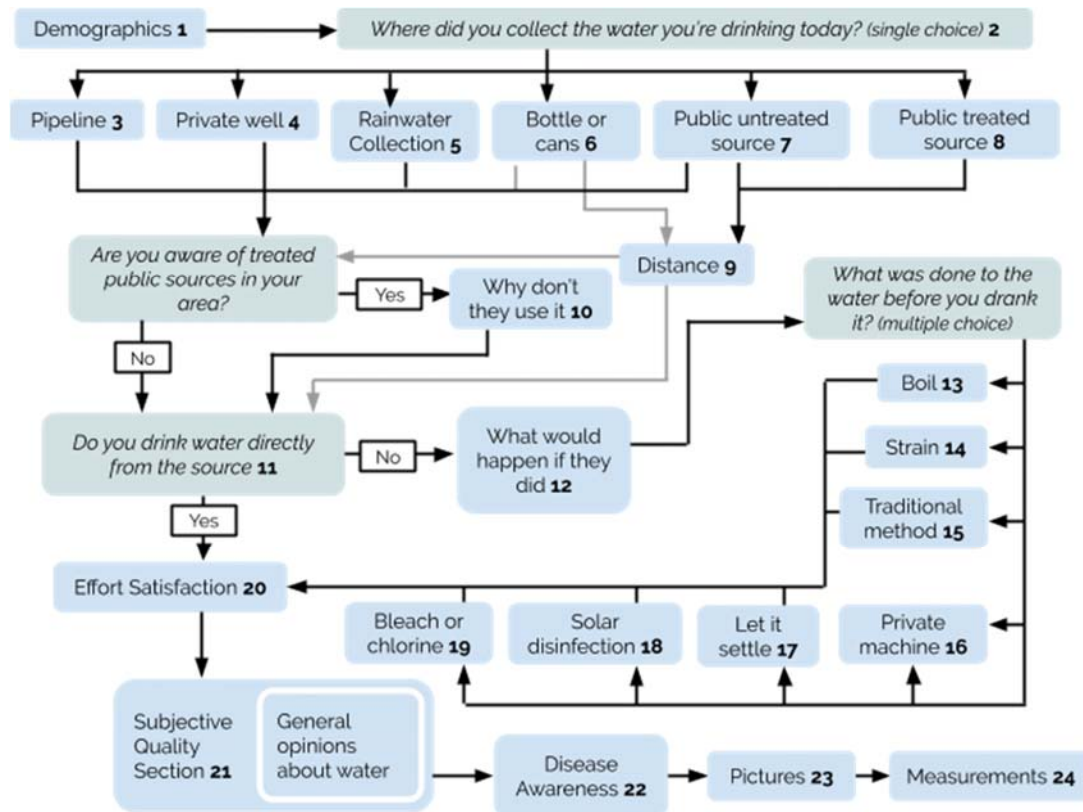
The questions are asked specifically about the water participants have available for drinking, and samples of this water will be taken for further analysis in laboratories. In this, the fourth objective

4. What is the technical quality of the water participants are drinking?
 5. Do participants answer to the questionnaire predict the technical quality of their water?
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Overview

Important questions for the structure of the survey are in green boxes, groups of questions are in blue. Participants have to move along black lines, whilst moving along grey lines is dependent on

previous answers. Numbers next to boxes indicate where further decision tree diagrams go into more detail.



Status

While developing a survey, it was tested in more than 50 households in different areas in Kerala, India. And after testing it and approving the last version of the survey, it was deployed in more than 100 households in rural areas including water quality analysis in laboratory. Finding correlations is needed to understand if the goal is achieved or if any addition investigations and developing are needed.