

Literature review on food safety and hygienic management in urban food outlets

Preparation of the sampling plan and the questionnaire

Visit the modern food outlets and collection of the data

Applying the Fuzzy AHP method to provide weightage to the identified factors affecting the profound gap

Discussion of the results and implications

Figure 1 - research flow chart

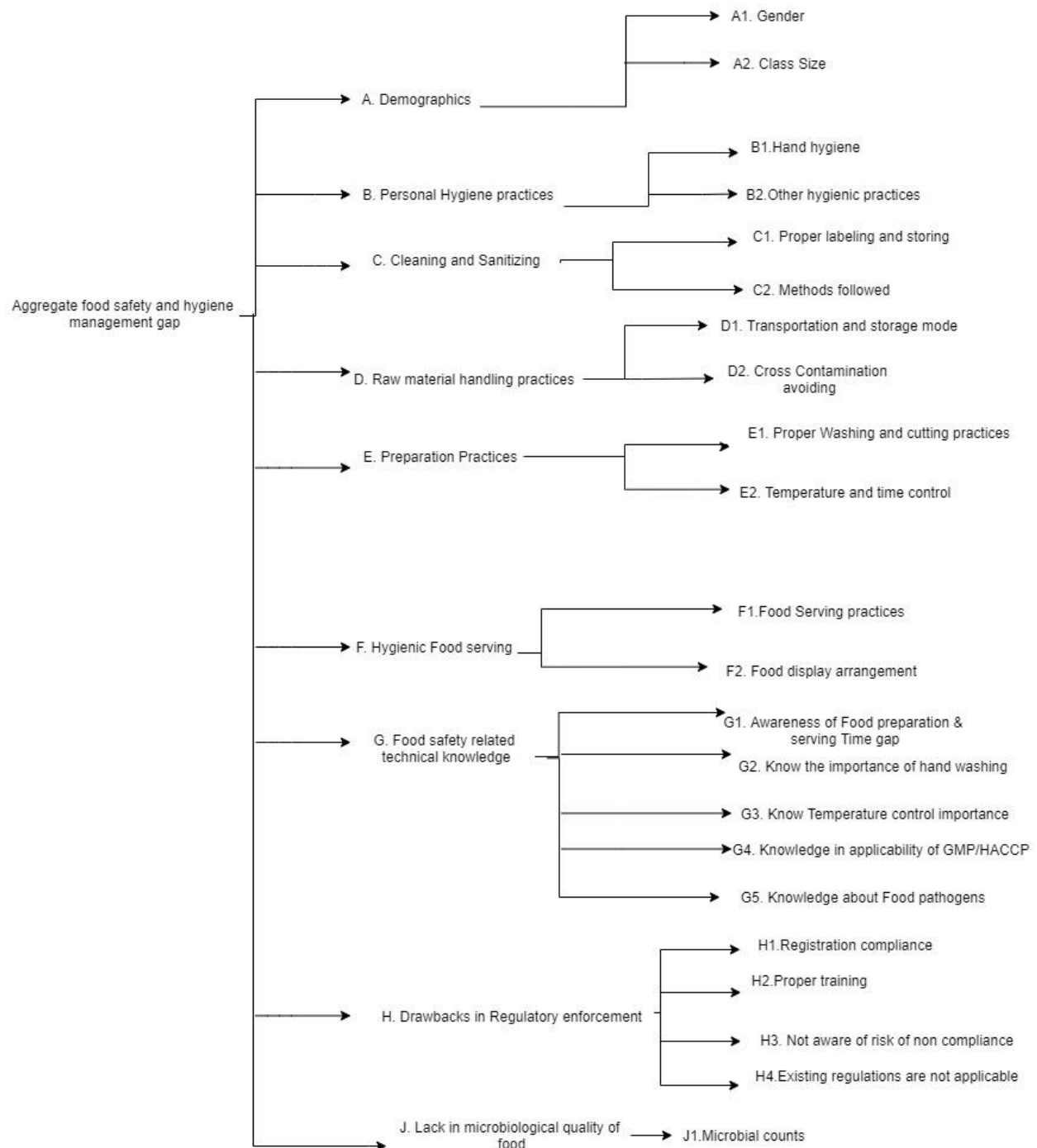


Figure 2 - Hierarchical structure

Steps in Fuzzy AHP application

1. Purpose definition – Identify the major contributor factors for the profound gap in food safety and hygienic management in modern food outlets.
2. Finalize the factors and sub contributor factors which have uncertainty and subjectivity in judgement
3. Finalize the hierarchical structure
4. Construct the fuzzy matrix (with the help of triangular fuzzy number and based on AHP pair wise comparison matrix based on the selected linguistic scale judgement- Back the judgement by using descriptive analysis to summarize the data collected from the social survey
5. Calculation of weights and ranking focus areas using Chang's Extent analysis method.

Main Areas need consultancy

1. Suitability of AHP or AHP fuzzy method
2. Best way to create a descriptive analysis for the data collected from the questionnaire?
3. Number of factors – will it make the analysis is complex or is it manageable?
4. Selection of the linguistic scale – 1-9 ,1-7 Or 1-5?
5. Can Quantitative criteria be included in this method?
6. Any software that can be used in ?

	Demograp hics	Perso nal Hygie nic practi ces	Hygie nic buildi ng desig n and other	Raw materi al handli ng practi ces	Preparat ion practice s	Food Servin g practi ces	Food related technic al knowle dge	Drawback s in regulator y enforcem ents	Microbiolo gical quality of food
Demograp hics									
Personal Hygienic practices									

Raw material handling practices									
Preparation practices									
Food serving practices									
Food safety related technical knowledge									
Drawbacks in regulatory enforcements									
Microbiological quality of food									

<https://www.youtube.com/watch?v=5k3Wz1AfVWs>

<https://www.youtube.com/watch?v=ZqaVuZ22mWs>