

## **INTERNSHIP REPORT**

on

A Training for Conducting Survey on Health System and Population Studies: a 360°- Approach at icddr, b

Submitted to

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Date of Submission:

# LETTER OF TRANSMITTAL

Date: 26.10.2021

The Head, Nutrition and Food Engineering (NFE) Daffodil International University.

Subject: Submission of Internship Report.

Dear Sir,

I am very pleased to submit my internship report, requirement for the completion of the B.Sc. in Nutrition and Food Engineering. This internship report based on my work "A Training for Conducting Survey on Health System and Population Studies: a 360°- Approach at icddr, b". I have completed my internship in Health system and population study division, icddr, b for two months under the supervision of Dr, Sabrina Rasheed, Associate Scientists. During this period, I learned about the various types and activities of research and how a research is conducted.

I would like to pray and hope that, if you can accept my internship report and provide me with your valuable information and judgement. It would be a great pleasure if you find this report useful and informative.

Erra AKter Sema

**Era Akter Sema** ID: 172-34-652 Nutrition and Food Engineering Daffodil International University

## LETTER OF APPROVAL

I am pleased to certify that the project report on "A Training for Conducting Survey on Health System and Population Studies: a 360°- Approach at icddr, b" prepared by Era Akter Sema bearing ID: 172-34-652, of the Department of Nutrition and Food Engineering, Daffodil International University has been approved for presentation and defense/viva-voice.

I am pleased to hereby certify that the data and finding presented in the research report are the authentic work of **Era Akter Sema** bearing **ID: 172-34-652**, I strongly recommend the internship report to be presented by **Era Akter Sema** for further academic recommendations and defense/viva voce. **Era Akter Sema** bears a strong moral character and a very pleasant personality. It has indeed a great pleasure working with her. I wish her all success in life.



Dr. Amir Ahmed Adjutant Faculty Department of Nutrition & Food Engineering Daffodil International University

## LETTER OF RECOMMENDATION

This is to certify that the project report entitled "A Training for Conducting Survey on Health System and Population Studies: a 360°- Approach at icddr, b" which is submitted for assessment to the examination committee by Era Akter Sema bearing ID: 172-34-652, Department of Nutrition and Food Engineering (NFE), Daffodil International University (DIU).

I am pleased to declare that this report is entirely written by the author and all the related works have been conducted by the intern under my strong supervision and observation. This is a piece of original work and has not been submitted or published anywhere for any other purpose. I strongly recommend the approval of the report by the authority and I also pursue a positive and fair evaluation of the work.

I wish her all the success in life.

Yours sincerely



Dr. Amir Ahmed	Ms. Fouzia Akter
Adjutant Faculty	Head
Department of Nutrition &	Department of Nutrition &
Food Engineering	Food Engineering
Daffodil International University	Daffodil International University

## ACKNOWLEDGEMENT

At first, my gratitude's and thanks go to the Almighty Allah, the most merciful and the kind who has blessed me with the ability to make this report successful. I like to express my gratitude to the Honorable Vice Chancellor of Daffodil International University (DIU) for giving me this opportunity to pursue my B. Sc Degree in Nutrition and Food (NFE) Department.

My gratitude and thanks to Professor **Dr. Ahmed Ismail Mustafa**, the Honorable Dean, Professor **Dr. Bellal Hossain** the Associate Dean, Faculty of Allied Health Sciences (FAHS), and **Ms. Fouzia Akter** the Head, Department of Nutrition and Food Engineering (NFE), for their cooperation to assign and accept the internship report.

My thanks go to **Dr. Amir Ahmed**, Adjutant Faculty of Department of Nutrition and Food Engineering (NFE) for his constructive cooperation, effortless guidance throughout my internship this helped me to complete my work successfully.

My gratitude goes to **Dr. Sabrina Rashid**, Associate scientists, icddr, b for all the meaningful and goal-oriented learnings she has delivered with great passion and sincerity throughout my internship at icddr, b.

I am also thankful to all my great teacher's Assistant professor **Dr. Nizam Uddin**, Lecturer **Humyra Nowshin**, Lecturer **Harun-Ur-Rashid**, Lecturer **Jewel Rana**, Senior Lecturer **Nasima Akter Mukta**, Senior Lecturer **Iffat Ara Jahan**, and my batch advisor **Tasmia Tasnim**, for their countless inspiration and encouragement during my study life.

My deep thanks to our Coordination officer **Mr. Emran Hossain**, Assistant technical officer **Mr. Reaz Mahmud**. My thanks go to the entire NFE Department of Daffodil International University for arranging this research opportunity and facilitating the work.

# **DEDICATION**

This research work is dedicated to my beloved father **Md. Ali Ashraf** and mother **Mohinur Begum** who gave me the support and courage to fulfil this work successfully.

# A Training for Conducting Survey on Health System and Population Studies: a 360° -Approach at

icddr, b

Organized by Health System and Population Studies Division of icddr, b

Mohakhali

Dhaka- 1212, Bangladesh



Course Advisor: Dr. Sabrina Rasheed, Associated Scientists; HSPS division.

HSPS, icddr, b:

- 1. Morzina Akter, Assistant Research Investigator.
- 2. Md Salim Ahamed, Assistant Field Researcher





Era Akter Sema

for completion of Field Experience Programme from 08 June, 2021 -to- 15 August, 2021

> Senior Manager Technical Training Unit



International Centre for Diarrhoeal Disease Research, Bangladesh GPO Box 128, Dhaka 1000, Bangladesh

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# **ABBREVIATION**

ICDDRB	International center for Diarrhoeal disease research, Bangladesh
EN	Eternal nutrition
NCD	Non-communicable disease
DFID	Department of International Development

#### 1. Introduction

Nutritional status of child is a sensitive indicator of a country's health and economic condition. It is caused by the impact of demographic, socioeconomic, environmental and health-related factors on nutritional status among children in Bangladesh. Child age, mother's education, father's education, father's occupation, family wealth index was discovered to be the most important contributing factors to malnutrition. It was found that pregnant women who are underweight have a higher risk of parental mortality and having babies with low birth weight. Underweight of women and children was very common in both the rural and urban areas of Bangladesh.

Icddr, b, The International Central for Diarrhoeal Disease Research was widely Known in Bangladesh, for their worldwide health research organization. They are attempting to reduce malnutrition and death rates in Bangladesh. They also provide low cost therapeutic diet to improve the nutrition status of the patient. As, I was interested in child health and researches I think this is the best option to complete my internship from this institution to gain knowledge about the research and how it is done. In my second semester, I had a chance for a hospital visit at the icddr, b there I learn abut the nutritional status of the child, underweight, diet, supplementary feeding, complementary feeding etc. and I realized I need to learn more about that for my future study. This why, I decided to complete my internship from icddr, b to know more about the Researches.

#### 2. Origin of the Report

The International Centre for Diarrhoeal Disease Research, or ICDDR, B, was widely known as the International Centre for Diarrhoeal Disease Research. It is a Dhaka, Bangladesh-based worldwide health research organization. It is investigating and interfering in order to save existence. This important issue is being addressed by the ICDDR, B, which is attempting to reduce malnutrition and death rates in Bangladesh. In Bangladesh, the creation of an oral rehydration solution for diarrheal patients has reduced mortality by more than half. ICDDR, B also works to treat acute malnutrition by offering patients with a variety of low-cost therapeutic diets to help them improve their nutritional condition. ICDDR, B, in collaboration with scholarly and research foundations throughout the world, performs exploration, preparation, and augmentation exercises, as well as program-based exercises, to develop and distribute information for global lifesaving arrangements. ICDDR, B has been performing remarkable experiments and encouraging the use of experience-based interference for over five decades. According to Thomson Reuters Web of Science, the ICDDR, B a major research body in the Global South, released 18 percent of Bangladesh's reporting.

National and international staff work in various departments at the ICDDR, B including consultants, nutritionists, epidemiologists, demographers, public health researchers, experiment laboratory researchers, community-based and behavioral scientists, computer experts, and specialists in the emergence and reemergence of infectious diseases, among others. Various organizations provide donations so that ICDDR, B can carry out their duties correctly. It is supported by fifty-five contributing countries and organizations. A professional management team leads ICDDR, B.

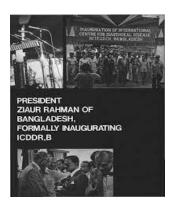


## 1.2 History Of ICDDR, B

The SEATO Cholera Research Laboratory, established in 1960, served as the cornerstone for the ICDDR, B. Because of a lack of assets, when Bangladesh became independent in 1971, operations were pushed back. As a result, Bangladesh and USAID agreed to a specific agreement for a direct asset stream to the organization. There were numerous investigation accomplishments until 1978, including ORS, Patho-Physiology of Shigellosis, Rotavirus, inspirational family arranging program, and so on. In 1978, a proposal by a worldwide gathering of researchers was advanced to elevate the association to a worldwide exploration location. The association was established in its current form by a presidential proclamation that was later recognized by parliament in 1979.

our researchers and doctors have played critical roles in international humanitarian responses, particularly in the prevention and control of infectious disease outbreaks. Our personnel have aided several relief initiatives in Asia, the Middle East, the Caribbean, and Sub-Saharan Africa during the last 30 years.

Figure 1.1: Ziaur Rahman inaugurating icddr, b



## 1.3 Awards and Recognition

In 2017, ICDDR, B was awarded the Conrad N. Hilton Humanitarian Reward, which included a \$2 million cash prize, in appreciation of the foundation's innovative approach to addressing global medical challenges affecting the world's most devastated networks (Center Foundation, 2017). In 1971, while working in Calcutta, Dr. Dilip Mahalanabis made a strong commitment to oral rehydration treatment, and in the 1990s, he filled in as Director of Clinical Research at icddr, b. The Bill and Melinda Gates Foundation awarded icddr, b the major Gates Award for Global Health in 2001. Drs. Norbert Hirschhorn, Nathaniel Pierce, Dilip Mahalanabis, and David Nalin were awarded the main Pollin Prize for Pediatric Research in 2002 for their contributions to the development and implementation of oral rehydration therapy. Drs. Mahalanabis, Richard A. Money, David Nalin, and Stanley Schultz were jointly awarded the Prince Mahidol Award for general wellbeing in 2006 for their work in oral rehydration treatment. The Alliance for the Prudent Use of Antibiotics awarded icddr, b the Leadership Award in 2007.

#### Figure: 1.2: Achievement award



Figure 1.3: Prize ceremony



# **1.4 Achievements**

1	Rehydration solution of oral
2	Experimenting vaccine
3	Domestic violence Regulations
4	Zinc for Diarrhea
5	TTV (Tetanus Toxoid Vaccine) for mothers
6	Solutions of Family Planning
7	Rice Based ORS
8	Launched Cholera Vaccine
9	Opens 1st First Tuberculosis laboratory
10	Effects of Arsenic on Human Health

# 1.5 Mission, Vision and Goals

Goal	Mission and Vision
1	To Maintained Research Strategy
2	Invest in Research and Field Sites
3	To Ensure Financial Sustainability
4	Increase the Research Evidence
5	Improve Field sites and Tools
6	Invest our people in research work

# 1.6 Funding's

1	The Global fund to fight AIDS, Tuberculosis and Malaria
2	National Institute of Health (NIH), USA
3	Commission of European Communities
4	Government of the Peoples Republic of Bangladesh
5	Swedish International Development Cooperation Agency (SIDA)
6	Bill and Melinda Gates Foundation, USA
7	UKAID: Department for International Development (DFID)
8	Centres for Disease Control and Prevention

## **1.7 Health System and Population Studies Division (HSPSD)**

In the region, HSPS divisions have specific expertise in areas such as public-health funding, urban health, gender-related topics, new automation, execution research, statistic observation, systematic reviews, and boosting the national health program's economic development.

Programs of Research are:

- 1. Universal Health Coverage.
- 2. Non-communicable Disease (NCD).
- 3. Population study and Risk factors.
- 4. Gender Rights.

## **1.8 Field Sites**

In Dhaka, we also have two urban field sites: Kamalapur and Mirpur. These sites have been used to collect crucial data on urban poor health and to test treatments to increase access to health care. As the number of Bangladeshi individuals living in cities grows, it is critical to understand urban health. The economics and pathology of different infectious diseases, as well as vaccination research and other community-based therapies, have all been studied. With a population of 140,000 people, Kamalapur is a heavily populated area of informal settlements. Pneumonia, shigellosis, influenza, and dengue fever have all been studied on the site. It has also served as the foundation for research into urban health systems, including how to best offer health care, set up referral systems, and fund health-care initiatives.



Figure: 1.4: Field work

#### **2.1 General Objectives**

As a last year student of Nutrition and food Engineering Department, I need to complete the internship for my graduation. As I have an interest in research sector, I want to gather knowledge by working in Health System and Population Studies Division in International Research center for Diarrheoal Disease Research, Bangladesh. Now, I like to share the knowledge that I have learnt from the 2 months of internship.

## **2.2 Specific Objectives**

- 1. Knowing about the activities of HSPSD.
- 2. How to develop a research.
- 3. How to do a literature review.
- 4. Get to know about the different division of researches.

5. Get to Know more about the Data analysis, Data collection and qualitative and quantitative research.

#### **3.1 Literature Review**

(Khan and Raza 2014)The main of this research is to find out the nutritional status of the school aged children by measuring the weight for age, height for age and weight for height in Dhaka city. Malnutrition is one of the biggest problems in Bangladesh and large group of children are suffering from malnutrition due to insufficient food and also, they are suffering from calcium, vit A, Vit C deficiency. As Children are the most vulnerable group and they are transition phase of their life so studies are needed on this sector. It is seen that nutritional status can be differentiated by the wealth status of the family.

(Tabassum 2019)In this study it is seen that diet quality is very much important in children and it is needed for better growth and better nutrition. If the children had better diet quality than he can fight against any kind of disease and had better immune systems, better health and mental development. If the quality of diet is poor, then children can suffer from various disease and can decline their physical and mental development. Maternal education is very important and an educated mother take care of their child very well. Children should consume diet high in vegetables and fruits rather than processed food. Diet quality can be effect by dietary pattern, socio-economic status, parent's role, parent's education etc. Mother have an important role on children diet quality because it is seen that if mother give time and care to their children than children have a better nutritional status or better health.

(Rahman and Biswas 2009)Protein energy malnutrition is a major problem in Bangladesh because it effects the physical and mental development of children. It is caused due to various reasons like poor food quality, insufficient food intake, standard of living, food insecurity, insufficient food intake. As a result of overcrowding, poverty, food insecurity, disease, insufficient food malnutrition is seen. It is main causes of mortality and morbidity. The children under 5 years of age are suffering from malnutrition. It is found that if the children are not getting adequate food than they can suffer from chronic illness.

**Table 3.1:** Nutritional status

Author/year	Purpose/ aim	Design	Sample Size	Dependent variables	Findings
(Mitra et al.	To define the	Pre-test	5258	Undernutrition,	It is found that
2018)	overnutrition in			overnutrition,	due to
(Mitra et al.	Bangladesh. As			Diet quality,	modernization
2018)	Undernutrition			transition of	overnutrition is
	prevalent in			Diet.	increasing day
	country it is				by day due to the
	seen that				consumption of
	overnutrition				processed food.
	are also				It is also related
	increasing due				with the socio-
	to transition of				economic,
	diet.				demographic,
					lifestyles.

Table 3.2:	Undernutrition	in rural areas
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Author/year	Purpose/aim	Design	Sample	Dependent Variables	Findings
(Monoarul Haque et al. 2014)	The main aim of this study explores the nutritional status of rural population in Bangladesh.	Pre-test	200	Diet Quality, Undernutrition, stunting, wasting.	47% have normal nutritional status, 30% are overweight, 15% are obese and 8% are suffering from underweight.

Author/year	Purpose/aim	Design	Sample	Dependent Variables	Findings
(Prasad	Malnutrition	Pre-test	80	Economy,	22.5% were
1949)	affects the			Nutritional	moderate
	child			status,	malnutrition,
	physical and			underweight.	72.5% were
	cognitive				normal. Socio
	growth and				economic is
	also it				also a reason
	impacts the				of
	economy of a				undernutrition.
	country. To				Proper
	Find out the				measure
	nutritional				should take to
	status of rural				minimize the
	and urban				undernutrition.
	children.				

 Table 3.3: Malnutrition affects economy

 Table 3.4: Mother Role

Author/year	Purpose/aim	Design	sample	Dependent Variables	Findings
(Patrick and	Food are the	Pre and	456	Food	Children food
Nicklas 2005)	essential	Post test		consumption,	consumption are
	nutrient for			family	affected by
	health and the			preferences,	family
	children			Family	environment as
	consumption of			environment.	they play the
	food are also				main role on
	affected by				children eating
	different				behavior and
	factors. To find				dietary pattern.
	out the factors				Mother also play
	related with				important role as
	children food				they have take
	consumption.				care of the
					child's food
					consumption

Author/year	Purpose/aim	Design	Sample size	Dependent Variables	Findings
(Rizhal	To find out the	Pre-test	210	obesity,	24.3% were
Ristanto, Siti	nutritional			undernutrition,	moderately
Zubaidah,	status and			Diet quality	stunting. The
Muhamad	dietary pattern				prevalence of
Amin 2015)	among the				thinness,
	children in				overweight and
	Dhaka city.				obese among the
					children are 22%,
					11.9% and 4.8%.

Table: 3.5: Nutritional status in Dhaka city

#### **4.1 Internship Class**

The internship was done by the Health System and Population Studies Division (HSPSD), by the supervision of Dr. Sabrina Rasheed, Associate Scientists, HSPS Division. The internship was completed through online because of the pandemic situation as they did not allow to go offline. My task is to do the literature review related with the (Children food consumption, Dietary pattern, mother education, nutritional status, Malnutrition of under 5-year age children). I have completed my internship in two months. From the internship, I learn about the basic research, how to do a literature review, how to build up a research paper.

#### Figure 4.1: Training



Figure 4.2: Teacher discussing with the students



## 5.1 A review of Basic Research, Qualitative and Quantitative Research

#### **Basic Research**

Basic research, also known as pure research or fundamental research, is a sort of scientific investigation aimed at refining scientific ideas in order to fully understand and anticipate natural or other events.

The purpose of fundamental research is to figure out how new molecules and cells work, as well as unusual phenomena and processes that aren't well understood.

#### **Purposes:**

- 1. Obtaining information and/or Discovering, uncovering, and investigating are examples of exploratory words. Gathering information, describing, and summarizing.
- 2. Theoretical testing Explanatory: for example, determining and comprehending causal relationships. Predictive: for example, predicting what will happen in different settings.

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Figure: 4.3: Two main types of research

Figure: 4.4: Types of research

## **Qualitative Research:**

As a humanistic or idealistic method, qualitative research focuses on understanding a study query. People's views, experiences, attitudes, behavior, and interactions are studied using qualitative methods. It generates data that isn't numerical.

Qualitative research is a method that focuses on people's experiences, behaviors, and perspectives. The qualitative researcher main purpose is to address 'how' and 'why' by offering detailed insight and understanding that quantitative approaches are unable to provide.

## **Purposes:**

1. We examine the opinions, motivations, and drivers behind people's behavior and purchasing habits in qualitative research, whether it's a focus group, in-depth interview (individual interview), or ethnographic project.

#### Figure 4.5: Qualitative purpose statement

## Writing a Good Qualitative Purpose Statement

What it includes:

- Single sentence
- "The purpose of this study . . ."
- Central phenomena
- Qualitative words (e.g. explore, understand, discover
- Participants
- Research site

#### Figure 4.6: Qualitative study

# Purpose of Qualitative study:

There are 5 purposes for research

- Identification when little is known about area/phenomena
- **Description** describing dimensions, variations, meaning, importance of the phenomena
- Exploration new topic/phenomena being investigated
- Explanation look for how/why phenomena exists
- The main purpose of qualitative research is to describe, understand, connect or relate **NOT** predict or manipulate.

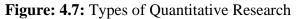
## **Quantative Research:**

An overview of quantitative research. The process of collecting and interpreting numerical data is known as quantitative research. It can be used to look for patterns and averages, make predictions, test causal linkages, and extrapolate results to larger groups.

## **Purpose:**

Quantitative research aims to gain a better understanding of the social world through data collection. Quantitative methods are used by researchers to observe conditions or events that have an impact on people. Quantitative research yields objective data that can be expressed effectively using statistics and numbers.







#### Figure: 4.8: Quantative Research method

#### **6.1 Learning Outcome:**

Learning outcome from my internship class:

- 1. To do a literature review.
- 2. Information collection.
- 3. Problem solving related with topic.
- 4. Determinants and factors related with topic.
- 5. Time management.
- 6. Reference and citation adding.
- 7. Microsoft word uses.
- 8. Skills in writing Project.

#### **6.2 Problems or Challenges:**

The problem I face on my internship that as it is totally new to me so at first, I found difficulties and it is hard to work hours on online to find information and it was very challenging. It was very difficult to maintain or to keep patience at that time. As the report are done by online research so there might be some error or mistakes. It was also very difficult to type for hours. But I can say that internship provides a new learning and it could be a great impact on my future.

#### **6.3 Conclusion:**

This internship programme is a great opportunity for me as I learn many new things about researches and it also provides a real-life understanding. This programmes had a great impact on my future career. Research is very much important in our life because through the research we can found the risk factors, determinants of a problem and can solve the problem by analyzing, collecting data or information.

From this internship, I learn many things about the research like how to do a literature review, to find factors and determinants related with the topic, how to analyze or design a project.

I am very thankful to Dr. Sabrina Rasheed to supervise me with great knowledge and new things. I am also very grateful to all the staff and management of icddr, b to keep me under careful guidance.

## **Recommendation:**

Because of the covid 19 I done my internship at online as they did not allow to go offline. From this internship, I learn my new things from my supervisor and I think it will be very helpful for my future. My supervisor helps me very much in terms of any problem.

I think it can be very helpful for me if I can get the opportunity to go offline but I am satisfied with the online internship. It is a great opportunity for me to do an internship on icddr, b because it is well known for its research.

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