

UNIVERSITY OF THE PHILIPPINES CEBU College of Social Sciences High School Program



Creative Investigation Student Congress 2022

31 May & 01 June

Book of Abstracts

Theme:

Fostering Research Collaboration in the New Normal

Creative Investigation Student Congress 2022

31 May and 01 June 2022

via Zoom and FB live at https://www.facebook.com/CICongress2022

Theme: Fostering Research Collaboration in the New Normal

Program

Day 1	May 31, 2022 (Tuesday)		
Morning Sessio	n		
8:30- 9:00 Zoom Meeting: https://up- edu.zoom.us/j/9 6374926240 Meeting ID: 963 7492 6240 Passcode: CIDay1AM	Opening Program - Opening Prayer - Pambansang Awit - Welcome Remarks		
9:01-9:45	Plenary 1: Experiencing research (and loving it)		
	Speaker: Mary Joyce L. Flores, Ph.D. Project Leader, CENVI		
9:46- 10:00	Open Forum		
10:01-10:15	Plenary 2: Assessment of Public Health Emergency Preparedness in Barangay Lahug		
	Speakers: Cañete, Alexandra Nicole C., University of the Philippines High School Cebu (2021) Gadia, Jeramae B., University of the Philippines High School Cebu (2021)		
10:16-10:20	Open Forum		
10:21-10:35	Plenary 3: COVID-19 Mortality Rates Worse in Poor Populations		
	Speakers: Canonigo, Rafaela, University of the Philippines High School Cebu (2022) Batobalonos, Louie, University of the Philippines High School Cebu (2022)		
10:36-10:40 10:41-10:55	Open Forum Plenary 4: Digital Carbon Footprint Accumulated by High School Students' Mobile Devices in Online Learning		
	Speakers: Lapaz, Jermel B., University of the Philippines High School Cebu (2022) Rosas, Rhea Grace D., University of the Philippines High School Cebu (2022)		
10:55-11:00	Open Forum		
11:00-12:00	Digital Poster Viewing https://www.facebook.com/CICongress2022		
	Host/ Moderator: Dr. Aurelio P. Vilbar Faculty, UP High School Cebu		

12:00-1:00

Lunch Break

Afternoon Session

1:00-2:00

Parallel Session 1

Moderator: Prof. Kim P. Bondoc

Faculty, UP High School Cebu

Zoom Meeting: https://upedu.zoom.us/j/9 9445770363

Cornstarch with Typha Angustifolia (Narrow-Leaf Cattail) Fiber as Potential Material for **Bioplastic Seedling Cups**

Meeting ID:

Speakers: Ando, Rea M., Babag National High School Silawan, Hearth B., Babag National High School

994 4577 0363

Sebial, Shanley F., Babag National High School Cabrera, Beatrice B., Babag National High School Ruiz, Jem Kirsten P., Babag National High School Mante, Charles A., Babag National High School

Passcode: CIDay1PMA

Incidence of Canine Parvovirus Among Household Dogs in Cebu City

Speakers: Binatero, Sylwyn A., University of the Philippines High School Cebu Constantino, Immanuel, University of the Philippines High School Cebu

"Fresh Air from Less Fare": Correlation of the Air Quality and Road Traffic in Metro Cebu **During the Period of Remote Work**

Speakers: Dee, Francis Philippe S., University of the Philippines High School Cebu Jabagat, Grazel Nina A., University of the Philippines High School Cebu

1:00-2:00

Parallel Session 2

Moderator: Prof. Noe M. Santillan

Faculty, UP High School Cebu

Zoom Meeting: https://upedu.zoom.us/j/9 3336828688

The Knowledge, Attitude, and Practices on Biodmedical Waste Management Among Public and Private Hospital Staff in Palo and Tacloban

Meeting ID: 933 3682 8688

Passcode: CIDay1PMB

Chua, Robina M., Bethel International School Jadloc Jedidiah Shawn P., Bethel International School

Speakers: Casillano, Kim Trisha S., Bethel International School

Pfleider Edwin III L., Bethel International School

Community Readiness of Barangay Lahug Residents on Single Use Plastic Ban

Speakers: Sanchez, Julianne April A., University of the Philippines High School Cebu Savilla, Shan Uhwee D., University of the Philippines High School Cebu Maralang, Lebron Y., University of the Philippines High School Cebu

Preliminary Investigation of Household Electric Consumption by Students due to Remote Learning

Speakers: Codera, Terience Kyle P., University of the Philippines High School Cebu Hirano, Ukimasa Hirano J., University of the Philippines High School Cebu

2:01-2:10

Break

2:11-3:11 Parallel Session 3

Moderator: **Prof. Edwin B. Estrera**Faculty, UP High School Cebu

Zoom Meeting https://upedu.zoom.us/j/9 5803871156

Impact of Online Cross-Age Tutoring on the Tutees' Mathematics Skills during Pandemic

Speakers: Batiancila, Jeanne Deanne J., Don Carlos A. Gothong Memorial National High School Calderon, Reyroucellin Joy, Don Carlos A. Gothong Memorial National High School Dijos, Dianne, Don Carlos A. Gothong Memorial National High School

Meeting ID: 958 0387 1156

Note-Taking Media and Language Proficiency in Relation to Listening Skills

Passcode: CIDay1PMC

Speakers: Vanzuela, Chariz An, University of the Philippines High School Cebu
Ongcoy, Angel Mharlize C., University of the Philippines High School Cebu
Cuizon, Sam S., University of the Philippines High School Cebu

FILIPIKNOW: Offline Interactive Gaming of Philippine Physical Geography

Speakers: Amora, Ernest Yves L., Science and Technology Education Center
Cañete, Kyla Nicole, Science and Technology Education Center
Castillas, Rosbell P., Science and Technology Education Center
Centillas, Renielynn C., Science and Technology Education Center
Tambis, Ghudz Ernest A., Science and Technology Education Center
Tigley, Thyatera Alexis M., Science and Technology Education Center

Parallel Session 4

Pandemic

Moderator: **Prof. Noe M. Santillan**Faculty, UP High School Cebu

Zoom Meeting:

Dietary Habits and Nutritional Status of College Students in Cebu City During the COVID-19

https://upedu.zoom.us/j/9 7976943824

Speakers: **Degulacion, Beverly A.,** University of the Philippines High School Cebu **Taytay, Ann Rovin Mile P.,** University of the Philippines High School Cebu

Meeting ID: 979 7694 3824

Perceived Effects of Online Learning Towards Students' Sleep Health

Passcode: CIDay1PMD

Speakers: Cartuciano, Justin Clyde A., University of the Philippines High School Cebu Montaño, Erl John R., University of the Philippines High School Cebu

COVID-19 Vaccine: Acceptance and Hesitancy Among Senior HIgh School Students in a University

Speakers: Tabornal, M.A., University of Southern Philippines Foundation

Dela Torre, S., University of Southern Philippines Foundation Turtor, K.C., University of Southern Philippines Foundation Revales, C.Z., University of Southern Philippines Foundation Paradero, J., University of Southern Philippines Foundation Lequigan, J.C., University of Southern Philippines Foundation Lopez, H.K., University of Southern Philippines Foundation

3:12- 3:22

Break

3:23-4:23 Parallel Session 5

Moderator: Prof. Ericka Mae Encabo

Faculty, UP High School Cebu

Zoom Meeting: Segue MediRecords

https://upedu.zoom.us/j/9 1972672550 Speakers: Kho, C.V., Science and Technology Education Center-SHS
Augusto, J. R., Science and Technology Education Center -SHS
Amora, E. J., Science and Technology Education Center-SHS

Alegado, F. E., Science and Technology Education Center-SHS Cinco, J. M., Science and Technology Education Center-SHS

Meeting ID: 919 7267 2550

Passcode: CIDay1PME Addressing COVID-19 Hesitancy and Misconceptions in Ibabao, Cordova Through Chatbot Development

Speakers: Acedillo, Jose Marie C., University of the Philippines High School Cebu Melchor, Dan Randolf, University of the Philippines High School Cebu

Souvenir Purchase Motivations and Product Attribute Preferences among Arts and Design Students amidst the Pandemic: Basis for Product Development

Speakers: Baronia, Nadine Kiandra B., University of San Carlos South School

Daño, Julia S., University of San Carlos South School

Mingo, Athia Bless R., University of San Carlos South School Miones, Diane Kirsdy Y., University of San Carlos South School Gagani, Flordeliza S., University of San Carlos South School

4:24- 4:30 Synthesis/ Closing

Day 2 June 01, 2022 (Wednesday) **Morning Session** 8:30-9:00 **Opening Program Opening Prayer** Zoom Meeting: Pambansang Awit Welcome Remarks Catherine M. Rodel, Ed.D. https://upedu.zoom.us/j/9 Principal, UPHS Cebu 6174790149 Acknowledgment of Participants/Overview of the Activity Meeting ID: 961 7479 0149 Passcode: CIDay2AM 9:01-9:45 Plenary 5: Conversation and Interview in the Ethnographic Context Speaker: Clement C. Camposano, Ph.D. Chancellor, UP Visayas 9:46-10:00 Open Forum 10:01-10:15 Plenary 6: Household Characteristics and Academic Performance: A Correlational Study Speakers: Laus, Shana Ann-gela A., University of the Philippines High School Cebu Lomongo, Chelsea V., University of the Philippines High School Cebu **Nellas, Earl James,** University of the Philippines High School Cebu Trazona, Arfil M., University of the Philippines High School Cebu

10:16-10:20	Open Forum
10:21-10:35	Plenary 7: A Comparison of Children's, Adolescents', and Adults' Gender Labeling of
	Speakers: Cañeda, Justine Jade A., University of the Philippines High School Cebu Fernandez, Edrech Niña M., University of the Philippines High School Cebu Rosales, Lavender Rose P., University of the Philippines High School Cebu Satinitigan, Shaira T., University of the Philippines High School Cebu
10:36-10:40	Open Forum

Toys

10:41-10:55	Plenary 8: Challenges and Prospects of the Restaurant Business in the New Normal: A Case of Cebu City
	Speakers: Balmori, Jeremiah Keziah.C., University of the Philippines High School Cebu

Obra, Lianne D., University of the Philippines High School Cebu

Host/ Moderator: Prof. Kenneth Louis Cavanlit
Faculty, UP High School Cebu

11:01-12:00 Digital Poster Viewing
https://www.facebook.com/CICongress2022

12:01-12:59 Lunch Break

10:55-11:00

Open Forum

Afternoon Session

1:00-2:00 **Parallel Session 6**

Moderator: Prof. Kim P. Bondoc

Faculty, UP High School Cebu

Zoom Meeting:

Online Learning Readiness and Perception of Online Learning in Relation to Academic **Performance**

https://upedu.zoom.us/j/9 6520853695

Speakers: Jumao-as, Cesar II D., University of the Philippines High School Cebu Roxas, Regine Rachel L., University of the Philippines High School Cebu Saquin, Vaughn Coolette, University of the Philippines High School Cebu Tausa, Kendra Shy M., University of the Philippines High School Cebu

Meeting ID: 965 2085 3695

> Understanding the Experiences of Parents as Modular Instructors of Elementary Students in a Private School in Hinunangan, South Leyte During the Pandemic

Passcode: CIDay2PMA

> Speakers: Segovia, Simone Kaye B., Bethel International School Lopez, Flloyd Johann, Bethel International School Elizalde, Kiandrei P., Bethel International School Refuerzo, Justin John Y., Bethel International School

Relationship between Parental Involvement and Academic Performance of Children in the **Remote Learning Setup**

Speakers: Kwong, Roxanne C., University of the Philippines High School Cebu Iglesias, Eunice F., University of the Philippines High School Cebu Rondina, Rey S., University of the Philippines High School Cebu

Parallel Session 7

Moderator: Prof. Edwin B. Estrera Faculty, UP High School Cebu

Zoom Meeting

Comparative Financial Analysis of Selected Publicly Listed Corporations of the Chemical **Industry in the Philippines**

https://upedu.zoom.us/j/9 1011613309

Speakers: Huan, A. M. A., University of San Carlos South School Alo, J. M. D., University of San Carlos South School Altamero, J. P., University of San Carlos South School

Meeting ID: Dolera, A. Z., University of San Carlos South School Enriquez, A. M. C., University of San Carlos South School Tan, S. M. T., University of San Carlos South School Passcode:

910 1161 3309

CIDay2PMB

Business Operation Strategies of Small and Medium Business Enterprises During COVID-19 Pandemic in Hamugaway, Cordova, Cebu

Speakers: Macan, Nicole Sheena, Babag National High School Arce, Charlene G., Babag National High School Patalinghug, Aimie S., Babag National High School Gaut, Mary Kris G., Babag National High School

An Assessment on the Preferred Management Styles Towards Handling the Employees in a Medium Salon Industry

Speakers: Lopez, J. M., University of San Carlos South School

Bernat, M. G., University of San Carlos South School Campo, B. P., University of San Carlos South School Gonzalodo, A. M., University of San Carlos South School Ming, N. S., University of San Carlos South School Sinadjan, R. B., University of San Carlos South School

2:01-2:10

Break

2:11-3:11

Parallel Session 8

Moderator: **Prof. Purita T. Baltazar**Faculty, UP High School Cebu

Zoom Meeting:

Being an Advocate: Mactan-Cebu International Airport Healthcare Workers' Lived

https://upedu.zoom.us/j/9 3624516241

Meeting ID: 936 2451 6241

Passcode: CIDay2PMC

Experiences Amidst COVID-19

Speakers: Antepuesto, Athena Ella G., University of San Carlos South School
Flores, Juliana Mae T., University of San Carlos South School
Gonzales, Darren Romie V., University of San Carlos South School
Refugio, Mikka Angela R., University of San Carlos South School
Taparra, Khrystainna Blyle G., University of San Carlos South School
Torrejos, Anne Valerie S., University of San Carlos South School

Willingness to Get Vaccinated Against COVID-19 and Attitude Toward COVID-19 Among Grade 12 Humanities and Social Sciences Students: A Correlational Study

Speakers: Antepuesto, Athena Ella G., University of San Carlos South School

Coja, Dennis A., Jr., University of San Carlos South School

Comeros, Therese Carmel C., University of San Carlos South School Flores, Juliana Mae T., University of San Carlos South School Guantero, Vea Marielle T., University of San Carlos South School Torrejos, Anne Valerie S., University of San Carlos South School

A Comparative Study on Gender and Incognizance in Regards to Health Protocols Among the Youth

Speakers: Raboy, Mary Louise F., University of San Carlos South School

Agdon, Alyssa Sofia S., University of San Carlos South School Amadora, Mel Francis B., University of San Carlos South School Geralde, April Rose S., University of San Carlos South School Hermosa, Sherlyn Louise M., University of San Carlos South School Malabay, Michaela E., University of San Carlos South School

Parallel Session 9

Moderator: **Prof. Edwin B. Estrera**Faculty, UP High School Cebu

Zoom Meeting: https://upedu.zoom.us/j/9 4334067857

Meeting ID: 943 3406 7857

Passcode: CIDay2PMD

The Management Practices of Water Refilling Industry in Cebu Amidst Pandemic

Speakers: Enterina, Helen M., University of San Carlos South School
Golez, Simone Marie, University of San Carlos South School
La O', David Antony S., University of San Carlos South School
Sarcauga, Euricka N., University of San Carlos South School
Tudlasan, Laika P., University of San Carlos South School

Consumers' Buying Behavior on Street Foods in Lapulapu City Public Market

Speakers: Penales, Lea S., Babag National High School Isidto, Jubie Dinia, Babag National High School Lamoste, Ariadne, Babag National High School Toledo, Charnel, Babag National High School

Brand Positioning and Promotional Strategy of Ginabot sa Bayot in Babag I, Lapulapu City: Proposed Marketing Plan

Speakers: Alcoriza, Lovely., Babag National High School

Retamas, Mary Cathlene B, Babag National High School

Delechos, Irish T., Babag National High School Bontaliao, Psalm Angel, Babag National High School

3:12-	3.22	Break

3:23-4:23 Parallel Session 10

Moderator: **Prof. Ericka Mae Encabo**Faculty, UP High School Cebu

Zoom Meeting: Book Genres in Relation to Communication Styles

https://upedu.zoom.us/j/9 3567220664 Speakers: Clarin, Niecel Shiene A., University of the Philippines High School Cebu
Perez, Eleanna S., University of the Philippines High School Cebu
Saavedra, Niña Therese E., University of the Philippines High School Cebu
Cartagena, Jeanamay, University of the Philippines High School Cebu

Meeting ID: 935 6722 0664

Perceptions of Gaming Community and Exposure: A Correlational Study

Passcode: CIDay2PME Speakers: Capacio, Rolf Godwin M., University of the Philippines High School Cebu
Carlos, Marvie Kyle G., University of the Philippines High School Cebu
Girasol, Emmanuel Allain A., University of the Philippines High School Cebu
Villamor, Mary Loise R., University of the Philippines High School Cebu

Analysis of UPHS Cebu Students' Well-Being Amidst the Pandemic Using the PERMA Model

Speakers: Inez, Erika Florence P., University of the Philippines High School Cebu Villacorta, James Alex P., University of the Philippines High School Cebu

Parallel Session 11

Moderator: **Prof. Kenneth Louis Cavanlit**Faculty, UP High School Cebu

Zoom Meeting: Assessment of Public Compliance of COVID-19 Protocols in Cebu City

https://upedu.zoom.us/j/9 7871526209 Speakers: **Joromo, Neil James C.,** University of the Philippines High School Cebu **Lacorte, John Mart P.,** University of the Philippines High School Cebu

Perception Towards COVID-19 Vaccination Program of the Residents in a Rural Area in Cebu

Meeting ID: 978 7152 6209

Passcode:

Speakers: Catubig, Khayraen Kaeth, University of the Philippines High School Cebu Pantaleon, Shaine Kate, University of the Philippines High School Cebu

CIDay2PMF Carbon Market Modernization: The Impact of Privatization to the Vendors in Cebu City

Speakers: **Doble, Olive Jude,** University of the Philippines High School Cebu **Nuñez, Bazer,** University of the Philippines High School Cebu

4:24- 4:30 Synthesis/ Closing

PLENARY ABSTRACTS

Day 1: 31 May 2022 (Tuesday)



Theme: Fostering Research Collaboration in the New Normal

Assessment of Public Health Emergency Preparedness in Barangay Lahug, Cebu City

Cañete, A.N. and Gadia, J. University of the Philippines High School Cebu

Abstract

With the recent COVID-19 pandemic and other prior health emergencies, the concept of public health emergency preparedness (PHEP) is no longer new to health systems worldwide. However, health devolution in the Philippines provides numerous flaws to the healthcare system, making barangays experience a heavy burden in dealing with health emergencies. Thus, this research aims to assess the public health emergency preparedness of Barangay Lahug, one of the barangays with high COVID-19 cases in Cebu City. A total of 40 household heads were asked to evaluate their household and community PHEP. Similarly, barangay authorities were interviewed regarding their existing health programs and policies for the community. Results of the study show that Barangay Lahug is perceived to have high overall PHEP, indicated by the high household PHEP and moderately high community PHEP. Household PHEP is significantly influenced by household size, while community PHEP is influenced by political dynamics and inter-agency coordination. With the ongoing pandemic, it is necessary for Barangay Lahug to employ quality PHEP to avoid any repercussions in their community.

Keywords: barangay, household, community, LGUs, PHEP, common ground preparedness framework

About the Authors

¹Cañete, Alexandra Nicole C. accanete@up.edu.ph,

Alexandra Nicole C. Cañete is a first year BS Chemical Engineering student at the University of the Philippines Diliman. She is an alumna of the University of the Philippines High School Cebu wherein she graduated with highest honors and as the class valedictorian last 2021. Apart from her course, she also dedicates herself in the fields of science and mathematics and aspires to work in the oil and gas or mining industry someday.

²Gadia, Jeramae B.

University of the Philippines High School Cebu

Jeramae B. Gadia graduated with honors from the University of the Philippines High School Cebu. She is currently taking up Bachelor of Science in Accountancy at the University of Cebu. For the time being, she is still learning and exploring the fields of accounting.

COVID-19 Mortality Rates Worse in Poor Populations

Batobalonos, L. J¹ and Canonigo, R.Z. R. ² *University of the Philippines High School Cebu*

Abstract

COVID-19 is a contagious disease that has spread rapidly and caused serious problems worldwide. Vaccination and socioeconomic conditions may influence death due to the disease; thus, this study aims to correlate COVID-19 mortality rate with the COVID-19 profile and socioeconomic factors of selected countries based on vaccine development. Data on COVID-19 profiles and socioeconomic factors of the selected countries were gathered from national organizations and public online databases, and were analyzed through multiple regression analysis. The study found that COVID-19 active cases and poverty rate are positively correlated to COVID-19 mortality rate. However, unemployment rate and inflation rate are negatively correlated to COVID-19 mortality rate. The findings suggest that COVID-19 mortality rate is worse in poor populations that lack access to public healthcare systems. These findings provide great significance to improve the existing vaccination policies that cater to the majority of the population. Lastly, multiple stream analysis results recommend strengthening the role of the World Health Organization to better handle and oversee emerging global health crises.

Keywords: coronavirus disease, COVID-19 deaths, GDP, multiple stream analysis, public health, COVID-19 guidelines

About the Authors

Batobalonos, Louie John

lbatobalonos1@up.edu.ph

Louie John Batobalonos is a Grade 12 student studying at the University of the Philippines High School Cebu. He is currently under the Science, Technology, Engineering, and Mathematics (STEM) strand. Along with other researchers, he has done research involving the relationship between awareness and compliance of common citizens. If given the opportunity, he would conduct research that could include microbe experiments, economic market investigation, and architectural improvements. At the present, he is currently on the path of finishing their research entitled "COVID-19 Mortality Rates Worse in Poor Populations".

²Canonigo, Rafaela Zyun, R.

rrcanonigo@up.edu.ph

Rafaela Zyun R. Canonigo is a Grade 12 student studying at the University of the Philippines High School Cebu. She is currently under the Science, Technology, Engineering, and Mathematics (STEM) strand. In the previous years, she has co-authored a research involving the mental health and well-being of high school students. At the present, she is currently on the path of finishing their research entitled "COVID-19 Mortality Rates Worse in Poor Populations". For future reference, she is interested in topics regarding infectious diseases, sociology, and political misinformation.

Digital Carbon Footprint Accumulated by High School Students' Mobile Devices in Online Learning

Lapaz, J. B.¹, and Rosas, R. G. D.² *University of the Philippines High School Cebu*

Abstract

CO₂ emissions have immensely risen throughout the years as industries advance, posing serious threats to the environment. However, the overall CO₂ emissions dropped as the COVID-19 pandemic halted several operations, but was offset by the increase in digital carbon footprint as schools return remotely with the aid of technology. The majority of Filipino students use mobile devices for online learning potentially contributing to CO₂ rise. Thus, 150 high school students in Cebu City taking online classes were surveyed to examine their digital carbon footprint output by determining the mobile apps they use and their corresponding screen time. Digital carbon footprint was quantified through the 0.057 kg CO₂ equivalent per minute of phone use conversion. Results show that most of the students use video conferencing, browsing, and communication apps, which are heavily used as an alternative classroom tools to facilitate learning in an online environment. The use of these apps yielded an annual equivalent of 12,099.95 kg CO₂, surpassing the Philippines' 1,610 kg of CO₂ per capita biophysical boundary. This indicates that the online learning setup has greatly contributed to the accumulation of digital carbon footprint in the past few years. Thus, it is recommended to determine perception and awareness of the people about the digital carbon footprint to determine how they can factor its accumulation from their mobile and online activities.

Keywords: remote learning, carbon dioxide emission, sustainability, environment, technology

About the Authors

^¹Lapaz, Jermel B.

jblapaz@up.edu.ph

Jermel Lapaz is a Grade 12 senior high school student from the University of the Philippines High School Cebu. He took Science, Technology, Engineering, and Mathematics (STEM) as his chosen strand because he takes an interest in the fields of science and technology. During his time in junior high, he and his research colleagues investigated the impact of Facebook use on high school students' self-esteem. It aimed to examine how exposure to such social media platform takes effect on their perception of themselves. Now, in his final year, he and his co-researcher aim to explore the subsequent effects of mobile device use by high school students on their digital carbon footprint accumulation.

Rosas, Rhea Grace D.

rdrosas@up.edu.ph

Rhea Rosas is a Grade 12 senior high school student from the University of the Philippines High School Cebu. She took Science, Technology, Engineering, and Mathematics (STEM) as her strand and is interested in science, ecological, and environmental research. In her junior high school, she and her co-researchers conducted a study on the relationship between mobile phone usage and the academic performance of high school students that ventures around the education and technology. Now, in her senior year, she and her co-researcher took an interest in the technology, educational, and environmental fields, specifically digital carbon footprints.

PARALLEL SESSIONS ABSTRACTS

Day 1: 31 May 2022 (Tuesday)



Theme: Fostering Research Collaboration in the New Normal

Cornstarch with Typha Angustifolia (Narrow-Leaf Cattail) Fiber as Potential Material for Bioplastic Seedling Cups

Ando, R.M.¹, Silawan, H.B.², Sebial, S.F.³, Cabrera, B.B.⁴, Ruiz, J.K.P.⁵, Mante, C.A.⁶ Babag National High School

Abstract

Plastic becomes a vital part of our lives. Selvamurugan & Pramasivam (2019) observed that there is a great demand for the use of plastics around twenty-fold and expected to fold up in the next 20 years. Further, bioplastics become a trend in lessening the necessary use of petrochemicals based plastic. This research investigated cornstarch with Typha Angustifolia (narrow-leaf cattail) fiber as potential material for bioplastic seedling cups. Further, it described the tensile strengths, elongation, thermal strength, and biodegradation properties. This study employed an experimental research design with cornstarch with Typha Angustifolia (Narrow-Leaf Cattail) fiber as bioplastic seedling cups as the object of the study. The data were analyzed using tensile property analysis, thermal property analysis, and biodegradation soil analysis. The findings showed that cornstarch with Typha Angustifolia (Narrow-Leaf Cattail) fiber has a tensile strength of 10.17 MPa, percent elongation of 13.33%, with a thermal property of jelly-like texture at 90°C - 100°C, and degradable in the soil after five days. Thus, the cornstarch with Typha Angustifolia (Narrow-Leaf Cattail) fiber can be a potential material for bioplastic seedling cups.

Keywords: bioplastic, narrow-leaf cattail, seedling cups

About the Authors

¹Ando, Rea M. reaando210@gmail.com

Rea M. Ando is a Grade 12 Science, Engineering, Technology and Mathematics (STEM) student of Babag National High School. She conducted a local study about health and regulations related to Covid-19. She is an honor student in her class.

Hearth B. Silawan is a Grade 12 Science, Engineering, Technology and Mathematics (STEM) student of Babag National High School. She conducted a local study about experiences and challenges of Covid-19 nurses. She is an honor student in her class.

Shanley F. Sebial is a Grade 12 Science, Engineering, Technology and Mathematics (STEM) student of Babag National High School. She conducted a local study about experiences and challenges of massage therapist during Covid-19. She is an honor student in her class.

Beatrice B. Cabrera is a Grade 12 Science, Engineering, Technology and Mathematics (STEM) student of Babag National High School. She conducted a local study about experiences and challenges of massage therapist during Covid-19. She is an honor student in her class.

²Silawan, Hearth B.

³Sebial, Shanley F.

^{*}Cabrera, Beatrice B.

⁵Ruiz, Jem Kirsten P.

Jem Kirsten P. Ruiz is a Grade 12 Science, Engineering, Technology and Mathematics (STEM) student of Babag National High School. She conducted a local study about working conditions of single parents in MEPZA during Covid-19. She is an honor student in her class.

⁶Mante, Charles A.

Charles A. Mante is a Grade 12 Science, Engineering, Technology and Mathematics (STEM) student of Babag National High School. He conducted a local study about difficulties of Filipino crews in AIDA Cruise Ship during Covid-19. He is an honor student in her class.

Research Adviser: Vonn Clyde C. Nunez

Incidence of Canine Parvovirus Among Household Dogs in Cebu City

Binatero, S.A.¹, Constantino, I.L.² *University of the Philippines High School Cebu*

Abstract

Canine parvovirus (CPV) is a highly contagious virus with high morbidity and mortality in dogs. There is currently a rarity of epidemiological studies regarding CPV infection in Cebu City. Understanding potential risk factors for CPV is essential for minimizing disease transmission. Thus, this study aims to determine the relationship between the CPV incidence in Cebu City and the dog owners' sociodemographic characteristics, attitudes to pet care, and their dogs' profiles. Through criterion sampling, 152 dog owners were identified and answered the self-made questionnaire. Statistical analysis revealed a significant relationship between CPV incidence and sociodemographic profile of owners, such as age and employment status, but it is not associated with their attitudes toward pet care. The study also found that CPV incidence was not dependent on the dogs' age, sex, or breed but was influenced by the dogs' vaccination status. Partially vaccinated dogs were more likely to be tested positive for CPV, which may be attributed to CPV immunization failures. Thus, the authors recommend that dog owners follow the recommended vaccination guidelines, have dogs vaccinated at well-recognized and well-reviewed veterinary clinics/hospitals, and, if possible, have antibody testing performed on their dogs to reduce the risks of CPV immunization failure.

Keywords: sociodemographic profile of dog owners, attitudes to pet care, dog profiles

About the Authors

¹Binatero, S.A.

sabinatero@up.edu.ph iconstantino@up.edu.ph

Sylwyn A. Binatero is a Grade 12 student studying at the University of the Philippines High School Cebu. He is currently under the Science, Technology, Engineering, and Mathematics

(STEM) strand. He has co-authored a study about developing a student academic performance information system for the University of the Philippines High School Cebu. Now, he is currently on the path of finishing their research entitled "Incidence of Canine Parvovirus Among Household Dogs in Cebu City During the COVID-19 Pandemic." For future reference, he is interested in topics regarding animal science and infectious diseases.

²Constantino, I.L.

iconstantino@up.edu.ph

Immanuel Lito Constantino is a Grade 12 student at the University of the Philippines High School Cebu. He is currently under the Science, Technology, Engineering, and Mathematics (STEM) strand. He was also an associate researcher of a study involving the preferences of Filipino consumers towards online shopping and in-store shopping. He is actively and currently completing his research entitled "Incidence of Canine Parvovirus Among Household Dogs in Cebu City During the COVID-19 Pandemic." His research interest includes mortality rate of canine parvovirus incidence, establishing a centralized database for canine parvovirus cases, wireless networks, underground cable system, and emergency management.

Research Adviser: Sean L. Policarpio

"Fresh Air from Less Fare": Correlation of the Air Quality and Road Traffic in Metro Cebu During the Period of Remote Work

Dee, F.P.S. , Jabagat, G.N.A. University of the Philippines High School Cebu

Abstract

The COVID-19 pandemic impacted people's livelihoods in the Philippines due to stayat-home orders imposed to prevent the virus's transmission and these measures resulted in a significant reduction in vehicular activity. With that, this study aims to determine the correlation between air quality, road traffic, and weather conditions in Lapu-Lapu City, Cebu using the hourly Air Quality Index, and the hourly concentration of major pollutants, such as PM2.5, PM10, NO2, and O3, the hourly rate of vehicular flow in three sample sites, and the daily status of the different weather conditions, such as air temperature, air pressure, wind speed, wind direction, and relative humidity. Monitoring and recording of air quality data from an online database and road traffic data from surveillance footage were conducted in a span of two months from November 2021 to December 2021. In addition, daily weather data is then requested from a public facility. Results show that the air quality in Lapu-Lapu City in terms of PM2.5, PM10, and NO2 concentrations is considered satisfactory and air pollution poses little to no risk from exposure. However, for O3, concentration levels were high. Through the random forest model, tropospheric ozone (O3) is shown to be a strong indicator of AQI because of its high importance value. These findings suggest that the decrease in road traffic caused by the stay-at-home policy did not significantly affect the air quality in Lapu-Lapu City but the concentration of tropospheric ozone formed does.

Keywords: air quality, road traffic, weather conditions, random forest model

About the Authors

Dee, F.P.S.

fsdee1@up.edu.ph

Francis Philippe S. Dee is a Grade 12 STEM student from the University of the Philippines Cebu - High School Program. Since Grade 7, he studied at the aforementioned university and was exposed to its academic programs related to research. He dedicates himself to the fields of science and aspires to be a data scientist.

²**Jabagat, G.N.A.** gajabagat@up.edu.ph

Grazel Niña A. Jabagat graduated from Lahug Elementary School during her elementary years. She is currently a grade 12 STEM student from the University of the Philippines High School Cebu.

Research Adviser: Sean L. Policarpio

Parallel Session 2

The Knowledge, Attitude, and Practices on Biomedical Waste Management Among Public and Private Hospital Staff in Palo and Tacloban

Casillano, K.T.S.¹, Chua, R.M.², Jadloc, J.S.P.³, Pfleider, E.L. III⁴ *Bethel International School*

Abstract

Biomedical waste management is essential for healthcare professionals to thwart both health and environmental risks. Coronavirus disease (COVID-19) has spread worldwide, creating a substantial problem for the healthcare industry and would likewise necessitate proper biomedical waste management. A quantitative, comparative study was conducted to assess and determine the level of knowledge, attitude, and practice, among hospital staff (doctors, nurses, nursing attendants, medical technologists, and insource cleaning staff) of public and private hospitals situated in Palo and Tacloban City, respectively, regarding biomedical waste management. The target sample size for the study was computed using Slovin's Formula, from which 181 survey questionnaires were retrieved and collected for the study out of a total population of 243 from both facilities. The hospital staff from both public and private institutions had an average level of knowledge of biological waste management. In terms of attitudes, both public and private hospital workers had a positive attitude toward biological waste management. The study found that hospital workers frequently practiced the stages of biological waste management. There was a weak, significant positive relationship between knowledge and attitude (r (181)= -.178, p = $.0\overline{16}$), as well as between attitude and practices (r $(18\overline{1}) = .235$, p = .001). In contrast, there was a moderate, significant positive relationships between biomedical waste management knowledge and practices (r (181) = .425, p = .000). Generally, there was no significant difference between public and private hospital knowledge, attitudes, and

practices, but a significant relationship between the variables mentioned above was determined based on the results.

Keywords: knowledge of biomedical waste management, attitude towards biomedical waste management, the practice of biomedical waste management, Coronavirus disease (COVID-19), hospital staff, public and private hospital

About the Authors

¹Casillano, K.T.S.

kim_casillano@bethel.edu.ph

Kim Trisha S. Casillano is a senior high school student of Bethel International School. Her recent research focuses on the knowledge, attitude, and practices on biomedical waste management among public and private hospital staff in Palo and Tacloban.

²Chua, R.M.

robina_chua@bethel.edu.ph

Robina M. Chua is a senior high school student of Bethel International School. Her recent research focuses on the knowledge, attitude, and practices on biomedical waste management among public and private hospital staff in Palo and Tacloban.

³Jadloc, J.S.P.

jed_jadloc@bethel.edu.ph

Jedidiah Shawn P. Jadloc is a senior high school student of Bethel International School. Her recent research deals with the knowledge, attitude, and practices on biomedical waste management among public and private hospital staff in Palo and Tacloban.

Pfleider, E.L. III

popoy_pfleider@bethel.edu.ph

Edwin L. Pfleider III is a senior high school student of Bethel International School. His recent research discusses the knowledge, attitude, and practices on biomedical waste management among public and private hospital staff in Palo and Tacloban.

Research Adviser: Sandra D. Solis

Community Readiness of Barangay Lahug Residents on Single Use Plastic

Maralang, L.Y. , Savilla, S.U.D. , Sanchez, J.A.A. *University of the Philippines High School Cebu*

Abstract

The objective of this case study is to determine the level of readiness of the barangay Lahug residents in banning single-use plastics. The researchers used the Community Readiness Model and modified questions from the said framework to measure the level of readiness. To gather the needed data, the researchers conducted surveys with the use of Google Forms as its platform. The participants were adults who had been residents of Lahug for at least a year. It was found out that the community of Barangay Lahug belongs between the

Preparation and Initiation Stages in terms of readiness when it comes to banning single-use plastics. This implies that the community has recognized the issue of plastic pollution. This also indicates that some actions involved in banning single-use plastics have also begun while some are being planned. These findings are backed up by reports, as well as the Community Readiness Theory. The researchers of this study recommend that future researchers should also use other models that look into the community readiness of Barangay Lahug to have more information and compare it with the results of CRM assessments. Aside from this, choosing coastal barangay as the research environment is also recommended. This would help identify the situation of communities close to the marine ecosystems.

Keywords: single-use plastics, community readiness, barangay Lahug

About the Authors

¹**Maralang, L.Y.** lymaralang@up.edu.ph

Lebron Maralang is a Grade 10 University of the Philippines High School student. He has made it into Honor's list last year. His interests lie in Science and Technology, as well as Mathematics. Lebron plans to take STEM as his Senior High School strand for he hopes to pursue engineering in college or take a programming or science-related course. Along with his co-researchers, he has written a study entitled "The Community Readiness of Barangay Lahug Residents on SIngleuse Plastic Ban". This study aims to determine the readiness of the barangay Lahug residents in terms of a single-use plastic ban.

²**Savilla, S.U.D.** sdsavilla@up.edu.ph

Shan Uhwee Savilla is a Grade 10 University of the Philippines High School student. He has consistently passed all his previous subjects. His interests lie in Science and Technology, as well as Arts. He plans to take STEM as his Senior High School strand for he hopes to become an architect or land a job in the science field. Along with his co-researchers, he has written a study entitled "The Community Readiness of Barangay Lahug Residents on Single-use Plastic Ban". This study aims to determine the readiness of the barangay Lahug residents in terms of a single-use plastic ban.

Sanchez, J.A.A. jasanchez6@up.edu.ph

Julianne April Sanchez is a Grade 10 University of the Philippines High School student. She has participated in multiple Investigatory Project Competitions. Her interests lie in Science and Technology, as well as Mathematics. Julianne plans to take STEM as her Senior High School strand for she hopes to become an engineer or land a job in the programming field. Along with her co-researchers, she has written a study entitled "The Community Readiness of Barangay Lahug Residents on SIngle-use Plastic Ban". This study aims to determine the readiness of the barangay Lahug residents in terms of a single-use plastic ban.

Research Adviser: Ricky R. Salem

Preliminary Investigation of Household Electric Consumption by Students due to Remote Learning

Codera, T.K.P. , Hirano, U.H.J. University of the Philippines High School Cebu

Abstract

Residential electricity consumption has been rising over the course of the COVID-19 pandemic as many activities transitioned remotely, including education. Thus, this study aimed to determine the household student profile, electricity consumption, and conservation practices of 150 households in Cebu City. Survey results have shown that there are at least two students per household in Cebu City, with online learning as their most common modality. The majority of these students have smartphones, spending 4.92 hours a day in their classes. However, students with laptops spend the most time on online classes at 5.22 hours a day. Despite the large user base for smartphones, they consume less electricity. Desktops and television have the highest cost per gadget. Laptops and desktops have the highest contributions to electricity consumption, corresponding to about 26.97 to 36.12% of the monthly electric bill. As the COVID-19 pandemic persists, electricity consumption of gadgets due to remote learning will continue to increase, potentially affecting financially struggling families.

Keywords: COVID-19 pandemic, education, electricity, gadgets, smartphones

About the Authors

¹Codera, T.K.P. tpcodera@up.edu.ph

Terience Kyle Pelones Codera is also a Grade 12 STEM student at the University of the Philippines High School Cebu. He was once a part of an astronomy class at the university and wishes to pursue studies along the lines of physics and engineering. He further aspires to contribute to the building of technology that is beneficial for the future of humanity; having thoughts that humanity's future lies in the studies of rocket science and the development of superior technology for planetary exploration.

²**Hirano, U.H.J.** *ujhirano@up.edu.ph*

Ukimasa Hirano Juntilla Hirano is a Grade 12 STEM student from the University of the Philippines High School Cebu. He previously co-authored research about the effects of social media on the self-esteem of students. For future references, he is interested in the fields of medicine, specifically Pharmacy, and Biology.

Impact of Online Cross-Age Tutoring on the Tutees' Mathematics Skills during Pandemic

Batiancila, J.D. , Calderon, R. J. , and Dijos, D. Cebu City Don Carlos A. Gothong Memorial National High School

Abstract

This action study aimed to determine the impact of online cross-age tutoring on the tutees' mathematics skills in a public school in Cebu City. The tutors were 29 Grade 12 STEM students who conducted online tutoring to 54 Grade 11 students for 2 months. The tutoring program was part of the Practical Research subject requirement for the tutors. Its content underwent validation from its math teachers. The tutees were Grade 11 students who voluntarily participated in the program. Using the Paired-Sample ttest, the pretest-posttest results had t (53) = -6.79, p<.05, Cohen d (.87). This means there is a significant difference and a very large effect size. To validate the findings, a faceto-face focus-group discussion was conducted which revealed that the tutees learned because the tutors were approachable, understanding, and good motivators, gave a good and detailed explanation and made sure tutees understand the topic to the point of reteaching it. This study recommends the following: 1) to use cross-age as a strategy to improve the students' academic performance in Mathematics; 2) to conduct face-toface tutoring where students are more comfortable due to limited resources and to avoid distractions; 3) to provide sufficient time in answering activities; 4) to limit tutorial schedule to one hour outside household chores.

Keywords: Online, cross-age tutoring, General Mathematics skills, pandemic

About the Authors

¹Batiancila, Jean Deanne J.

ngoverniceann@gmail.com

Jean Deanne J. Batiancila is a Grade 12 STEM student from Cebu City Don Carlos A. Gothong Memorial National High School. She finished as a class valedictorian in her elementary and completed her junior high school with high honors. She has been recognized as a 2017 Outstanding Student in Drafting and Computer at the University of Cebu. Also, she has had a deep interest in science and competing in science bee quizzes ever since grade school. She loves knowledge and discovering new things. She is passionate about personal development and growth.

²Calderon, Reyroucellin Joy

Reyroucellin Joy Calderon is a Grade 12 STEM student at Cebu City Don Carlos A. Gothong Memorial National High School. She has been attending Science classes since elementary and has always been among the cream of the crop from elementary until Senior High School. As a Campus Journalist, she represented her school in the Division Level Contest for 3 years. She is very keen on any quest of developing information in such different depths. She loves reading and writing in any range of knowledge she unravels.

³Dijos, Dianne Marie

Dianne Marie Dijos is a Grade 12 STEM student of Cebu City Don Carlos A. Gothong Memorial National High School. She has been an achiever ever since. She completed her junior high school with high honors from the school's special science class. She also loved doing investigatory projects and sometimes represented her school in division contests. She

is an enthusiast in seeking knowledge in any way possible and loves reading and every piece of information she unfolds.

Research Advisers: Vernice Ann C. Ngo, Michael A. Duarte, Jesebel C. Lausa

Note-Taking Media and Language Proficiency in Relation to Listening Skills

Cuizon, S.S.¹, Ongcoy, A.M.C.², and Vanzuela, C.A.³ *University of the Philippines High School Cebu*

Abstract

This causal-comparative study aimed to determine the effect of the medium of note-taking on listening comprehension with language proficiency as a moderating variable. The note-taking media under study are longhand and digital note-taking. A listening comprehension test was administered to the 84 junior high school student respondents from a university in Cebu City, who were grouped according to their note-taking medium preference. The English grades of the respondents for the 1st Grading Period was used as measurement of their English language proficiency. It was found out that there is no significant difference between the listening comprehension of the respondents from the longhand and digital note taking groups. Similarly, there is also no significant difference between the English language proficiency of respondents from the longhand and digital note-taking groups. Furthermore, the effect of note-taking medium on listening comprehension does not depend on the effect of English language proficiency on the listening comprehension of the respondents. It is recommended that future researchers make use of standardized tests to measure the English language proficiency to arrive at more accurate and concrete findings.

Keywords: digital note-taking, L2 learners, language proficiency, listening comprehension, longhand note-taking, note-taking

About the Authors

¹Cuizon, Sam S.

sscuizon@up.edu.ph

Sam S. Cuizon is a current grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

²Ongcoy, Angel Mharlize C.

amcongcoy@up.edu.ph

Angel Mharlize C. Ongcoy is a current grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

³Vanzuela, Chariz An

cavanzuela@up.edu.ph

Chariz An Vanzuela is a current grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

Research Adviser: Purita T. Baltazar

FILIPIKNOW: Offline Interactive Gaming of Philippine Geography

Tambis, G.A. ¹, Amora, E.L. ², Cañete, K.N. ³, Castillas, R.P. ⁴, Centillas, R.C. ⁵, and Tigley, T.M. ⁶ *Science and Technology Center (STEC)*

Abstract

This innovation can be utilized as an alternative learning material for teaching geography in schools and this ought to produce a free Mobile Educational Application that can enhance geographical education, available offline, and can be used by students and teachers. This project will contribute to the development of education in our society. FilipiKnow: An offline interactive map of the Philippines has two modes: Quiz and Explore. The Quiz mode, which aims to improve geography knowledge, is divided into three difficulty levels: national, regional, and provincial. The Explore mode includes an interactive map of the country and offers geographical information. To collect data from the key informants, this study used an in-depth interview method with teachers and the SUS scale with students. Snowball sampling was used to choose the student-respondents. Meanwhile, the researchers chose teacher-respondents based on the following criteria: For teachers, must have majored in Araling Panlipunan.

In data analysis, the app achieved an average score of 93.5 (A) in the System Usability Tests. Educators validated Filipiknow, stating that it can be utilized by a large number of individuals with minor alterations. Ultimately, the results suggest that the Filipiknow app is an excellent alternative learning resource that offers interactive and fun learning for Philippine geography. With that being said, in order to provide the best tool and services for students, the following possible features may be expected: (1) History of the Philippines and its regions and provinces, and (2) Quiz feature wherein students specify a region.

Keywords: Interactive Map, Offline Gaming, Physical Geography, Mobile Application, Philippine Exploration, and Alternative Learning Material

About the Authors

¹Tambis, Ghudz Ernest A.

ghudztambis5@gmail.com

Ghudz Ernest A. Tambis is 18 years old and was born on July 9, 2003 in Cebu City, Cebu. He is a senior high school student currently studying in the Science and Technology Education Center (STEC). He completed his junior high school education at Marigondon National High School and his elementary education at Nissi Academy International School. His personal interests and hobbies include filming, video editing, photography, badminton, chess, and creating video games. He entered and participated in contests. His team is a finalist in the International Climate Hack Competition. His other team won the Safe Spaces Short Film National Competition. He is a student who is dedicated to his studies and goals.

²Amora, Ernest Yves, L.

Ernest Yves L. Amora is a Grade 12 Senior high school student and is currently studying at Science and Technology Education Center (STEC). He is aged 18 and is currently staying in Marigondon, Lapu-Lapu City, Cebu. He studied and finished his Junior High School education at Marigondon National High School SY 2016-2020. He was part of the School's Boy's Scout which taught him how to be a disciplined and responsible individual. He is also a student with decent grades and behavior as he received the with honors award and the perfect attendance award. He is currently working as a salesman in their family's business to acquire experience and learn human interaction and communication.

³Cañete, Kyla Nicole

Kyla Nicole Cañete is a Grade 12 Senior high school student and is currently studying at Science and Technology Education Center (STEC). She is 18 years old and currently living in Ibabao, Cordova, Cebu. She studied and finished her Junior High School education at Marigondon National High School during 2016-2020. Where she received awards for placing 2nd in Editorial Writing (MTB Category) in District Level and also for placing 1st place in Table Tennis (Doubles) in District level and City Palaro. She also studied and finished her elementary education in Pilipog Elementary School and she also finished as 2nd Honorable Mention.

⁴Castillas, Rosbell P.

Science and Technology Center (STEC)

Rosbell P. Castillas was born on September 16, 2003 and is currently studying as a Grade 12 STEM student at Science and Technology Education Center (STEC)-SHS. He is residing at Purok Kapayas, Barangay Canjulao Lapu-Lapu City, Cebu. Since kindergarten, he has shown exemplary traits, which made him one of the top students in their class. He graduated salutatorian in elementary school and with honors in junior high. He also became a district and division level representative for MTAP and Math Quiz, Math Olympiad, Financial Literacy Quiz Bee, POPCOM quiz, Badminton, and poster making contests. He dreams of becoming a seafarer someday and traveling the world.

⁵Centillas, Renielynn C.

Science and Technology Center (STEC)

Renielynn C. Centillas is currently studying in Science and Technology Education Center (STEC) – SHS in which she is a Science, Technology, Engineering, and Mathematics (STEM) student in Grade 12. She was born on June 17, 2004 and currently lives in Casia, Bankal, Lapu-Lapu City, Cebu. She has been an honor student with excellent grades since elementary school. She also received awards for being an achiever and for winning a district-level pop quiz back in 2019. She dreamed to be one of the aspiring civil engineers with outstanding credentials. Furthermore, she has also the qualities of a hardworking and responsible student.

⁶Tigley, Thyatera Alexis M.

Science and Technology Center (STEC)

Thyatera Alexis M. Tigley is currently a Grade 12 STEM student at Science and Technology Education Center (STEC) - SHS. She was born on November 14, 2003, and her current residence is at Basak iba, Lapu-Lapu City, Cebu. Since Junior High, she has been an honor student with exceptional grades. She also got awards in athletic competitions, including Athlete of the Year, Second Place in the 2016 Badminton District level, and Third Place in the 2019 Volleyball District Meet, among others. She aspires to become a doctor with exceptional qualifications and aims to assist the underprivileged and the impoverished; she is a diligent student.

Research Advisers: Dr. Bryant C. Acar, Dr. Allan Adem, Ms. Ruby Armada

Dietary Habits and Nutritional Status of College Students in Cebu City During the COVID-19 Pandemic

Degulacion, B. A¹, and Taytay, A.R.M.² University of the Philippines High School Cebu

Abstract

The COVID-19 pandemic has seriously influenced the global food systems and nutrition, as observed in the dietary habits of the people. Among those affected are college students, who are assumed to be responsible for their meals while limited mobility due to the pandemic ensues. Thus, this study aims to determine the relationship between the profile, dietary habits, and nutritional status of 150 college students in Cebu City using an adapted questionnaire. Results show that the college students have moderate consumption of healthy food products and have low consumption of unhealthy food products. This relatively good dietary consumption is attributed to the college students having their own source of money to buy their own food, which decreases their reliance on potentially unhealthy food available in their households. Moreover, the BMI of the college students is within the normal range, which indicates a relatively healthy body condition. However, no significant relationship was found between these components. With the BMI not influenced by the pHDI and nHDI of college students, it is recommended that future studies explore other determinants of nutrition, considering the dynamic changes in dietary habits during the pandemic.

Keywords: *nHDI*,*pHDI*, *BMI*, health, food systems

About the Authors

Degulacion, Beverly A.

badegulacion@up@edu.ph

Beverly A. Degulacion is a grade 12 Science, Technology, Engineering, and Mathematics student at the University of the Philippines High School Cebu. She started doing research in her junior high school years with her research group. Their study is about the impacts of Facebook interaction on the self-esteem of teenagers in Metro Cebu. In senior high, with her research partner, they studied the dietary habits and nutritional status of college students in Cebu City during the COVID-19 Pandemic. Although she is in the field of science, technology, engineering, and mathematics, she has a big interest in psychology, business, and arts.

²**Taytay, Ann Rovin Mile P.** *aptaytay@up.edu.ph*

Ann Rovin Mile P. Taytay is a student from the University of the Philippines High School Cebu taking up the Science, Technology, Engineering, and Mathematics (STEM) strand. During her junior years, together with her groupmates, they studied the job employment process of the alumni in a certain high school who recently graduated from college in Cebu. Currently, along with her research partner, they studied the dietary habits and nutritional status of college students in Cebu City during the COVID-19 pandemic. Apart from these, she also got an interest in topics such as gender identity, sexual orientation, adoption, and mental health.

Perceived Effects of Online Learning Towards Students' Sleep Health

Cartuciano, J.C.A.¹, and Montaño, E.J.R.² University of the Philippines High School Cebu

Abstract

When the World Health Association declared the pandemic in March 2020, the Philippine government strictly implemented lockdowns and movement restrictions that required people to stay at their homes. Following the guidelines of a lockdown, educational institutions were called for closure. The country opted for online learning to resume education which challenged educational institutions and teachers to take educational countermeasures to continue the learning of students. Numerous researchers have investigated the different repercussions of the pandemic in our physiological health, including sleep health in young adults. However, studies have not yet given attention to digital use as a factor affecting sleep health in the context of online learning. This study aims to determine the relationship of online learning and the student's sleep health of high school students in Cebu City. A descriptive-correlational research design was used as an approach for this study. Both online and printed hardcopy of the questionnaire was used to collect data of high school students who are under online learning around Cebu City. Using multiple multivariate regression analysis, we have found a significant relationship between the sexes, physical activity, and the night screen time of high school students in terms of sleep health components; sleep duration, sleep quality, sleep disturbance, sleep latency, and sleep-wake cycle. The prevalence of poor sleep quality from the studentswas high, proving that online classes amidst the pandemic have affected the sleep health of high school students and will dwindle their health if no counteractive measures and proper sleep management were implemented.

Keywords: COVID-19 pandemic, online learning, high school students, sleep health, night screen time, sleep management

About the Authors

¹Cartuciano, Justin Clyde A.

jccartuciano@up@edu.ph

Justin Clyde A. Cartuciano is a Grade 12 student under the STEM strand in the University of the Philippines High School Cebu. During his third and fourth year of junior high school, he was a co-researcher in a study involving the comparison between Chess and Rubik's cube in relation to the mathematical problem-solving skills of high school students and a study involving the relationship between the music preference and the academic performance of high school students. Currently, he is battling a tough war against cancer while working on their research entitled Perceived Effects of Online Learning Towards Students' Sleep Health.

Montaño, Erl John R.

ejmontaño@up.edu.ph

Erl John R. Montaño is a Grade-12 STEM student studying in University of the Philippines High School Cebu. He lives in Nivel Hills, Lahug, Cebu City and was born on October 5, 2003. His hobbies include playing games, and reading digital comics. During his junior high school he and co-researchers were involved in studying about the experiences of newly graduate students in finding their first jobs. Then, he has now shifted into researching the relationship of the current pandemic towards the student's sleep health. His life time goal is to achieve his dream job which is being a Computer Hardware Engineer.

COVID-19 Vaccine: Acceptance and Hesitancy Among Senior High School Students in a University

Dela Torre, S. , Lequigan, J.C. , Lopez, H.K. , Paradero, J. , Revales, C.Z , Tabornal, M.A. , and Turtor, K.C. , *University of Southern Philippines Foundation*

Abstract

The study assessed the COVID-19 vaccine acceptance and hesitancy using the Health Belief Model among the senior high school students. It is conducted through a cross sectional online questionnaire that is adapted from literature and is analyzed through simple percentage and chi-square test. A total of 80 students participated in the study, where the majority had a yes intent (89%) to get vaccinated, with a response of probably yes (50%) being the highest then followed by definitely yes (39%). However, those with no intent (11%) to get vaccinated responded with probably not (10%) and definitely not (1%). Regarding the Health Belief Model, the respondents' attitudes towards the COVID-19 vaccination were observed through the following key components: perception on susceptibility, severity, benefits, barriers, and cues to action. The belief that getting infected with COVID-19 is high and possible while the complications that come along with it are perceived to be very serious. The respondents believe that COVID-19 vaccines decrease the chance of getting the virus all the while concerns of its safety and side effects are very high. Chi-square test revealed perceived barriers and cues to action as the only HBM constructs that are significant predictors for COVID-19 intention. The findings of the HBM, specifically of those that are significant predictors - perceived barriers and cues to action, can be used to formulate strategies such as a reliable and informative health promotion for the COVID-19 vaccine to help boost the vaccine uptake among students.

Keywords: COVID-19 vaccination, Health Belief Model, COVID-19 vaccine intention, vaccine hesitancy, students, Philippines

About the Authors

¹Dela Torre, Stephany A.

Stephany Almario Dela Torre was born in Gorordo Ave, Cebu City. She graduated elementary and high school from Indian Public School, Kuwait and is currently studying in the University of Southern Philippines Foundation for her Senior High School education where she is enrolled in the STEM (Science, Technology, Engineering, and Mathematics). She achieved 2nd place in her schools Poetry competition, and is the Principal of her class - 12 A Medallion, as well as, the one of the councilors of the student council.

²Lequigan, Jean Claude C.

Jean Claude C. Lequigan was born in Perpetual Succor Hospital Gorordo Ave, Cebu City. He graduated elementary in Fatima College of Camiguin Lumad, Mambajao, Camiguin and graduated junior high school in University of Southern Philippines Foundation Salinas Drive, Lahug, Cebu City. He is currently enrolled as a Senior High School STEM (Science, Technology, Engineering and Mathematics) student at the University of Southern Philippines Foundation Lahug Campus. He is a 2nd Placer in Track and Field during USPF Intramural Games 2018-2019.

³Lopez, Harlyn G.

Harlyn Kaye G. Lopez was born in Cebu City. She graduated elementary in Lahug Elementary School and graduated junior high school in St. Paul College Foundation Inc. She is currently enrolled as a Senior High School STEM (Science,

Technology, Engineering and Mathematics) student at the University of Southern Philippines Foundation Lahug Campus. She used to play Badminton during Junior High.

⁴Paradero, Jerilyn I.

Jerilyn I. Paradero was born in Caraga, surigao del norte. She graduated elementary in Plaridel Elementary School and graduated Junior High School at Apas National High School. She is currently enrolled as a Senior High School STEM (Science, Technology, Engineering, and Mathematics) student at the University of Southern Philippines Foundation Lahug Campus. She graduated as an honor student in her junior high school and won 2nd place on a math quiz during the school level contest on October 1, 2019 held at Apas National High School.

⁵Revales, Claire Zeilgeih B.

Claire Zeilgeih B. Revales was born in Kamputhaw Cebu City. She graduated elementary and junior high school in Taptap Integrated School. She is currently enrolled as a Senior High School STEM (Science, Technology, Engineering and Mathematics) student at the University of Southern Philippines Foundation Lahug Campus. She is an honor student from elementary up to senior high school. She also received different awards from organizations she is in. Aside from those awards, she is also an athlete who plays badminton and volleyball.

⁶Tabornal, Melanie Anne L.

Melanie Anne L. Tabornal was born in Bonbon, Cebu City. She graduated elementary in Bonbon Elementary School and graduated junior high school at the University of Southern Philippines Foundation Lahug Campus. She is currently enrolled as a Senior High School STEM (Science, Technology, Engineering, and Mathematics) student at the University of Southern Philippines Foundation Lahug Campus. She is a consistent honor student and a 3rd placer in Scrabble during Intramural Games 2019-2020 held at USPF.

⁷Turtor, Krisha Claire H.

Krisha Claire H. Turtor was born in Mahayahay, Lapu-Lapu City, Cebu. She graduated elementary in Balamban Central Elem. School. and graduated junior high school in USPF. She is currently enrolled as a Senior High School STEM (Science, Technology, Engineering and Mathematics) student at the University of Southern Philippines Foundation Lahug Campus. She was a varsity player for USPF, who tried out for the soccer scholarships in the year 2019-2020 and received a half percent scholarship for her entire 10th grade school year. During the 2020 CESAFI, her team was won the 3rd place. She was elected as vice president of her class of grade 12.

Research Advisers: Joev Keir Lebumfacil, Harold Z. Pancho, Katrina S. Sotes

Segue MediRecords

Kho, C.V.¹, Augusto, J. R.², Amora, E. J.³, Alegado, F. E.⁴, Cinco, J. M.⁵ *Science and Technology Education Center - Senior High School (STEC-SHS)*

Abstract

Cebuano physicians continue to use pen and paper to store patient information. This is expensive—both in an environmental and financial sense. Electronic Medical Records (EMR) adoption in Cebu was not successful by small-scale clinics due to the steep learning curve and expensive subscription fees. The COVID 19 pandemic places large emphasis on the role of data, where lives can be saved or wasted based on the availability of patient information. Currently, physicians are using vulnerable platforms like Facebook to store their patient information. Thus, Segue MediRecords, a mobile EMR solution built on top of Notion was developed. This paper identifies the effectiveness and security of the said EMR solution with the validation by physicians, lawyers, and an industry-standard test called the Systems Usability Scale (SUS).

Segue was developed with the core capability to safely store patient information online with additional smart features. SOC-Type 2 security is secure as validated by Notion's head of cybersecurity, but the senior privacy compliance attorney from One Medical deemed it ineligible for HIPAA-level security; a quick modification. Physicians deemed the features sufficient qualitatively and quantitatively. Collectively, the interviewed physicians likened Segue to that of a dependable companion, but also acknowledged that it was hindered by the generational gap or the digital divide. They recommended Segue to be smart like Google's Care Studio and to give it stronger offline capabilities. The Systems Usability Tests resulted in a favorable score for Segue MediRecords. With physicians giving it an average score of 69 or B-.

Keywords: Electronic Medical Records, Systems Usability Scale, COVID-19, Information and Technology, Health Insurance Portability and Accountability Act (HIPAA)

About the Authors

¹Kho, Carl Vincent L.

carlkho.cvk@gmail.com

Carl is an award-winning and enterprising product designer at Symph with 3+ years of designing and shipping solutions. He is currently a STEM Engineering senior high school student at STEC with high honors. He is aspiring to become a Neural Engineer at the Alphabet Company with his experience as captain of the Philippines Robot Soccer team during the World Robotics Olympiad 2019 at Hungary. Carl is an aggressive advocate of equal access to quality education with his led initiatives One Gadget One Child and Padayun.Ko. In his free time, Carl mentors fellow innovators and participates in hackathons both local and international.

²Augusto, Jamaica C.

Jamaica Ruri C. Augusto is a student at the Science and Technology Education Center (STEC), where she is presently enrolled in the course titled "Science, Technology, Engineering, and Mathematics" (STEM). She completed her high school studies at Marigondon National High School in the academic year 2019-2020 and graduated with Honors. She has previous field work experience with five different research studies, including "Assessment of English Grammar Level Among 10th Grade Students," "I Woke Up Jobless: Struggles of the Unemployed Engineers in Lapu-Lapu City in Time of Pandemic," "Stressors and Stress Coping Strategies on Online Learning Among Senior High

School Students During COVID-19," "Kuan Kanang: Ang Pagsusuri ng mga Bisayang Tagapuno," and "Seque Medirecords," a recent study she's been working on.

³Amora, Ellah Jean C.

Ellah Jean C. Amora is a student at the Science and Technology Education Center (STEC), she is taking up the Academic Track and Science, Technology, Engineering, and Mathematics (STEM) Strand. She completed her junior high school studies at STEC Junior High School in the academic year 2019-2020 and graduated With Honors. She has previous field work experience with five different research studies: The Inhibitory Effects Of *Ulva Reticulata* Ethanolic Extracts To *Klebsiella Pneumoniae* (2018), Project LABANG; Pedestrian Light System (2019), Burned Journal; the Struggles of crematorium workers in funeral homes (2021), and Segue MediRecords (2022). She is currently the Supreme Student Government (SSG) President at STEC-SHS.

⁴Alegado, Feljohn Earl B.

Feljohn Earl B. Alegado is currently enrolled in Science and Technology Education Center (STEC), pursuing the course Science, Technology, Engineering, and Mathematics (STEM). He graduated with Honors from Marigondon National High School in the school year of 2019-2020.

⁵Cinco, John Michael P.

John Michael Cinco is currently enrolled in Science and Technology Education Center (STEC), pursuing the course Science, Technology, Engineering, and Mathematics (STEM). He graduated with High honors from San Roque College de Cebu in the school year of 2019-2020.

Research Advisers: Dr. Bryant C. Acar, Dr. Allan Adem, Ms. Ruby Armada

Addressing COVID-19 Hesitancy and Misconceptions in Ibabao Cordova Through Chatbot Development

Acedillo, J. M. C.¹, Melchor, D.R. E.² *University of the Philippines High School Cebu*

Abstract

With the consistent increase of COVID-19 cases, vaccines have been created to achieve herd immunity. However, vaccine hesitancy and misconceptions remain prevalent. Thus, this research aims to develop a chatbot to address COVID-19 vaccine hesitancy and misconceptions in Barangay Ibabao, Cordova. Using an adapted questionnaire, 148 residents were surveyed to determine their knowledge, attitude, practices, concerns, and anxiety toward the COVID-19 vaccine. Findings have shown that residents of Barangay Ibabao, Cordova have low overall knowledge regarding the COVID-19 vaccine, whereas moderately high to high levels of attitude, practices, awareness, concerns, and anxiety towards the COVID-19 vaccine. Age plays a significant role in the knowledge, attitude, practices, and concerns towards the COVID-19 vaccine. Along with educational attainment, it also has significant effects on the participants' attitudes towards the COVID-19 vaccine. On the other hand, employment status and age can have an impact on the practices they adopt concerning COVID-19. Therefore, in addressing the misconceptions and vaccine hesitancy, the chatbot should be focused on improving the knowledge of the participants. Technical and end-user evaluations suggest that the chatbot can deliver the necessary information about COVID-19 vaccination. As the data gathered were from Barangay Ibabao, it is recommended that the chatbot be deployed in the same place and examine its influence on the perception of the residents.

Keywords: vaccine acceptance, pandemic, KAPC, vaccine, vaccine awareness

About the Authors

¹Acedillo, Jose Marie, C

jcacedillo1@up.edu.ph

Jose Marie C. Acedillo is a Grade 12 student from UP High School Cebu. He is currently studying under the STEM strand. Currently, he has relatives not yet vaccinated, so he wants to know what reasons they hesitate to take the COVID-19 vaccine.

²Melchor, Dan Randolf, E.

melchor@up.edu.ph

Dan Randolf E. Melchor is a Grade 12 student under the Science, Technology, Engineering, Mathematics (STEM) strand from the University of the Philippines-Cebu High School.

Research Adviser: Sean L. Policarpio

Souvenir Purchase Motivations and Product Attribute Preferences among Arts and Design Students amidst the Pandemic: Basis for Product Development

Baronia, N.K.¹, Daño, J.², Mingo, A. B.³, Miones, D. K.⁴, Gagani, F.⁵ *University of San Carlos South School*

Abstract

Despite the onslaught of COVID-19, people still travel and tourism can only thrive further upon its end. Souvenir shopping has long been integral to tourism business and one's travel experience. This quantitative non-experimental descriptive correlational study aimed to determine the relationship between souvenir purchase motivations and product attribute preferences among the randomly selected 50 Grade 12 Arts and Design students in the University of San Carlos South Campus for the school year 2021-2022. Two adapted and reliable Likert-type survey tools were used to collect data. Results revealed that students acquire souvenirs for a variety of reasons before making their decision. Students also valued portability, aesthetic value, and authenticity of an item when looking for a souvenir. Researchers found out that there is a high positive correlation between souvenir purchase motivations and product attribute preferences and the relationship between the two variables is found to be significant, r(48) = 0.547, p < 0.05). This means that students who go on trips have distinct motivations and it affects their decision-making towards purchasing souvenir items. This study recommends that the variables be tested in more settings post-pandemic, as travel restrictions ease worldwide.

Keywords: correlation, motivations, memorabilia, vacation

About the Authors

¹Baronia, Nadine Kiandra, B.

19104629@usc.edu.ph

Nadine Kiandra Baranggan Baronia is a Grade 12 Arts and Design student at the University of San Carlos - South Campus. She graduated as salutatorian of her batch in junior high school at the University of Cebu Lapu-Lapu and Mandaue, and has consistently made it to the Director's List in USC. Achievements under Nadine's belt include 4 years of playing

with the Cebu Philharmonic Orchestra, a Grade 5 Distinction Award for Violin Performance from the Associated Board of the Royal Schools of Music, and a NC2 Certification in Technical Drafting from TESDA. She enjoys watching anime in her spare time.

²Daño, Julia, S.

Julia Salve Daño is a Grade 12 Senior High School student of the Arts and Design track from the University of San Carlos Basic Education Department South Campus. During her Junior High School days, she participated in her school's competition that revolved around art. She is a consistent volunteer of the community services, e.g. food donations, clean up drive, and recycling programs, held by her school and her barangay. She also enjoys learning more about animation and cinema, which prompted her to pursue cinematography as her career path. She aims to inspire and uplift the younger generation through animation.

³Mingo, Athia Bless, R.

Athia Bless Robledo Mingo, a student from the University of San Carlos studying in the Arts and Design course, is currently living in Cebu. When she was in junior high at her old school, Talamban National High School, together with her classmates, they won school competitions like jazz chant and cheer dance. For these reasons, she pursued art and became a student at USC, which contributed to honing her skills. She's interested in the arts, mainly types of art and their contribution to society. She strives to become a famous interior designer with innovative ideas that will be known globally.

⁴Miones, Diane Kirsdy, Y.

Diane Kirsdy Yap Miones is an Arts and Design student in The University of San Carlos. But before that, she was a Junior Highschool Graduate and a Futsal varsity at her previous school, the University of San Jose Recoletos. She was her year level's badminton player during her time at Saint Thomas Aquinas School. She was a volunteer at the Talisay for Leni Volunteer Center during election campaign season. She also reads and collects books related to psychology. She aspires on becoming a psychiatrist, since she takes interest on the human thinking. She is currently residing at Talisay City, Cebu.

Research Adviser: Gagani, Flordeliza, S. LPT, M.A., Ph.D. RE

Flordeliza Soroño-Gagani is a faculty of the University of San Carlos BED, Senior High School South School, teaching General Mathematics, Statistics and Probability, and Research to Humanities and Social Sciences, and Arts and Design students. She's presently a candidate under the degree - Doctor of Philosophy in Education major in Research and Evaluation (Ph.D. – RE) at Cebu Normal University. She attended and presented papers in local, national and international conferences; has published and cited research papers in international peer- refereed journals; and a PEAC national trainer awardee in General Mathematics. Presently, she is the HumSS and AD Mathematics and Research Coordinator.

PLENARY ABSTRACTS

Day 2: 01 June 2022 (Wednesday)



Theme: Fostering Research Collaboration in the New Normal

Household Characteristics and Academic Performance: A Correlational Study

Laus, S.A.A., Lomongo, C.V., Nellas, E. J., Trazona, A. M. University of the Philippines High School Cebu

Abstract

This descriptive correlational study investigates if the student's household characteristics affect their academic performance during remote learning. A total of 191 students from a public high school in Cebu City answered the survey questionnaire. Using the Chi-square test for independence and Fisher's exact test to examine the correlations between variables, it was determined that there is no significant relationship between household characteristics (size, structure, monthly income, access to gadget and internet, and ownership of dwelling), the number of hours spent on household responsibilities and academic performance. Meanwhile, only the sex of the household head has a significant relationship with the student's academic performance. Therefore, the researchers recommend that a similar study be conducted in a more heterogeneous population and look into factors that motivate the students to perform well in school despite the lack of resources.

Keywords: Remote Learning, Household chores, Human Capital Theory, Social Capital Theory, Cultural Capital Theory

About the Authors

¹Laus, Shana Ann-gela A. salaus@up.edu.ph

Shana Ann-gela A. Laus is a current Grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

²Lomongo, Chelsea V.

Chelsea V. Lomongo is a current Grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

³Nellas, Earl James

Earl James Nellas is a current Grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

⁴Arfil M, Trazona

Arfil M, Trazona is a current Grade 11 STEM student at the University of the Philippines High School Cebu.

Research Adviser: Purita T. Baltazar

A Comparison of Children's, Adolescents', and Adults' Gender Labeling of Toys

Cañeda, J.A., Fernandez, E.M., Rosales, L.P., Satinitigan, S.T., University of the Philippines High School Cebu

Abstract

Out of the multiple dimensions of gender labeling, designating an object's rightful user according to gender is the most prevalent. When children, adolescents, and adults grow in a community governed by these gender stereotypes, they are more likely to adopt and apply the same beliefs as they get older. In this study, the gender labeling of children, adolescents, and adults were compared. The influence of household and school culture on the gender labeling of toys was also determined. A total of 90 randomly selected respondents answered a modified 20 item questionnaire. The results showed that children, adolescents, and adults traditionally gender label toys. The research found that life stages and household culture are not factors in the gender labeling of toys. However, school culture is a factor in the labeling of toys. Adults should model behavior that contradicts gender stereotypes. The Department of Education should train teachers on gender equality and sensitivity. They should be able to challenge gender stereotypes in learning materials. The learning materials provided by DepEd should be reassessed. It is advised that future research in relation to gender labeling of toys look into the influence of the media, stores, peers, teachers, and other cultures.

Keywords: gender labeling, household culture, school culture, life stages

About the Authors

¹C**añeda, J.A** jacaneda@up.edu.ph

Justine Jade A. Cañeda is a current Grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

Fernandez, Edrech Nina emfernadez3@up.edu.ph

Edrech Nina M. Fernadez is a current Grade 11 STEM student at the University of the Philippines High School Cebu.

³Rosales, Lavender Rose P. lprosales@up.edu.ph

Lavender Rose P. Rosales is a current Grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

⁴**Satinitigan, Shaira T.** stsatinitigan@up.edu.ph

Shaira T. Satinitigan is a current Grade 11 STEM student at the University of the Philippines High School Cebu.

Research Adviser: Purita T. Baltazar

Plenary 8

Challenges and Prospects of the Restaurant Business in the New Normal: A Case of Cebu City

Balmori, J.C.., and Obra, L.D. Liniversity of the Philippines High School Cebu

Abstract

The restaurant business was heavily affected by the COVID-19 pandemic. Government and health protocols resulted in economic decline that led to a massive impact on its operations, forcing restaurants and eateries to innovate and adjust their services to keep their business afloat in the new normal. Fifty-seven restaurant managers and owners in one of the biggest malls in Cebu City were interviewed about their experiences of running the business during the pandemic. Most restaurants had a decrease in their average monthly sales and number of employees. Notably, restaurants had to balance their finances which led to an apparent increase in the prices of their goods and services. They are also challenged by a decrease in customer dine-ins that heightened the operations of delivery services and the development of new operational strategies. However, when the number of vaccinated people improved and health restrictions were lifted, a significant improvement in dine-sales was observed, enabling them to expand operations and increase the number of employees. However, Restaurants are also expected to continue adjusting their operational strategies, expand online deliveries, and enhance marketing strategies to cope with the new normal.

Keywords: *COVID-19*, restaurant industry, dine-in, food delivery

About the Authors

¹Balmori, Jeremiah Keziah C.

jcbalmori1@up.edu.ph

Jeremiah Keziah C. Balmori is a Grade 12 student from the Humanities and Social Sciences (HUMSS) strand at the University of the Philippines High School Cebu. When she was in junior high, together with her teammates, they ventured about understanding the preferences of Filipino consumers towards online and in-store shopping. Her research interest revolves around the business industry. Now in her final year of senior high school, together with her research partner investigated the challenges and prospects of the restaurant industry in Cebu City. Aside from that, she also takes an interest in education, health, ecology, and the environment.

²Obra, Lianne D.

ldobra@up.edu.ph.

Lianne D. Obra is a Grade 12 Humanities and Social Sciences student at the University of the Philippines High School Cebu. As a student interested in the social sciences, she aims to understand the different situations that happen in our society. In her junior high school research, Lianne, along with her classmates, examined the correlation between junior high school students' mobile phone usage and academic performance in an institution in Cebu City. Now in her final year of senior high school, she and her research partner explore the challenges and prospects of the restaurant industry in Cebu City. Other than these topics, she is also interested in psychology, sociology, and business.

Research Adviser: Magnolia A. Laus

PARALLEL SESSIONS ABSTRACTS

Day 2: 01 June 2022 (Wednesday)



Theme: Fostering Research Collaboration in the New Normal

Online Learning Readiness and Perception of Online Learning in Relation to Academic Performance

Jumao-as, C.D.¹; Roxas, R.R.L.²; Saquin, V.C.³; Tausa, K.S.M.⁴ *University of the Philippines High School Cebu*

Abstract

The purpose of this study is to convey different possible perceptions of students in different grade levels towards online learning, and to determine possible effects towards the students' academic performance. Specifically, this research aims to determine the online learning readiness of the students in relation to their perception of online learning and academic performance. To collect data on the students' online learning readiness and perception towards online learning, a descriptive survey questionnaire was given to the students from a university in Cebu City that used online learning as the alternative for face to face learning due to the pandemic. The Fisher's exact test was used as a statistical approach to test the correlation between variables. The results show that the overall average level of online learning readiness of the students is 3.46 which is a ready level of online learning readiness. The overall average level of perception on online learning is 2.4, which is a negative level of online learning. Results also show that online learning readiness can affect the student's perception towards online learning and their academic performance. A student's grade level can also affect their level of online learning readiness. Also, the student's perception towards online learning and their academic performance can be affected by each other.

Keywords: online, perception, readiness, academic performance

About the Authors

Jumao-as, Cesar D. cdjumaoas@up.edu.ph

Cesar D. Jumao-as II is a Grade 11-STEM student of the University of the Philippines High School Cebu. His recent research focuses on online learning readiness.

Roxas, Regine Rachel L. rlroxas2@up.edu.ph

Regine Rachel L. Roxas is a Grade 11-STEM student of the University of the Philippines High School Cebu. Her recent research deals with online learning readiness.

³Saquin, Vaughn Coolette vsaquin@up.edu.ph

Vaughn Coolette Saquin is a Grade 11-HUMSS/ABM student of the University of the Philippines High School Cebu. Her recent research focuses on online learning readiness.

Tausa, Kendra Shy M. kmtausa@up.edu.ph

Kendra Shy M. Tausa is a Grade 11-STEM student of the University of the Philippines High School Cebu. Her recent research deals with online learning readiness.

Research Adviser: Purita T. Baltazar

Understanding the Experiences of Parents as Modular Instructors of Elementary Students in a Private School in Hinunangan, South Leyte During the Pandemic

Segovia, S.K.B.¹; Lopez, F.J.²; Elizalde, K.P.³; Refuerzo, J.J.Y.⁴ *Bethel International School*

Abstract

The COVID-19 pandemic disrupted traditionally organized classes, compelling educational institutions to adapt to remote learning systems. In response to this emergency, printed learning materials called modules were highly used in the Philippines and was called modular learning modality. This was primarily implemented by public schools, while private schools were given an option. This study examined parents' experiences as learning instructors while implementing the modular learning modality to their first and fourth-grade children in a private school during the pandemic. Using a qualitative research methodology with a phenomenological research design, eight participants were selected through a purposive sampling technique, and data was gathered through semi-structured interviews. The results showed that several participants realized the significance of their roles as teachers or learning instructors to their children; hence, they strategized methods to execute the modality effectively at home despite certain limitations and challenges. Having realized their significance in this situation, they also reflected on the equally important presence and role that teachers play on the learning process of their children, especially the observed and felt gap that the pandemic has made in the absence of teachers in the modular learning modality. The parents' views and feelings about modular learning depended on their personal experiences when implementing the modality with their children. The parents who could adjust to the set-up regarded modular learning positively and meant it as a "bridge" to education. Meanwhile, those who experienced difficulties considered the modality negatively and meant modular learning as an "additional task" or "burden" to them.

Keywords: education, modular learning for elementary students, remote distance learning, parents as modular instructors, pandemic

About the Authors

Segovia, Simone Kaye B. simone_segovia@bethel.edu.ph

Simone Kaye B. Segovia is a senior high school student of Bethel International School. Aside from her recent research that focuses on the experiences of parents as modular instructors, her research interests include education, modular learning, and online remote learning.

Lopez, Flloyd Johann flloyd_lopez@bethel.edu.ph

Flloyd Johann Lopez is a senior high school student of Bethel International School. His recent research focuses on the experiences of parents as modular instructors.

Kiandrei P. Elizalde is a senior high school student of Bethel International School. His recent research focuses on the experiences of parents as modular instructors.

Justin John Y. Refuerzo is a senior high school student of Bethel International School. His recent research focuses on the experiences of parents as modular instructors.

Research Adviser: Sandra D. Solis

Relationship between Parental Involvement and Academic Performance of Children in the Remote Learning Setup

Kwong, R.C.¹; Iglesias, E.F.²; Rondina, R.S.³ *University of the Philippines High School Cebu*

Abstract

Education begins at birth and continues throughout life. During this process, the school and family are the major influence on a child's development, alongside the community to support these efforts. This correlational study aimed to identify and investigate the relationship between the different types of parental involvement to the academic performance of students during a remote learning set-up. It utilized a 36-item survey questionnaire to obtain the level of parental involvement and the general weighted average of students from S.Y. 2020-2021 to measure their academic performance. The respondents were selected Grade 10 students from a public high school in Cebu City. To determine the relationship between the two variables, the Fisher's Exact test was used. It was found that the majority of the students, regardless of their GWA, scored high levels of parental involvement in parenting, communicating, volunteering, learning at home, and decision-making; except for the collaboration with the community dimension. Thus, the study concludes that parental involvement and academic performance of children have no significant relationship. The reason for this result may point to the new educational set-up the students are partaking in and their grade level as the engagements that fulfill their needs to stay competent and independent varies. This implies that the degree and practices of involvement should align with the students' learning style. It is recommended that future researchers expand the number and variety of high school students studying online to obtain more accurate data, considering the various factors that affect the students' developmental process.

Keywords: Joyce Epstein's framework, parental involvement, collaboration, academic performance, high school

About the Authors

Kwong, Roxanne C. rckwong@up.edu.ph

Roxanne C. Kwong is a Grade 10 student at the University of the Philippines High school Cebu. She was a consistent honor student from primary school up to the present. She has

³**Elizalde, Kiandrei P.** *kian elizalde@bethel.edu.ph*

⁴**Refuerzo, Justin John Y.** *jj_refuerzo@bethel.edu.ph*

participated in writing competitions like journalism contests and essay writing during her elementary years. Her current research focuses on the relationship between parental involvement and the academic performance of children during a remote learning setup. She plans to take the STEM strand once she is in senior high school.

²**Iglesias, Eunice F.** *efiglesias@up.edu.ph*

Eunice F. Iglesias is a 10th grade student of the University of the Philippines High School Cebu. Her current research deals with the relationship between parental involvement and academic performance of children during the remote learning set-up. However, prior to this, she has experienced participating in science investigatory project congresses during her elementary years, placing 1st during the district and division level alongside her team. With her career interests revolving in communicating with people, she aims to take the ABM/HUMSS strand in the future.

³**Rondina, Rey S.** rsrondina@up.edu.ph

Rey S. Rondina is a 10th grade student of the University of the Philippines Cebu. He finished his primary school at Lahug Elementary school with honors. He joined many school events, like MTAP and Boy Scout in his elementary school. In his secondary, he still joins some school events. His desire is to study in the best university where he hopes to graduate as a marine engineer.

Research Adviser: Ricky S. Salem

Parallel Session 7

Comparative Financial Analysis of Selected Publicly Listed Corporations of the Chemical Industry in the Philippines

Huan, A.M.A.¹; Alo, J.M.D.²; Altamero, J.P.³; Dolera, A.Z.⁴; Enriquez, A.M.C.⁵; Tan, S.M.T.⁶ *University of San Carlos South School*

Abstract

The study is entitled "A Comparative Financial Analysis of Selected Publicly Listed Corporations of the Chemical Industry in the Philippines". Its main purpose is to compare the financial capabilities and aspects of five publicly listed chemical corporations in the Philippines namely, Chemical Industries of the Philippines, Inc., Euro-Med Laboratories Philippines, Inc., LMG Corporation, Mabuhay Vinyl Corporation, and Pryce Corporation in terms of their basic profiles, growth rate, and financial capacity. The study utilized purposive sampling in choosing the sample and secondary data which were extracted from the Securities and Exchange Commission (SEC), Koyfin, PSE Edge, and the companies' respective websites. The research design is a quantitative descriptive analysis of the ten-year period financial statements anchored in the Financial Ratio Theory and Financial Ratios Categoric Framework. The findings show that each company has its own strengths and weaknesses in terms of financial position and performance. However, among the five companies under study, the Mabuhay Vinyl Corporation manifests the most stable financial performance from 2011 to 2020. Hence, buying the stock of Mabuhay Vinyl Corporation is highly recommended to the interested investors.

Keywords: comparative financial analysis, financial ratios, growth rates, chemical corporations, chemical industry, Philippines

About the Authors

¹**Huan, Ashley Marie A.** 20100445@usc.edu.ph

Ashley Marie A. Huan is a Grade 12 Accountancy, Business, and Management student from the University of San Carlos. She graduated her elementary and junior high school from Sacred Heart School - Hijas de Jesus. She is currently planning to take the course Bachelor of Science in Accountancy for college at the University of San Carlos as she discovered her passion for dealing with numbers. Together with her groupmates, she started writing this paper last February 2022 and completed it last May 2022.

²Alo, Julea Mae D.

Julea Mae D. Alo attends the University of San Carlos and is in 12th Grade - Accounting, Business, and Management strand. Academia de San Isidro Labrador in Talamban, Cebu City was where she attended elementary and junior high school. She is going to enroll in a college course at the University of San Carlos to pursue Bachelor of Science in Accounting after discovering her passion, seeing her parents as accountants. After studying college, she aims to take part and pass the Certified Public Accountant Licensure Exam.

³Altamero, Jezel P.

Jezel P. Altamero is a University of San Carlos Grade 12 Accountancy, Business, and Management student. She graduated from elementary and junior high school at Sae Young Christian School. She is planning to enroll in the University of San Carlos' Bachelor of Science in Accountancy program since she has developed an interest in the subject. She plans to take the Certified Public Accountant Licensure Exam and then proceeds to study law after she finishes college. After graduating and becoming a CPA lawyer, she will start her own business.

⁴Dolera, Arah Z.

Arah Z. Dolera studies at the University of San Carlos as a senior high school Grade 12 student in Accountancy, Business, and Management strand. She graduated from elementary school at General Luna Central Elementary School, SSC, and Siargao National Science High School for her junior high school. She intends to pursue Bachelor of Science in Accounting at the University of San Carlos after discovering her passion in this field.

Enriquez, Alexa Miel C.

Alexa Miel C. Enriquez is a senior high school student specifically in the 12th grade of Accountancy, Business, and Management (ABM) strand at the University of San Carlos. She graduated elementary from Carmen Central Elementary School and Academia de San Agustin (ASA) in Carmen, Cebu for her junior high school. She is planning to take the course Bachelor of Science in Accountancy at the University of San Carlos (USC) after she found out that she is passionate and interested in numbers.

°Tan, Sophia Margaret T.

Sophia Margaret T. Tan currently attends the University of San Carlos as a Grade 12 student under the Accountancy, Business, and Management strand. She attended and graduated her elementary and junior high school from Bethany Christian School. She is planning to enroll in Bachelor of Science in Accountancy at the University of San Carlos.

Research Adviser: Kenneth C. Repunte

Business Operation Strategies of Small and Medium Business Enterprises During the COVID-19 Pandemic in Hamugaway, Cordova, Cebu

Macan, N.S.¹; Arce, C.G.²; Patalinghug, A.S.³; Gaut, M.K.G.⁴ Babag National High School

Abstract

The covid-19 pandemic changed the business setup of small and medium business enterprises. This study determined the business operation strategies of small and medium business enterprises during the Covid-19 pandemic in Hamugaway, Cordova, Cebu. Specifically, it investigated the external and internal business operation strategies, encountered challenges, and coping mechanisms. This study employed a quantitativequalitative research design with 10 business owners operating in Hamugaway, Cordova, Cebu as respondents using a Likert-scale and open-ended interview questionnaire which the data were analyzed using mean standard deviation, and thematic content analysis. The findings found that the external business operation strategies are providing an attractive and safe ambiance, good quality and clean products, a broad range of products provided, and affordable prices. The internal business operation strategies are special discounts for loyal customers and special price offers on occasions and effective workers with good communication skills. The encountered challenges are fewer customers visited and lack of supply for their business operations and they employed online marketing in social media to resolve these challenges. Therefore, it is recommended to improve their business plan by highlighting more internal business operation strategies.

Keywords: business operation strategies, business enterprise, hamugaway

About the Authors

Macan, Nicole Sheena macannicolesheena@gmail.com

Nicole Sheena Macan is a Grade 12 Accountancy, Business and Management (ABM) student of Babag National High School. Her research experiences talked about Covid-19 quarantine activities of selected teenagers in Catarman, Cordova, Cebu and effects of social media on the political stands of senior high school students.

²Arce, Charlene G.

Charlene G. Arce is a Grade 12 Accountancy, Business and Management (ABM) student of Babag National High School. Her research experiences talked about Covid-19 quarantine activities of selected teenagers in Catarman, Cordova, Cebu and effects of modular learning to the mental health of senior high school students.

³Patalinghug, Aimie S.

Aimie S. Patalinghug is a Grade 12 Accountancy, Business and Management (ABM) student of Babag National High School. Her research experiences talked about Covid-19 quarantine activities of selected teenagers in Catarman, Cordova, Cebu and emotional and psychological effects of pandemic of Babag National Senior High School students.

⁴Gaut, Mary Kris G.

Mary Kris G. Gaut is a Grade 12 Accountancy, Business and Management (ABM) student of Babag National High School. Her research experiences talked about Covid-19 quarantine activities of selected teenagers in Catarman, Cordova, Cebu and emotional and psychological effects of pandemic of Babag National Senior High School students.

Research Adviser: Vonn Clyde C. Nunez

An Assessment on the Preferred Management Styles Towards Handling the Employees in a Medium Salon Industry

Lopez, J.M.¹; Bernat, M.G.²; Campo, B.P.³; Gonzalodo, A.M.⁴; Ming, N.S.⁵; Sinadjan, R.B.⁶ *University of San Carlos South School*

Abstract

The management style used among managers is pivotal in shaping the work environment culture and the survival of a business entity. This study aimed to determine which among the four management styles (Coercive, Participative, Delegative, and Charismatic) is preferred by the managers of medium-sized salon entities within Cebu City that used a quantitative non- experimental descriptive research design supported by a qualitative data. A purposive sampling technique was employed in selecting the 34 managers. Data were gathered using a survey questionnaire with a reliability of coefficient of 0.94. Findings revealed that the preferred management style among managers in handling the employees in a medium salon business is the charismatic management style, with an overall rating of very high $(\bar{x} = 5, SD = 0.13)$. Furthermore, salon managers manifested calmness and effective communication in handling customer complaints and poor time management among the employees. This implies that a managerial practice emphasizing emotional considerations and social bonds with the subordinates can create a better working environment. Leader-follower relationship dynamics ought to be grounded by effective communication, understanding, and compassion between managers and employees.

Keywords: management styles, Philippine salon, coercive management, participative management, delegative management, charismatic management

About the Author

Lopez, Julianna Margaruita E. 20101275@usc.edu.ph

Julianna Margaruita Lopez is a Grade 12 senior high school student, studying the strand Accountancy, Business and Management at the University of San Carlos, Cebu City, Philippines. She previously studied in Sacred Heart School – Hijas De Jesus from elementary to Grade 9, and shorty transferred to Victory Christian International School in Grade 10, where she graduated high school. Her interest in the business world led her to take Bachelor of Science in Entrepreneurship for her college course at the University of San Carlos (USC).

²Bernat, Marianne Grace S.

Marianne Grace S. Bernat is a Grade 12 senior high school student, studying the strand Accountancy, Business and Management at the University of San Carlos, Cebu City. She previously studied at Little Angels Montessori School from elementary to grade 6 and transferred to the University of San Carlos from Grade 7 to Grade 10, where she graduated high school. She thinks of pursuing Bachelor of Science in Business Administration Major in Marketing Management at the University of San Carlos.

³Campo, Beatriz Portia N.

Beatriz Portia Campo is a Grade 12 senior high school student, studying the strand Accountancy, Business and Management at the University of San Carlos, Cebu City, Philippines. She graduated elementary and junior high school from the University of San Carlos - South Campus. She is planning to take Bachelor of Science in Business Management, major in Marketing.

⁴Gonzalodo, Anexjia May R.

Anexjia May R. Gonzalodo is a Grade 12 senior high school student, currently studying the Accountancy, Business and Management Strand at the University of San Carlos, South Campus, Cebu City, Philippines. She previously studied at Living Stones International School in Bacolod, Negros from Grade 1 to 6, transferred to South Hills International School for Grade 7 to 9, transferred to the University of San Carlos, North Campus for Grade 10, and lastly transferred to the University of San Carlos, South Campus for Grade 11 and 12. She is planning to pursue Bachelor of Science in Chemical Engineering or Bachelor of Science in Psychology at the University of San Carlos.

Ming, Natalie Shanese

Natalie Shanese D. Ming is a Grade 12 senior high school student, studying the strand Accountancy, Business and Management at the University of San Carlos, Cebu City. She previously studied at Three H Redwood Academy from pre-school to grade 6 and transferred to the University of San Carlos from Grade 7 to Grade 10, where she completed junior high school. She intends to pursue Bachelor of Science in Business Administration - Major in Marketing for her college course, but she also has the option to pursue Bachelor of Science in Entrepreneurship.

⁶Sinadjan, Rina Bianca T.

Rina Bianca Sinadjan is a Grade 12 senior high school student, currently studying the Accountancy, Business and Management Strand at the University of San Carlos, South Campus, Cebu City, Philippines. She previously studied at the University of San Carlos - North Campus starting from her kindergarten to junior high school days, and then transferred to the University of San Carlos - South Campus for Grade 11 and 12. She is planning to pursue Bachelor of Science in Business Administration - Major in Marketing Management at the University of San Carlos for college.

Research Adviser: Yvette M., Villarta, Ed.D.

Parallel Session 8

Being an Advocate: Mactan-Cebu International Airport Healthcare Workers' Lived Experiences Amidst COVID-19

Antepuesto, A.E.G. 1 , Flores, J.M.T. 2 , Gonzales, D.R.V. 3 , Refugio, M.A.R. 4 , Taparra, K.B.G. 5 and Torrejos, A.V.S. 6 *University of San Carlos South School*

Abstract

Amidst the global health crisis due to the Coronavirus (COVID-19) disease, emphasis is placed on prioritizing the well-being of frontline healthcare workers. This phenomenological study aimed to understand the lived experiences of frontline healthcare workers at the Mactan-Cebu International Airport amidst the COVID-19 pandemic. Five healthcare workers were chosen through purposive sampling. Data collection was done through online interviews wherein a semi-structured, open-ended type questionnaire was used. The participants' responses were transcribed, coded, and analyzed using Colaizzi's method. Six major themes emerged from the analysis, namely: "Caring for the Family," "Fear of Spreading the Disease," "Dealing with Changes in the Workplace and in the Community," "Encouragement and Camaraderie among Co-Workers," "Homesickness and Isolation," and "Coping through Meditation and

Prayer." The frontline healthcare workers experienced problems involving the fear of COVID-19 transmission, homesickness, and isolation. However, they managed to cope with the changes in the workplace and in the community by drawing strength from family members and co-workers and by dedicating time for prayer and meditation. The researchers recommend that healthcare workers spend time for prayer, meditation, and bonding with their families and friends to avoid burnout. To assist the healthcare workers, the Philippine government may implement laws addressing the COVID-19 pandemic in a stricter manner. The general public may express support through letters, donations, or even through adherence to safety protocols. The researchers suggest that this study be applied to healthcare institutions not included in the scope of this study, such as public hospitals in other regions of the Philippines.

Keywords: Phenomenology, Healthcare Workers, COVID-19, Mactan-Cebu Airport

About the Authors

¹Antepuesto, Athena Ella G.

7303091@usc.edu.ph

Athena Ella G. Antepuesto is a Grade 12 Humanities and Social Sciences student at the University of San Carlos - South Campus. She currently serves as the editor-in-chief of the Southern Chronicles, the official school publication of the USC Senior High - South School. She is a two-time champion in the Copyreading and Headline Writing Category of the Central Visayas Regional Schools Press Conference. In 2019, she received the Student of Excellence Award from the Department of Education for being a bronze medalist in the 9th World Mathematics Team Championship held in Beijing, China. Her interests include journalism and music composition.

²Flores, Juliana Mae T.

Juliana Mae T. Flores is currently a senior high school student of the University of San Carlos - South Campus. She is a Grade 12 Humanities and Social Sciences student finishing her semester in the school year 2021 to 2022. She was a Philippine Army Citizenship Advancement Training (PA-CAT) Cadette Officer of the First Aid Unit during her junior high school years. Equity for all is a concept she firmly follows. She aspires to take on a career in line with her interests in the humanities and social sciences. She also plans to take a Bachelor's Degree in Psychology for her college course.

³Gonzales, Darren Romie V.

Darren Romie V. Gonzales is a Grade 12 Humanities and Social Sciences student at the University of San Carlos - South Campus. He currently serves as the Deputy Operations Director at goLead Philippines, the official youth leadership collective of the United Young Leader's Coalition, a SEC-registered non-government organization established in 2017. He was formerly the Operations Director of Junior GoLead, goLead PH's sister organization. He was also formerly the Legal and Compliance Lead of ISOG Carolinian, a political party in their school. He plans on taking a Bachelor of Science in Psychology degree at the University of San Carlos.

⁴Refugio, Mikka Angela R.

Mikka Angela R. Refugio is a Grade 12 Humanities and Social Sciences student at the University of San Carlos Senior High - South School. She currently serves as the Assistant Secretary of DASIG Party SHS, the Senior High School Chapter of the Determined and Ardent Students Inspiring Greatness Party, a Political Party in her school established in 2018. She is currently a member of the USC Debate Society. She then plans on taking a Bachelor of Arts in Political Science, Bachelor of Arts in History, and Bachelor of Arts in Psychology degree as soon as she graduates from Senior High School.

⁵Taparra, Khrystainna Blyle G.

Khrystainna Blyle G. Taparra is a graduating Senior High School student at the University of San Carlos - South Campus from Cebu City taking the Humanities and Social Sciences Strand. She currently serves as the Assistant Secretary of the official school publication of the USC Senior High - South School. Her main hobby is editing, and her skills garnered praise among professionals in the school. After graduation, she intends to pursue a degree in Bachelor of Secondary Education in English or Bachelor of Special Needs Education, specializing in Early Childhood Education-Montessori Education.

⁶Torrejos, Anne Valerie S.

Anne Valerie S. Torrejos was born in Cebu City, Cebu. She is a graduating Senior High School student of the University of San Carlos who is taking the Humanities and Social Sciences (HUMSS) strand. She plans to take up a Bachelor of Science in Psychology degree in college. She competed in the Regional Schools Press Conference 2015 where she discovered her passion for writing

Research Advisers: Flordeliza S. Gagani, Gino P. Paradela

Willingness to Get Vaccinated Against COVID-19 and Attitude Toward COVID-19 Among Grade 12 Humanities and Social Sciences Students: A Correlational Study

Antepuesto, A.E.G. ¹, Coja, D.A. ², Comeros, T.C.C. ³, Flores, J.M.T. ⁴, Guanteri, V.M.T. ⁵, and Torrejos, A.V.S. ⁶ *University of San Carlos South School*

Abstract

The varying perspectives about COVID-19 health protocols continue to impact the collective effort to reduce COVID-19 transmission. Hence, this descriptive-correlational study was conducted to determine if a significant relationship exists between the willingness to get vaccinated against COVID-19 and the attitude toward COVID-19 among sixty randomly selected Grade 12 Humanities and Social Sciences students of the University of San Carlos - South Campus. The collection of data was done online through 5-point adapted Likert-type survey questionnaires. The results showed that the level of willingness to get vaccinated against COVID-19 is rated high ($\bar{x} = 3.79$, SD = .98), while the level of attitude toward COVID-19 is rated very high ($\bar{x} = 4.36$, SD = .75). Furthermore, the researchers found that the relationship between the two variables is significant, r(58) = .48, p = .000104, p < .05 at $\alpha = .05$. Therefore the null hypothesis is rejected, and the researchers conclude that there is a weakly positive correlation (r = .48)between the levels of willingness to get vaccinated against COVID-19 and the attitude toward COVID-19 among the students. The researchers recommend that this study be extended to educational institutions and levels not included within the scope of this study, such as with Junior High School students and with state universities in other regions. The researchers also recommend that the COVID-19 health guidelines be followed by the general public and that more programs be implemented to increase the levels of willingness to get vaccinated against COVID-19 and attitude toward COVID-19 among students amid the current pandemic.

Keywords: willingness to get vaccinates, attitude toward COVID-19, descriptive correlation, pandemic

About the Authors

¹Antepuesto, Athena Ella G.

aathenaella@gmail.com

Athena Ella G. Antepuesto is a Grade 12 Humanities and Social Sciences student at the University of San Carlos - South Campus. She currently serves as the editor-in-chief of the Southern Chronicles, the official school publication of the USC Senior High - South School. She is a two-time champion in the Copyreading and Headline Writing Category of the Central Visayas Regional Schools Press Conference. In 2019, she received the Student of Excellence Award from the Department of Education for being a bronze medalist in the 9th World Mathematics Team Championship held in Beijing, China. Her interests include journalism and music composition.

²Coja, Dennis A., Jr

Dennis A. Coja Jr. is currently a Grade 12 Humanities and Social Sciences student at the University of San Carlos - South Campus. He is a graduating student for this year, 2021–2022. He was an Aerospace Cadets of the Philippines (ACP) officer as a Wing 2 - Intelligence Deputy Officer in his Junior High School years. He is also currently a member of the Shield of Honor and Integrity, Empowering Leaders and Denizens (SHIELD). He also has plans to pursue a Bachelor of Arts in Political Science Degree as his college course at the same university.

³Comeros, Therese Carmel C.

Therese Carmel C. Comeros is currently a senior high school student of the University of San Carlos - South Campus. She is a Grade 12 Humanities and Social Sciences student finishing her semester in the school year 2021-2022. She was once a candidate running for HUMSS councilor during the SSC S.Y. 2021-2022 elections. Furthermore, she competed and represented in a Policy Making event. She aspires to take on a career in line with her interests in the humanities and social sciences. She plans to pursue her college course of Mass Communication at the University of San Carlos - Cebu City.

⁴Flores, Juliana Mae T.

Juliana Mae T. Flores is currently a senior high school student at the University of San Carlos - South Campus. She is a Grade 12 Humanities and Social Sciences student finishing her semester in the school year 2021 to 2022. She was a Philippine Army Citizenship Advancement Training (PA-CAT) Cadette Officer of the First Aid Unit during her junior high school years. Equity for all is a concept she firmly follows. She aspires to take on a career in line with her interests in the humanities and social sciences. She also plans to take a Bachelor's Degree in Psychology for her college course.

⁵Guantero, Vea Marielle T.

Vea Marielle T. Guantero is currently a Grade 12 Humanities and Social Sciences student at the University of San Carlos - South Campus, finishing her semester in the academic year 2021-2022. She plans to take a Bachelor of Arts in Political Science Degree for her college course at the same university. She was a secretary and dance instructor in the Filipino Arts Guild Dance Club at Stella Maris College. She was also a member of the Drum Corps Club and Red Cross Youth Organization at the same school. She received the Performer of the Year Award in her junior high school years.

⁶Torrejos, Anne Valerie S.

University of San Carlos South School

Anne Valerie S. Torrejos was born in Cebu City, Cebu. She is a graduating Senior High School student of the University of San Carlos who is taking the Humanities and Social Sciences (HUMSS) strand. She plans to take up a Bachelor of Science in Psychology degree

in college. She competed in the Regional Schools Press Conference 2015 where she discovered her passion for writing.

Research Advisers: Flordeliza S. Gagani, Dave Egan D. Labitad

A Comparative Study on Gender and Incognizance in Regards to Health Protocols Among the Youth

Raboy, M.L.F., ¹Agdon, A.S.S. ², Amadora, M.F.B. ³, Geralde, A.R.S. ⁴, Hermosa, S.L.M. ⁵, and Malabay, M.E. ⁶ *University of San Carlos South School*

Abstract

The novel coronavirus disease (COVID 19), since its first discovery in Wuhan, China, has then become a global health crisis. It has led many people to suffer from emotional distress. However despite its universality, factors such as gender can show significant differences in how seriously an individual perceives the virus as a health threat. For this reason, the researchers investigated if there is a significant mean difference between the level of incognizance of vaccinated individuals and their gender regarding health protocols during the pandemic. The researchers extracted the data from thirty (30) respondents through a non-probability purposive sampling method. The respondents were youth whose ages ranged from seventeen (17) to twenty-one (21). Results showed a significant mean difference at 0.1 level between the two genders. The data provides convincing evidence that the higher mean difference value from the fifteen (15) male participants implies that they are more likely to be incognizant in regards to following health protocols. The implications of the study shows that female youth of the locality are more concerned about the health consequences of COVID-19 and are more supportive of activity-restraining public policy measures as they view the pandemic as a serious health threat.

Keywords: Incognizance, Health Protocols, Compliance, Gender, Pandemic, Youth

About the Authors

¹Raboy, Mary Louise F.

18020617@usc.edu.ph

Mary Louise Raboy was born and raised in Mandaue City, Cebu. She spent her formative years from elementary to high school studying at the University of San Carlos. She is the former editor-in-chief of the Semper Vera and Semper Paratus publications. In addition, she was the school's representative Science and Technology writer during the 2018 – 2020 Division Schools Press Conference. She is a former grade level governor and treasurer of the Sangguniang Sentral ng Mag-aaral. Furthermore, she attained the rank of Cadette First Lieutenant during her time as a CAT officer and holds a black belt in Karate.

²Agdon, Alyssa Sofia S.

Alyssa Sofia S. Agdon was born in Guadalupe, Cebu City, Philippines. She is a graduating senior high school student from the University of San Carlos South Campus under the Humanities and Social Science Track. She became an honor student in AY 2020 - 2021. She finished both her Elementary and Junior High school at the University of San Carlos South Campus. Alyssa developed her leadership skills at a young age by becoming a consistent class officer. She then acquired a position as treasurer in Pupils Government Executive

Council where she was given the Young Rizal Award in 2016. Throughout her Junior High School years, she was a consistent class mayor. Though she had several extracurricular responsibilities, she still managed to excel in class and become a consistent classroom achiever.

³Amadora, Mel Francis B.

Mel Francis Amadora is a student from the Senior High School Department of the University of San Carlos - South School. He is currently finishing his final year under the Humanities and Social Sciences (HUMSS) strand. He has consecutively completed three semesters with honors during his time in senior high school and is aiming to achieve one more. He was one of the delegates representing USC Montessori Academy for the UP-Diliman National Mining, Metallurgical and Materials Engineering Summit in 2019, and his group was awarded champion. He took part in successfully completing qualitative and quantitative research papers under several student research groups.

³Geralde, April Rose S.

April Rose S. Geralde was born on April 15, 2004 in Tonggo, San Fernando, Cebu. She is an incoming graduating student from the University of San Carlos - South School's Senior High School Department, where she is studying Humanities and Social Sciences. During the first semester of the SY 2021-2022, she was an Honor Student. She had previously served as a leader for several activities during her junior year and had done so successfully. Her previous school also invited her to participate in and lead an outreach program in one of their barangays. She is a dedicated student who aspires to be successful in the future.

⁴Hermosa, Sherlyn Louise M.

Sherlyn Louise Hermosa was born in Cebu City, Cebu. She is a graduating student at the University of San Carlos South Campus under the Humanities and Social Sciences strand. She is a consistent classroom achiever and honor student who took part and led in conducting several research studies, all of which received high praises from research panelists. She is also active in her extracurricular activities as she holds the position of being the chairperson of the council committee in the Red Cross Youth Council of the University of San Carlos. She is also part of the executive committee of the SHIELD organization which serves as the comelec of her university.

⁵Malabay, Michaela E.

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Michaela E. Malabay was born in the Lapu-Lapu City Cebu, Philippines, and studied at the University of San Carlos- South Campus under the Humanities and Social Science Track. She finished her Junior High at the Pusok National High School and moved up as part of the Honors list in 2020. She was also part of the Press Conference writing team as Copy Reader on 2016-2017, Feature Writing in 2019. She became a part of the Supreme Student Government and ran for the position of 9th grade representative in 2018 and then a Senatorial position in 2019. She was also a part of the AD Representative in the SHIELD organization in the year 2021.

Research Adviser: Dave Egan D. Labitad

The Management Practices of Water Refilling Industry in Cebu Amidst **Pandemic**

Enterina, H.M., Golez, S.M., La O', D.A.S., Sarcauga, E.N., and Tudlasan, L.P. University of San Carlos South School

Abstract

Covid-19 had several negative impacts on the economy and the lives of people overall. Companies, including water refilling stations, faced several challenges in managing their businesses. With this study, the researchers analyzed the management practices of different water refilling stations in Cebu amidst the pandemic with the utilization of the Seven QMS Principles and Promotional Mix theories. The study deployed a convenience sampling method in choosing the 50 water refilling station managers and employees as respondents. The research design is a quantitative descriptive analysis of the management practices of water refilling stations in Cebu anchored to the Seven QMS Principles and Promotional Mix theories. This is then supported by the phenomenological qualitative data which is drawn out from the online interviews of 5 water refilling station owners using purposive sampling. Finally, the findings show that not all the water refilling stations in Cebu are abiding by the labor laws especially in terms of working hours and additional salary when exceeding the said hours. Since they are mostly operating in micro-sized enterprises, they do not recognize the significance of giving the employees these required regulations by the government. However, they comply with all the necessary permits, clearances, and licenses to comply with the government sectors, and also applied the essential courses of action during the pandemic. Moreover, the recommendations for this study are focused on the water refilling stations, employees, and future researchers.

Keywords: management practices, water refilling stations, qms principles

About the Authors

^¹Enterina, Helen M. 20800138@usc.edu.ph1

Helen M. Enterina is a senior high school student at the University of San Carlos - South Campus where she is currently enrolled in the strand of Accountancy, Business, and Management. In her first year as an ABM student at the same university, she finished the academic year with high honors. She was one of the conductors of the research entitled "The Management Practices of Water Refilling Industry in Cebu Amidst Pandemic".

²Golez, Simone Marie

20800053@usc.edu.ph

Simone Marie Golez is a senior at the University of San Carlos South Campus where she is taking up Accountancy, Business, and Management. Although she has yet to declare a major, she is considering marketing or business management. She leisurely pursues a variety of ironic and subversive interests such as random photography and arts. She was one of the conductors of the research entitled "The Management Practices of Water Refilling Industry in Cebu Amidst Pandemic".

³La O', David Anthony S.

21800735@usc.edu.ph

David Anthony S. La O' is a senior at the University of San Carlos South Campus where he is enrolled in Accountancy, Business, and Management. He is considering taking up Agribusiness to study management and organization as well as the cultivation of plants.

⁴Sarcauga, Euricka N.

20101608@usc.edu.ph

Euricka N. Sarcauga is a grade 12 senior high school student at the University of San Carlos - South Campus where she studies Accountancy, Business, and Management. As well as, she is an active church volunteer in Sto. Niño de Cebu Parish - Mohon and a member of a church organization the Parish Youth Coordinating Council. She has not yet attained any major degrees however, she plans to take up a medical-related course Bachelor of Science in Nursing.

⁵Tudlasan, Laika P.

University of San Carlos South School

Laika P. Tudlasan is a grade 12 senior high school student at the University of San Carlos - South Campus where she takes the Accountancy, Business, and Management strand. She is active in any physical activities. She was a former varsity player at the University of San Carlos back when she was in Junior High School. Moreover, she planned to continue her career in volleyball and pursue psychology.

Research Adviser: Cindy Lapaz

Consumers' Buying Behavior on Street Foods in Lapulapu City Public Market

Penales, L.S.¹, Isidto, J.D.², Lamoste, A.³, and Toledo, C.⁴ Babag National High School

Abstract

Street foods are popular snacks along the streets (Moussavi et al.,2016). However, when the covid-19 pandemic strikes, the consumer buying behavior on these foods changed due to food hygiene and safety. This study determined the consumer buying behavior of Oponganons on Street foods in Lapu-Lapu City Public Market. Specifically, it investigated profile of the respondents in terms of age, sex and occupation; their buying behavior in terms of food safety, price and food interest; factors based on personal and group preference and their street food preference. This study employed a descriptive survey research design with 40 respondents selected through convenience sampling, The data were analyzed using frequency and percentage for the profile, mean and standard deviation for the rest. The findings showed that respondents are mostly female, below 19 years old and they are students. In terms of buying behavior, they prefer neat food preparation, reasonable price and taste. Personally, they prefer street food because its affordable and enjoyable eating with friends. The most preferred street foods are kwek-kwek, tempura and fish ball. Thus, even under the threat of Covid-19 pandemic, respondents still buy street foods because for them, street foods served quickly satisfy their cravings, and they believe that vendors still pay attention to hygiene too.

Keywords: buying behavior, street food, public market

About the Authors

¹Penales, Lea S.

leapenales1@gmail.com

Lea S. Penales is a grade 12 Accountancy, Business, and Management (ABM) student in Babag National High School. She conducted a study entitled Start-App: Sales Success of Start-Up Businesses in Lapu-Lapu City Through Social Media Platforms.

²Isidto, Jubie Dinia

Jubie Dinia Isdito is a grade 12 Accountancy, Business, and Management (ABM) student in Babag National High School. She conducted a school level study on Effects of Modular Learning to the Mental Health of the SHS Students.

³Lamoste, Ariadne

Ariadne Lamoste is A grade 12 Accountancy, Business, and Management (ABM) student in Babag National High School. She conducted a study entitled Start-App: Sales Success of Start-Up Businesses in Lapu-Lapu City Through Social Media Platforms.

⁴Toledo, Charnel

Charnel Toledo is a grade 12 Accountancy, Business, and Management (ABM) student in Babag National High School. She conducted a school level study on Effects of Modular Learning to the Mental Health of the SHS Students.

Research Adviser: Vonn Clyde C. Nunez

Brand Positioning and Promotional Strategy of *Ginabot sa Bayot* in Babag I, Lapulapu City: Proposed Marketing Plan

Alcoriza, L. ¹, Bontaliao, P.S. ², Delechos, I.T. ³, and Retamas, M.C.B. ⁴ *Babag National High School*

Abstract

Brand positioning and promotional strategies made a significant contribution to customer patronage. During the covid-19 pandemic, a local business in town boomed its popularity due to its brand name. This study described the brand positioning and promotional strategy of Ginabot sa Bayot in Babag 1, Lapu-Lapu City to propose a marketing plan. Specifically, it investigated the employed brand positioning strategies, promotional strategies, and customer average visits from February-March 2022. This study employed a descriptive survey research design with 10 respondents selected through purposive sampling using an adapted survey questionnaire, The data were analyzed using frequency count, mean and standard deviation. The findings showed that the employed brand positioning strategies are price reduction, big quantity servings, attractive menu names, and minimalist logo and yellowish color to emphasize the brand name while promotional strategies employed are referrals and social media advertisement. The store has an average customer visit of 100-150 on weekdays and around 400 on weekends in February but decreases in March by half. Thus, a marketing sustainability plan strengthening more promotional strategies should be implemented.

Keywords: brand positioning, promotional strategy

About the Authors

¹Alcoriza, Lovely

alcorizalovely2003@gmail.com

Lovely Alcoriza is a grade 12 Accountancy, Business and Management Student in Babag National High School. Her research experiences are about the Lapu-Lapu City's Lower Class Families: Ways Of Coping With Financial Distress And Traditional To Online: Effects Of Having No Electronic Gadgets In The New Normal Learning.

²Bontilao, Psalm Angel D.

Psalm Angel D. Bontilao is a grade 12 Accountancy, Business and Management Student in Babag National High School. Her research experiences are about the Lapu-Lapu City's Lower Class Families: Ways Of Coping With Financial Distress And The Effects Of Social Media On The Political Stance Of The Senior High School Students Of Babag National High School.

³Delechos, Irish T.

Irish T. Delechos is a grade 12 Accountancy, Business and Management Student in Babag National High School. Her research experiences are about the Lapu-Lapu City's Lower Class Families: Ways Of Coping With Financial Distress And Social Media Marketing: Advantage And Disadvantage.

⁴Retamas, Mary Cathlene

Mary Cathlene Retamas is a grade 12 Accountancy, Business and Management Student in Babag National High School. Her research experiences are about the Lapu-Lapu City's Lower Class Families: Ways Of Coping With Financial Distress And Social Media Marketing: Advantage And Disadvantage.

Research Adviser: Vonn Clyde C. Nunez

Parallel Session 10

Book Genres In Relation to Communication Styles

Clarin, N.A.¹, Perez, E.S²., Saavedra, N.E.³, Cartagena, J.⁴ University of the Philippines High School Cebu

Abstract

This correlational study aimed to know the relationship between preferred fictional book genres and level of communication styles among high school students. Students were provided with questionnaires asking their book genre preference and their reading frequency through Merga's book reading frequency while their communication styles were assessed through the Communication Style Assessment. It was found that Romance, Mystery, Science Fiction, Fantasy, and Thriller & Suspense are the most preferred fictional book genres and in terms of reading frequency, most of the students read 1-2 books per month. It was also concluded that the students' levels of Passiveness, Passive-aggressiveness, and Assertiveness were found to have no significant relationship with book genre preference, but their level of Aggressiveness did. The majority of responses fall within the low-to-middle aggressiveness range, implying that participants are less aggressive. Thus, the more they read "Others" preferred fictional

book genres, the less aggressive they are. Finally, it was discovered that their levels of Aggressiveness and Assertiveness have a significant relationship with reading frequency. Thus, the more they read preferred fictional book genres 1-2 times a month, the less aggressive they are, because most of the respondents belong to low-to-middlelevel aggressiveness. Furthermore, the more they read preferred fictional book genres 1-2 times a month, the more assertive they are also because most of the respondents belong to middle-to-high-level in assertiveness. Overall, reading different fictional book genres has the ability to influence an individual which is supported by Transportation theory; however, to only certain communication styles, specifically the level of Aggressiveness and Assertiveness.

Keywords: communication style, book genre, reading frequency, book preference, transportation theory

About the Authors

¹Clarin, Niecel Shiene A. naclarin@up,edu.ph

Niecel Shiene A. Clarin is a current Grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

Perez, Eleanna S. esperez1@up.edu.ph

Eleanna S. Perez is a current Grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu.

Saavedra, Niña Therese E. nesaavedra@up.edu.ph

Nina Therese E. Saavedra is a current Grade 11 STEM student at the University of the Philippines High School Cebu.

Research Adviser: Purita T. Baltazar

Perceptions of Gaming Community and Exposure: A Correlational Study Capacio, R.G.M.¹, Carlos, M.KG.², Girasol, EA.A.³, Villamor, M.L. R.,⁴ University of the Philippines High School Cebu

Abstract

Throughout the gaming world, the community behind them has been viewed as a vocal minority by the general public, the media, and even national governments around the world, resulting in numerous disputes and even laws. This category of entertainment has been plagued by pushback and misapprehensions from the general public. This survey correlational study sought to determine the relationship between student and teacher exposure to the gaming community and their perceptions of it. The research was carried out at two Cebu schools, a state university and an elementary school. Since adopting a policy of democratized admissions for high school students, the State University offers a high school program that only admits first-year students from lowincome families. The research hypothesis is supported by a significant correlation

between exposure to the gaming community and perceptions produced by the learning sector. Despite the general public's dislike for video games, the learning sector views the gaming community positively. There is a significant relationship between exposure to the community and the aforementioned perception.

About the Authors

¹Capacio, Rolf Godwin M.

Rolf Godwin M. Capacio is a current grade 11 HUMSS / ABM student at the University of the Philippines High School Cebu.

². Carlos, Marvie Kyle G

Marvie Kyle G. Carlos is a current grade 11 STEM student at the University of the Philippines High School Cebu.

³ **Girasol, Emmanuel Allain G.** *eagirasol@up.edu.ph*

Emmanuel Allain G. Girasol is a current grade 11 STEM student at the University of the Philippines High School Cebu.

³ Villamor, Mary Loise

Mary Loise R. Villamor is a current grade 11 HUMSS/ABM student at the University of the Philippines High School Cebu

Research Adviser: Purita T. Baltazar

Analysis of UPHS Cebu Students' Well-Being Amidst the Pandemic Using the PERMA Model

Inez, E. P.¹ and Villacorta, J. P.² *University of the Philippines High School Cebu*

Abstract

In light of the ongoing COVID-19 pandemic, various psychosocial problems were seen increasing in numbers, hence the exacerbation of students' well-being across different countries. This present study, therefore, aims to assess the overall well-being of the University of the Philippines High School (UPHS) students in Cebu amidst the COVID-19 pandemic using the PERMA Model. A total of 125 students from Grades 7–12 answered the 23-item PERMA- Profiler developed by Butler and Kern (2016), with the additional demographic profile including age and sex, and a scale on the perceived impact of the COVID-19 pandemic on their well-being. Findings showed that UPHS students have a moderately high level of overall well-being despite the pandemic. Moreover, they also got the highest scores in Engagement despite the online setup, while lowest in terms of Health which covers both the physical and mental aspects;

¹epinez@up.edu.ph, ²jpvillacorta1@up.edu.ph ¹University of the Philippines Visayas Tacloban College Magsaysay Boulevard, Tacloban City, Leyte 6500 ²University of the Philippines Cebu Gorordo Ave., Lahug, Cebu City, Cebu 6000

there is no significant difference found between sex and overall well-being of UPHS students but in Engagement, it was significant; and the study found that age has a weak negative relationship to the overall well-being of UPHS students and is significant. Furthermore, the impact of the COVID-19 pandemic on the well-being of students, regardless of sex and age, is significant. In conclusion, the moderately high level of the overall well-being of the students

might be an indication that they are still coping and moving forward despite the undeniable influence of the pandemic on their well-being. The study further made recommendations based on the results and discussions of the data.

Keywords: COVID-19, PERMA, well-being, positive psychology, high school, students

About the Authors

¹Inez, Erika Florence P.

epinez@up.edu.ph

Erika Florence P. Inez is a first-year BA Communication Arts student at the University of the Philippines Visayas Tacloban College. She graduated with high honors from the University of the Philippines High School Cebu under the Humanities and Social Sciences (HUMSS) strand in 2021. In line with her current course, Erika is committed to further deepening her knowledge in the fields of media arts, broadcast communication, and advertising wherein she hopes to pursue a similar career path in the near future.

²Villacorta, James Alex P.

jpvillacorta1@up.edu.ph

James Alex P. Villacorta is a first-year BA Psychology student at the University of the Philippines Cebu. He is an alumna of the University of the Philippines Cebu, wherein he was awarded the Gold Medal of Excellence in HUMSS, graduated with highest honors, and became the class salutatorian of UPHSC Batch 2021. With full dedication toward the subdiscipline Positive Psychology, his main goal is to alleviate the human condition by means of flourishing the well-being of Filipinos.

Research Adviser: Noe M. Santillan

Parallel Session 11

Assessment of Public Compliance of COVID-19 Protocols in Cebu City

Joromo, N. C.¹, and Lacorte, J. P² *University of the Philippines High School Cebu*

Abstract

Health experts strongly believe that compliance with basic health protocols can significantly reduce the risk of infection and transmission of COVID-19. Using descriptive-correlational research, a total of 154 respondents in one of the urban barangays in Cebu City answered the survey questionnaires to assess the level of awareness, anxiety, and attitude toward COVID-19 and public compliance to COVID-19 protocols. The results showed a significant relationship between the respondents' level of awareness, attitude toward COVID-19, and level of compliance with COVID-19

health protocols. The respondents were very aware about COVID-19 and how it can be prevented which may explain their very high level of compliance to public health protocols. Therefore, it is recommended that the high extent of receiving COVID-19 related information and risk awareness are key factors associated with respondents' engagement in various health protocols and preventive behaviors towards COVID-19. Furthermore, the association between knowledge, attitude, and compliance reinforce the importance of widespread public health messaging and information.

Keywords: health protocols, level of awareness of COVID-19, level of COVID-19 anxiety, level of attitude toward COVID-19

About the Authors

¹Joromo, Neil James C.

ncjoromo@up.edu.ph

Neil James C. Joromo is a HUMSS-ABM student from the University of the Philippines High School Cebu. His work explores strategies and recommends solutions to current social issues to alleviate the lives of people, especially Filipinos. Moreover, the author has research interests in social issues, human behavior, and social trends.

Lacorte, John Mart P.

jplacorte@up.edu.ph

John Mart P. Lacorte is a HUMMS-ABM student from the University of the Philippines High School Cebu. He is interested in the Disciplines and Ideas in the Applied Social Sciences and World Religions. Years from now, he wants to read his past research to see his growth and progress.

Research Adviser: Magnolia A. Laus

Perception Towards COVID-19 Vaccination Program of the Residents in a Rural Area in Cebu

Catubig, K. K.D.¹, Pantaleon, S. K.² University of the Philippines High School Cebu

Abstract

COVID-19 Vaccination Programs have become an important movement in combatting the spread of the COVID-19 virus. Vaccination gives higher chances of being safe from the virus. However, there are misconceptions about the effectiveness of the vaccines including their risk which greatly increased vaccination hesitancy. Thus, it is significant to determine the perception of the residents towards the COVID-19 Vaccination Program.

One hundred and fifty-three respondents in a rural area in Cebu were surveyed using a four-part questionnaire that identified their demographic profile, level of awareness, level of anxiety, and level of acceptance. The respondents were randomly selected within the research environment. Results showed that age and educational attainment has a significant effect on the respondents' level of awareness. This suggests that as the respondents' age increases, their tendency to become aware increases as well. However, there is no significant difference between the respondents' demographic profiles, levels of anxiety, and levels of acceptance. Furthermore, the respondents noted that vaccines

served as protection from the virus. Thus, vaccination programs are effective as individuals who are vaccinated have a low risk of being infected.

Keywords: COVID-19, Vaccination Program, demographic profile, level of awareness, level of anxiety, level of acceptance

About the Authors

¹Catubig, Khayraen Kaeth D.

kdcatubig@up.edu.ph

Khayraen Kaeth D. Catubig is a Grade 12 student from the Humanities and Social Sciences (HUMSS) strand at the University of the Philippines High School Cebu. In grade school, she participated in a Science Investigatory Project - Division Level, regarding the use of basil oil and lemongrass extract as a mosquito repellent. In her last year in Senior High School, together with her research partner, she investigated the perception of the residents in a rural area in Cebu towards the COVID-19 Vaccination Program.

²Pantaleon, Shaine Kate L.

slpantaleon@up.edu.ph

Shaine Kate L. Pantaleon is a Grade 12 student from the Humanities and Social Sciences (HUMSS) strand at the University of the Philippines High School Cebu. In grade school, she participated in several investigatory projects for their science class. She also participated in the Science Investigatory Project - Division Level, which investigated the effectiveness of *tangan-tangan* leaves and *sinaw-sinaw* as mosquito repellent. In her last year in Senior High School, together with her research partner, she investigated the perception of the residents in a rural area in Cebu towards the COVID-19 vaccination program.

Research Adviser: Magnolia A. Laus

Carbon Market Modernization: The Impact of Privatization to the Vendors in Cebu City

Doble, O. J.¹, and Nunez, B. T.² University of the Philippines High School Cebu

Abstract

Carbon Public Market is undergoing a modernization and privatization project under the Joint Venture Agreement (JVA) made by the Megawide Corporation and the Cebu City government. The modernization and privatization project in the Carbon Public Market would mainly impact the vendors as many of the vendor's primary source of income is from selling in the Carbon Public Market. Thus, it is significant to determine the awareness and attitude of the vendors towards the Carbon Public Market Modernization Project.

One hundred and ten different types of vendors in the carbon public market were surveyed and interviewed about their awareness of the JVA and their attitude towards the privatization of the Carbon Public Market. Most vendors do not support the privatization of the Carbon Public Market due to changes in rental fees, market policies, and stall size. However, the majority of the vendors support the modernization of the Carbon Public Market as it will create a cleaner, safer, and more comfortable market for customers and vendors. Moreover, it was found that awareness of the modernization and privatization project, age, and type of vendor has no significant effect on vendors' attitudes towards the modernization and privatization of the Carbon Public Market. In

contrast, the sex, years of operating in the market, and vendors monthly have a significant effect on vendors' attitudes towards the modernization and privatization of the Carbon Public Market. Hence, most vendors hope that the city government does what they think will be good because they will be the most affected, and for their voices to be heard.

Keywords: *JVA*, *PPP*, public market, privatization, modernization, attitude, awareness

About the Authors

¹**Doble, Olive Jude B.** *obdoble@up.edu.ph*

Olive Jude Doble is a grade 12 student from the Humanities and Social Sciences (HUMMS) strand at the University of the Philippines High School Cebu. She is interested in the studies related to the livelihoods of the average income earners and how the government assists them in their problems and concerns. Thus, she is interested in the Humanities, Social Sciences, and Human Society research fields. In her current research paper, together with her partner, they studied the impact of the privatization of a public market in Cebu City on the vendors.

²Nuñez, Bazer Timothy M.

bmnunez1@up.edu.ph

Bazer Timothy M. Nuñez is a grade 12 student from the Humanities and Social Sciences (HUMSS) strand at the University of the Philippines High School Cebu. When he was in junior high, together with his research mate, they investigated the styrofoam, powdered clamshell (Mercenaria mercenaria) as fish scale as an alternative ceramic tile. Moreover, his interest now is not just focusing on developing knowledge in the field of Science but also on the study of Philosophy, Governance, Business, Health, and Education. In his last year in senior high school, together with his research mate, they look through the impact of the privatization of a public market in Cebu City on the vendors.

Research Adviser: Magnolia A. Laus

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