<table>
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<tr>
<th><strong>Dr. Apostolos Ch. Zarros</strong></th>
<th><strong>Dr. William Chi-shing Cho</strong></th>
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<tbody>
<tr>
<td>DM, Degree (Ptychio) holder in Medicine, National and Kapodistrian University of Athens MRes, Master of Research in Molecular Functions in Disease, University of Glasgow FRNS, Fellow, Royal Numismatic Society Member, European Society for Neurochemistry Member, Royal Institute of Philosophy Scotland, United Kingdom</td>
<td>Ph.D., Department of Clinical Oncology Queen Elizabeth Hospital Hong Kong</td>
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<tr>
<th><strong>Dr. Alfio Ferlito</strong></th>
<th><strong>Dr. Michael Wink</strong></th>
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<tr>
<td>Professor Department of Surgical Sciences University of Udine School of Medicine, Italy</td>
<td>Ph.D., Technical University Braunschweig, Germany Head of Department Institute of Pharmacy and Molecular Biotechnology, Heidelberg University, Germany</td>
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<tr>
<th><strong>Dr. Jixin Zhong</strong></th>
<th><strong>Dr. Pejcin Ana</strong></th>
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<tbody>
<tr>
<td>Department of Medicine, Affiliated Hospital of Guangdong Medical College, Zhanjiang, China, Davis Heart and Lung Research Institute, The Ohio State University, Columbus, OH 43210, US</td>
<td>Assistant Medical Faculty Department of Periodontology and Oral Medicine University of Nis, Serbia</td>
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<tr>
<th><strong>Rama Rao Ganga</strong></th>
<th><strong>Dr. Ivandro Soares Monteiro</strong></th>
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<tbody>
<tr>
<td>MBBS</td>
<td>M.Sc., Ph.D. in Psychology Clinic, Professor University of Minho, Portugal</td>
</tr>
<tr>
<td>MS (University of Health Sciences, Vijayawada, India) MRCS (Royal College of Surgeons of Edinburgh, UK) United States</td>
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<th><strong>Dr. Izzet Yavuz</strong></th>
<th><strong>Dr. Sanjay Dixit, M.D.</strong></th>
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<tbody>
<tr>
<td>MSc, Ph.D., D Ped Dent. Associate Professor, Pediatric Dentistry Faculty of Dentistry, University of Dicle Diyarbakir, Turkey</td>
<td>Director, EP Laboratories, Philadelphia VA Medical Center Cardiovascular Medicine - Cardiac Arrhythmia Univ of Penn School of Medicine Web: pennmedicine.org/wagform/MainPage.aspx?</td>
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<th><strong>Sanguansak Rerksuppaphol</strong></th>
<th><strong>Antonio Simone Laganà</strong></th>
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<tbody>
<tr>
<td>Department of Pediatrics Faculty of Medicine Srinakharinwirot University NakornNayok, Thailand</td>
<td>M.D. Unit of Gynecology and Obstetrics Department of Human Pathology in Adulthood and Childhood “G. Barresi” University of Messina, Italy</td>
</tr>
<tr>
<td>Name</td>
<td>Position/Department</td>
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</tr>
<tr>
<td>Dr. Han-Xiang Deng</td>
<td>Associate Professor and Research Department Division of Neuromuscular Medicine</td>
</tr>
<tr>
<td>Dr. Roberto Sanchez</td>
<td>Associate Professor Department of Structural and Chemical Biology</td>
</tr>
<tr>
<td>Dr. Feng Feng</td>
<td></td>
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<tr>
<td>Dr. Hrushikesh Aphale</td>
<td>MDS- Orthodontics and Dentofacial Orthopedics. Fellow- World Federation of Orthodontist, USA.</td>
</tr>
<tr>
<td>Gaurav Singhal</td>
<td>Master of Tropical Veterinary Sciences, currently pursuing Ph.D in Medicine</td>
</tr>
<tr>
<td>Dr. Pina C. Sanelli</td>
<td>Associate Professor of Radiology Associate Professor of Public Health</td>
</tr>
<tr>
<td>Dr. Michael R. Rudnick</td>
<td>M.D., FACP Associate Professor of Medicine Chief, Renal Electrolyte and Hypertension Division (PMC)</td>
</tr>
<tr>
<td>Dr. Seung-Yup Ku</td>
<td>M.D., Ph.D., Seoul National University Medical College, Seoul, Korea Department of Obstetrics and Gynecology Seoul National University Hospital, Seoul, Korea</td>
</tr>
<tr>
<td>Santhosh Kumar</td>
<td>Reader, Department of Periodontology, Manipal University, Manipal</td>
</tr>
<tr>
<td>Dr. Aarti Garg</td>
<td>Bachelor of Dental Surgery (B.D.S.) M.D.S. in Pedodontics and Preventive Dentistr Pursuing Phd in Dentistry</td>
</tr>
<tr>
<td><strong>Sabreena Safuan</strong></td>
<td><strong>Arundhati Biswas</strong></td>
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</tr>
<tr>
<td>Ph.D (Pathology) MSc (Molecular Pathology and Toxicology) BSc (Biomedicine)</td>
<td>MBBS, MS (General Surgery), FCPS, MCh, DNB (Neurosurgery)</td>
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<th><strong>Getahun Asebe</strong></th>
<th><strong>Rui Pedro Pereira de Almeida</strong></th>
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<tbody>
<tr>
<td>Veterinary medicine, Infectious diseases, Veterinary Public health, Animal Science</td>
<td>Ph.D Student in Health Sciences program, MSc in Quality Management in Healthcare Facilities</td>
</tr>
</tbody>
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<tr>
<th><strong>Dr. Suraj Agarwal</strong></th>
<th><strong>Dr. Sunanda Sharma</strong></th>
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<tr>
<th><strong>Osama Alali</strong></th>
<th><strong>Shahanawaz SD</strong></th>
</tr>
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<tbody>
<tr>
<td>PhD in Orthodontics, Department of Orthodontics, School of Dentistry, University of Damascus. Damascus, Syria. 2013 Masters Degree in Orthodontics.</td>
<td>Master of Physiotherapy in Neurology PhD- Pursuing in Neuro Physiotherapy Master of Physiotherapy in Hospital Management</td>
</tr>
</tbody>
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<thead>
<tr>
<th><strong>Prabudh Goel</strong></th>
<th><strong>Dr. Shabana Naz Shah</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MCh (Pediatric Surgery, Gold Medalist), FISPU, FICS-IS</td>
<td>PhD. in Pharmaceutical Chemistry</td>
</tr>
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<tr>
<th><strong>Raouf Hajji</strong></th>
<th><strong>Vaishnavi V.K Vedam</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>MD, Specialty Assistant Professor in Internal Medicine</td>
<td>Master of dental surgery oral pathology</td>
</tr>
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</table>

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<tr>
<th><strong>Surekha Damineni</strong></th>
<th><strong>Tariq Aziz</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ph.D with Post Doctoral in Cancer Genetics</td>
<td>PhD Biotechnology in Progress</td>
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</tbody>
</table>
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Human Immunodeficiency Virus Infectious Profile Change in Mali: A Narrative Review

By Nouhoum Bouare, Sebastien Bontems & Christiane Gerard

Abstract- West Africa is reputed as an epicenter of HIV-2 infection. Studies undertaken in Mali suspected HIV-1 more prevalent. Our study aims to document HIV infectious profiles in Mali and analyze HIV-1 dominance. We documented HIV studies undertaken in Mali from 1985 to 2010. We proceeded to a bibliographic search focused on theses from the Medicine Pharmacy Odontostomatology Faculty (FMPOS) of Bamako, survey reports, and abstracts or papers published in reviews with the reading committee. Documents were physically and virtually (via website) consulted and exploited. We gave preference to studies that discriminated against HIV serotypes. The data were analyzed according to study population/publication, representativeness, infectious profiles reporting, socio-demographic and clinical characteristics. HIV profiles variation in space and time was analyzed by using a linear regression model. Calculations were done using Excel software.

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GJMR-C Classification: NLMC Code: QW 501
Human Immunodeficiency Virus Infectious Profile Change in Mali: A Narrative Review

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Keywords: epidemiology, HIV infection, serotypes change, Mali, West Africa.

I. Introduction

West Africa is reputed to be the epicenter of HIV-2 infection [1]. This HIV profile was also endemic in the same geographic area [2]. In Mali, the first AIDS case was identified in 1985 [3]. In this country, the early studies reported a dominance of HIV-2 on HIV-1 [4, 5, 6, 7]. However, an anterior study conducted in patients admitted in pneumo-pneumophtisiology setting revealed HIV-1 more prevalent in the sub-study population of non-tuberculosis patients [8]. Unlike the prior studies, more or less recent works conducted in this country reported an opposite trend [9-20]. However, in the country, a significant higher HIV-2 prevalence was observed in 2010 in older women than in young ones (in 2009), despite a high HIV-1 dominance in the both populations [19]. This HIV-2 trend in older adults contrasting with the low trend in young ones, aroused our curiosity to analyze the dominance of the HIV-1 infectious profile that seems plausible in Mali.

II. Methodology

a) Procedure

This narrative review consisted of analyzing the data from preview studies concerning HIV infection in Mali. We have pursued a bibliographic search focused on HIV studies (subject or not to publication in scientific reviews) undertaken in Mali from 1985 to 2010. The FMPOS theses file, as well as papers related to HIV/AIDS topic, were consulted and exploited for data collection and analysis. We prioritized studies having documented the serotypes profiles (HIV-1, HIV-2, and HIV-1/2), by using a discriminatory or confirmatory test. We structured the argumentation around the following criteria: study period, publication date and reference; study population including hospital patients, prostitutes, pregnant women, blood donors, general population; study sample size; study population characteristics such as ages, average age, gender, underlying diseases, clinical symptoms, risk factors; stratification by age (<50-years-old and >50-years-old); testing for HIV serotypes profiles discrimination using immunochromatography, Western Blot or Line Immunoassay principal; typology of the publication such as abstracts or full text from international journals, meetings or conferences presentations, theses and reports.

b) Statistical Analysis

Results are presented as mean ± SD (range) for continuous variables and frequencies (%) for categorical variables. Categorical variables were compared between the groups using a chi-square test. Results were significant at the 5% level (p < 0.05). Linear Regression model was used to analyze the HIV profiles trends. Calculations were done using Excel Software.
c) Human Subjects
This proposed study uses an anonymous secondary data set, and does not qualify as human subject research.

III. Results

A total of 17 studies were exploited. They mainly concerned health care patients and prostitute women populations (Table 1), as they are likely to be more exposed to HIV infection than the general population. Samples size in these studies ranged from 23 to 3179 subjects (Table 2). Regarding the stratification of population by age (<50-years-old versus >50-years-old), a study revealed that despite HIV-1 prevalence was high in both strata, HIV-2 was significantly more prevalent in the older populations than in younger (2/1000 vs. 5/231) (p = 0.0003). Out of 17 studies reviewed nine only documented in full HIV serotype profiles from the abstract and/or full text (Table 2). This table also informs on HIV prevalence that ranges between 0.73% and 75.79%. The lowest prevalences were observed in blood donors and pregnant women. The prostitutes and health care patients were the most affected. When one considers only the prostitutes populations (Table 2), a significant regression of HIV-2 can be observed between 1987-1989 and 1995 (65/517 vs. 63/176) (p = 0.001). Conversely, HIV-1 increased significantly during the same period (36/517 vs. 7/176) (p = 0.001). As far as health care patients are only concerned, there was a significant increase in HIV-1 (Y_{HIV-1} = 9.20x + 22.80; R^2 = 0.6351) while HIV-2 significantly regressed (Y_{HIV-2} = -3.81x + 34.47; R^2 = 0.2895). Furthermore, when taking into account the overall population, a similar trend can be observed (Y_{HIV-1} = 8.48x + 16.38; R^2 = 0.646) vs (Y_{HIV-2} = -5.62x + 55.82; R^2 = 0.3321). The chronology of events, as well in all the populations studied as in health care patients taken alone (Table 2 and 3; fig1 and 2), shows that both infectious profiles have pre-existed in Mali, but with an initial predominance of HIV-2 and change toward HIV-1 that occurred probably between 1990 and 1994.

IV. Discussion

A Malian study reported a higher HIV seroprevalence in prostitutes in 1991 (70%) [21]. In Mali, HIV prevalence of 4.1% (41/1000) was measured in 2009 in pregnant women (young women), with a higher dominance of HIV-1 (95%) [19, 22]. This seroprevalence measured in 2009 in the Bamako district was comparable to 3.5% (183/5224) reported in 2006 in pregnant women recruited from seven locations (including Bamako) across the country [23]. Likewise, in 2010, HIV seroprevalence 6.1% (14/231) measured in older women did not differ from 4.1% reported in young ones [19, 22]. By contrast, the proportion of HIV-2 was significantly higher in older women than in younger ones, 2.16% (5/231) vs. 0.2% (2/1000); p <0.001. The HIV epidemiological profile between 1985 and 2010 shows at the beginning of this observation period HIV-2 dominance; a trend that has been reversed later in favor of HIV-1, which is still dominant today. Indeed, several studies have revealed the dominance of HIV-1 between 1988 and 2010 [9-20], unlike the first studies undertaken in Mali between 1985 and 1989 [4, 5, 6, 7]. This new trend in favor of HIV-1 dominance contrasts a priori with evidence that West Africa is the epicenter of the epidemiology of HIV-2 [1]. Our work is limited by the lack of representativeness from some preliminary studies undertaken and reported in Mali. It suffered equally from the data insufficiency related to HIV infectious profiles in some documents consulted. Guinea-Bissau (a West African country) is described as the epicenter of the HIV-2 epidemic [24]. In the same country, HIV-1, HIV-2 and HIV-1/2 seroprevalence were respectively 1.1%, 8.4% and 0.1% for the period of 1992-1995 and 7.7%, 5.1% and 1.9% in 2005 [25]. Between February 1987 and May 1988, the Central Hospital of Dakar registered HIV-1 frequency comparable to that of HIV-2 46% (50/109) vs 40% (44/109); p > 0.05 [26]. In the same city, prevalence rates for HIV-1 (6%), HIV-2 (3.6%) and HIV-1/2 (0.4%) were reported, in 2000, among sex workers [27]. In Ivory Coast, a predominance of HIV-1 was reported in 1988 [28]. In Mali, a prior study carried out in patients enrolled in a specialized hospital reported in none tuberculosis patients a rate of 5.5% (9/164) for HIV-1 vs. 1.22% (2/164) and 1.83% (3/164) respectively for HIV-2 and HIV-1/2 [8]. However, considering the totality of patients with or without tuberculosis, the frequencies were 4.58% (22/480), 2.71% (13/480), and 3.96% (19/480), respectively for HIV-1, HIV-2, and HIV-1/2. In this country, a high frequency of HIV-1 was reported in 2009 among students [20]. Bouare et al. demonstrated that HIV-2 was significantly more common in older women than in younger ones [19]. Suggesting HIV-2 infection occurred earlier (probably 20 years or more) in these older adults infected. That may explain and confirm two hypotheses: HIV-2 infection oldness and HIV infectious profile change toward HIV-1 in Mali. Moreover, from 1988 to 1992, we observe a quantitative dominance of HIV-1 2.99% (71/2378) vs. 0.97% (23/2378) and 1.39% (33/2378) respectively for HIV-2 and HIV-1/2 [9]. A study conducted between 1990 and 1999 even reported a predominance of HIV-1 with a prevalence of 58.55% (462/789) vs. 5.58% (44/789) and 11.66% (92/789) respectively for HIV-2 and HIV-1/2 [10]. It also described the growing trend of emigration between 1993 and 1998 (4.18% to 8.11%), a sexual transmission rate of 98.10%, the first peak of HIV-1 in 1992, and persistent latency observed for HIV-2. This rate of 98.10% of sexual transmission is supported by Bouare et al. [22], who reported that HIV transmission might be essentially sexual in Mali. The data for the study...
between 1987 and 1989 [6, 7] attributed a significant proportion of HIV infection linked to staying (since 1980) in Central Africa, West Africa, and Europe. This could partially explain the foreign exposition and contamination of the people before they come back in Mali. Other studies in Mali focused on prostitution which can explain the spread of HIV infection [4, 5, 6, 13, 14, 21]. One of them reported that the highest prevalence was 70% among registered prostitutes in 1991, and most regions of Mali had experienced higher HIV prevalence among sex workers in 1992 compared to 1988 [21]. Also, a bibliographical study of the period 1983 to 2003 reported in 2004 the dominance of HIV-1 since 1990 and HIV-2 dominance before that time [14]. It also pointed out limitations such as poor access to studies, especially that of NGOs (Non-Governmental Organizations), and insufficient data regarding some summaries in general. Through a study conducted in 1995 in Mali regarding prostitutes mainly composed of foreign (including Nigerian and Ghanaian), Peeters and coworkers reported a significant increase in HIV-1 against a decrease of HIV-2 [13]. They also reported the similarity of this trend with those observed in the neighboring countries of Mali. They hypothesized recent contamination among women who started sex work a year (or less than a year) before they conducted their study since HIV-1 subtype G was detected. As for our study, when we consider only the population of the epidemiological profile of HIV for HIV-1 probably occurred in Mali between 1990 and 1994, while Antonio Biague et al. described the HIV-1 increase and HIV-2 decline between 1992-1995 and 2005 [25]. In HIV epidemiological study context, documenting of all serotypes profiles (HIV-1, HIV-2, and HIV-1/2) and genotypes in both abstract statement and full text (usually difficult to access) are needed to track their evolution in space and time and enable more precise dating of infectious profiles to change.

In conclusion, this present work surprisingly highlighted HIV-1 profile predominance in Mali, whereas West Africa is reputed to be the HIV-2 epicenter. The HIV profile change seems to occur between 1990 and 1994. The transmission risks and routes such as sexual, trip duration and emigration are a fortiori highlighted. The propagation of HIV infection seems essentially linked to the sexual route in this country.

References Références Referencias

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**Table 1: Chronology of events according to the publication date and study population characteristics**

<table>
<thead>
<tr>
<th>Publication</th>
<th>Study Population Characteristics</th>
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<tbody>
<tr>
<td>Date</td>
<td>Population Age (mean±SD) Risk Factors and other informations</td>
</tr>
<tr>
<td>1987</td>
<td>Prostitutes, Prisoners, Patients, Pregnant women (PW) 26 Prostitution, homosexuality, transfusion</td>
</tr>
<tr>
<td>1988</td>
<td>Prostitutes 35 Prostitution</td>
</tr>
<tr>
<td>1988</td>
<td>Patients 35 Voyage (stay at foreign)</td>
</tr>
<tr>
<td>1989/1993</td>
<td>Prostitutes, Patients, Prisoners, Women, Men 30.18 Prostitution (stay at foreign), widowhood, divorce, residence, tattoo, not condom use</td>
</tr>
<tr>
<td>1993</td>
<td>Patients Peasants, Traders, Big travelers</td>
</tr>
<tr>
<td>1998</td>
<td>Prostitutes 28.8 Prostitution</td>
</tr>
<tr>
<td>2000</td>
<td>Patients (AIDS)</td>
</tr>
<tr>
<td>2001</td>
<td>Patients 35.19±9.45 Sex transmission, emigration; first peak HIV-1 (1992) and HIV-2 latency</td>
</tr>
<tr>
<td>2001</td>
<td>Blood donors (BD) Absence of discriminant test in 93 and 99, HIV-1 predominant (94-98)</td>
</tr>
<tr>
<td>2001</td>
<td>Patients, Prostitutes, PW, BD Prostitution (HIV seroprevalence: 70%)</td>
</tr>
<tr>
<td>2004</td>
<td>Bibliographic studies of theses Groups at risk: prostitutes, ambulatory saleswomen, coxers, truck drivers; lack studies access, data lack in some abstracts</td>
</tr>
<tr>
<td>2004</td>
<td>Patients 37.5±7.93 Stay at foreign</td>
</tr>
<tr>
<td>2006</td>
<td>General population</td>
</tr>
<tr>
<td>2006</td>
<td>Patients (children) 7</td>
</tr>
<tr>
<td>2009</td>
<td>Students More HIV-1 than HIV-2</td>
</tr>
<tr>
<td>2012/2013</td>
<td>Pregnant women / Patients 25.2±6.3/62.1±8.6 Not condom use, divorce, voyage</td>
</tr>
<tr>
<td>2013</td>
<td>Patients 35.2±9.4 Patients (Predominantly rural, female and young); Stage III WHO (64.5%)</td>
</tr>
</tbody>
</table>

**WHO:** World Health Organization

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**Table 2: Prevalence of HIV infection according to the study period and population**

<table>
<thead>
<tr>
<th>Date</th>
<th>Period</th>
<th>Population</th>
<th>Sample size</th>
<th>Serotypes HIV (%)*</th>
<th>HIV Frequences</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>1987</td>
<td>1</td>
<td>Prostitutes</td>
<td>30</td>
<td>10,53</td>
<td>78,95</td>
<td>10,53</td>
</tr>
<tr>
<td>1987</td>
<td>1</td>
<td>Prisoners</td>
<td>23</td>
<td>33,33</td>
<td>33,33</td>
<td>33,33</td>
</tr>
<tr>
<td>1987</td>
<td>1</td>
<td>Patients</td>
<td>42</td>
<td>33,33</td>
<td>66,67</td>
<td>0</td>
</tr>
<tr>
<td>1987-1988</td>
<td>2</td>
<td>Patients</td>
<td>480</td>
<td>40,74</td>
<td>24,07</td>
<td>35,19</td>
</tr>
<tr>
<td>1987-1988</td>
<td>2</td>
<td>Patients</td>
<td>316</td>
<td>32,5</td>
<td>27,5</td>
<td>40</td>
</tr>
<tr>
<td>1987-1988</td>
<td>2</td>
<td>Patients</td>
<td>164</td>
<td>64,29</td>
<td>14,29</td>
<td>21,43</td>
</tr>
<tr>
<td>1987-1989</td>
<td>3</td>
<td>Prostitutes</td>
<td>487</td>
<td>27,64</td>
<td>40,65</td>
<td>31,71</td>
</tr>
<tr>
<td>1987-1989</td>
<td>3</td>
<td>Prisoners</td>
<td>496</td>
<td>33,33</td>
<td>55,56</td>
<td>11,11</td>
</tr>
<tr>
<td>1987-1989</td>
<td>3</td>
<td>Patients</td>
<td>866</td>
<td>31,4</td>
<td>46,28</td>
<td>22,31</td>
</tr>
<tr>
<td>1987-1989</td>
<td>3</td>
<td>Pregnant women</td>
<td>588</td>
<td>22,22</td>
<td>77,78</td>
<td>0</td>
</tr>
<tr>
<td>1987-1989</td>
<td>3</td>
<td>Blood donors</td>
<td>687</td>
<td>60</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>1987-1989</td>
<td>3</td>
<td>Travellers</td>
<td>372</td>
<td>47,37</td>
<td>42,11</td>
<td>10,53</td>
</tr>
<tr>
<td>1987-1989</td>
<td>3</td>
<td>Women</td>
<td>1578</td>
<td>25,81</td>
<td>48,92</td>
<td>25,27</td>
</tr>
<tr>
<td>1987-1989</td>
<td>3</td>
<td>Men</td>
<td>1903</td>
<td>40,37</td>
<td>37,61</td>
<td>22,02</td>
</tr>
<tr>
<td>1987-1989</td>
<td>3</td>
<td>Housewives</td>
<td>780</td>
<td>18,75</td>
<td>64,58</td>
<td>16,67</td>
</tr>
<tr>
<td>Date</td>
<td>Period</td>
<td>HIV-1 (%)</td>
<td>HIV-2 (%)</td>
<td>HIV-1/2 (%)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>--------</td>
<td>-----------</td>
<td>-----------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1987-1988</td>
<td>2</td>
<td>40.74</td>
<td>24.07</td>
<td>35.19</td>
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<td></td>
</tr>
<tr>
<td>1987-1988</td>
<td>2</td>
<td>32.50</td>
<td>27.50</td>
<td>40.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1987-1988</td>
<td>2</td>
<td>64.29</td>
<td>14.29</td>
<td>21.43</td>
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<tr>
<td>1987-1989</td>
<td>3</td>
<td>31.40</td>
<td>46.28</td>
<td>22.31</td>
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<tr>
<td>1988-1992</td>
<td>4</td>
<td>55.91</td>
<td>18.11</td>
<td>25.98</td>
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</tr>
<tr>
<td>1990-1999</td>
<td>5</td>
<td>77.26</td>
<td>7.36</td>
<td>15.38</td>
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<td></td>
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<tr>
<td>2003</td>
<td>7</td>
<td>87.32</td>
<td>8.45</td>
<td>4.23</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Data columns for figure1
**Study without HIV1/2 data (not include in figure1 data)
N/A: not applied (because study population includes HIV patients only)
n (n1; n2; n1/2): frequencies of HIV (HIV-1; HIV-2; HIV-1/2)
P: prevalence
%: percentage

Table 3: Proportion of HIV-1, HIV-2 and HIV-1/2 infections in health care patients according to the study period
Figure 1: The trends of HIV infectious profiles in full populations studied (field Mali) in space and time.
**Figure 2:** The trends of HIV infectious profiles in sick patients (field Mali) in space and time

\[
y_{HIV-1} = 9.20x + 22.80 \\
R^2 = 0.6351
\]

\[
y_{HIV-2} = -3.81x + 34.47 \\
R^2 = 0.2895
\]

\[
y_{HIV1/2} = -5.39x + 42.74 \\
R^2 = 0.7344
\]
Characterization and Antibiotic Sensitivity Testing of Clinical Bacteria Species Isolated from Kunu Drink Sold in Rumuolumeni, Rivers State

By Okwelle, Austin Achinike

Abstract- The isolation, characterization and antibiotic sensitivity tests of some clinical bacteria species isolated from Kunu drink sold in Rumuolumeni, Rivers State was carried out. Samples of the Kunu drink was bought from vendors indifferent locations and their bacteriological counts enumerated using standard microbiological methods by the pour plate technique. The antibiotic sensitivity pattern of the pure bacteria isolates against some antibiotics was determined using the disc diffusion method. The total bacterial counts of the Kunu in the different locations ranged from $4.0 \times 10^2$ to $8.6 \times 10^2$ cfu/ml. Four species of bacteria including Escherichia coli, Enterohacter aerogenes, Staphylococcus aureus and Streptococcus spp were isolated and identified by grain staining and their biochemical reactions. The most prevalent isolate in terms of occurrence was Escherichia coli (50%) followed by Enterobacter aerogenes (30%), Staphylococcus areus (10%) and Streptococcus spp (10%).

GJMR-C Classification: NLMC Code: QW 50
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I. Introduction

According to Maji et al.,(2011), Kunu drink is a locally prepared indigenous non-alcoholic beverage normally prepared and consumed in large quantity in Nigeria, especially in the northern part of the country (Amusa and Aswaye, 2009). It can be consumed during the wet and dry seasons due to its thirst quenching properties. Umuru et al., (2014) reported that Kunu drink is sold in many public places such as markets, offices, schools, motor parks and as drinks during festival, weddings and naming ceremonies. It is an appetizer and food complement used to quench hunger (Adelekan et al., 2014). Kunu drinks are usually produced using maize, guinea corn, millet or sorghum in varying proportions (Maji et al., 2011) to which sweet potato sometimes is added to increase the taste of the Kunu, which is a major factor that attracts consumers to the product. This common drink is usually packaged and sold in 50ml to 1L plastic bottle and at times tied in some disposal polythene bags the drink is mostly consumed within 20-35 hours of production due to its poor keeping quality (Akoma et al., 2012). This drink is not expensive because the grains and other ingredients used for production are locally sourced. The packaging materials are also readily available, cheap and affordable within the communities.

Different workers have reported that Kunu is rich in vitamins, minerals, carbohydrates and proteins (Adebayo et al., 2010; Essien et al., 2009; Folasade & Oyenike, 2012). Oluwajoba et al.,(2013).also noted that the nutritional content of Kunu drink include protein (2.31-3.63%), fat (3.55-3.63%), ash (1.66-1.21%) and carbohydrate (82.92-83.55%). The health benefits of kunu drink is that, it lowers blood pressure and promotes good functioning of the heart, improves healthy pregnancy and adequate breast milk flow, boosts sperm count in men, relaxes personal mood and promotes good sleep and reduces menstruation pains for women.

The local kunu drink could act as a vehicle for food borne infections like Brucellosis, Tuberculosis, Shigellosis, Listeriosis and Staphylococcus etc. Most of the pathogens found in the drink such as *Staphylococcus* sp, *Bruceia* sp, *Pseudomonas* sp, Clostridium, *Salmonella*, *Vibrio cholerae* and *Escherichia coli* can lead to change in the physical and nutritional qualities of kunu. Also, activities of the natural food enzymes could also contribute in the spoilage of the final product. The high water content (about 85%) coupled with crude method of production and packaging under inadequate sanitary conditions can also predispose kunu drink to microbial contamination (Aya et al., 2010).

According to Mbachu et al., (2014), the short life of kunu drink is a major problem faced by the producers and consumers. The introduction of microbes into kunu...
II. Materials and Methods

a) Study Area
The study was conducted in Rumuolumeni, Port Harcourt, Rivers state, Nigeria. Port Harcourt lies between latitude 4°46'38.71"N and longitude 7°00'48.24"E and located in the tropical rainforest in Nigeria.

b) Collection of Sample
Five bottles of hawked kunu samples were bought from vendors in different locations in Rumuolumeni, properly labelled, placed in a sterile plastic container and transported to the Biology laboratory, Ignatius Ajuru University of Education for microbiological analysis.

c) Processing of Sample
The samples were mixed gently and 10ml of each was added to 90 ml distilled water with a clean pipette. The solution was mixed and diluted serially by transferring 1 ml of the stock sample into sterilized test tubes containing 9ml of peptone water. The procedure was repeated for the third and fourth test tubes to make a dilution of $10^3$ and $10^4$.

d) Preparation of Media
All the glassware used such as petri-dishes, conical flasks, test tubes and pipettes were washed with detergent, rinsed in water, dried and sterilized in the hot air oven at 60°C for 1 hour. Different culture media such as Nutrient Agar, MacConkey Agar, Salmonella-Shigella Agar (SSA), Trisulphate Citrate Bile Salt Agar (TCBS) and Manitol Salt Agar (MSA) were used for isolation. Each of the media was prepared by weighing out appropriate quantities according to the manufacturers instruction and dissolved completely in the required volume of distilled water. The media were autoclaved at 121°C for 15 minutes and allowed to cool at 45-50°C. The media was dispensed aseptically into the petri-dish plates and left on the table to solidify at room temperature.

e) Isolation and Preservation
Using a sterile loop, discrete colonies were all sub-cultured onto another media to obtain pure colonies. This was done by streaking a loopful of a particular isolate into freshly prepared culture media plates for bacteria. The sub-cultured nutrient agar plates were incubated at 37°C. Bacteria pure cultures were accordingly stored in sterile agar slants for preservation and further analysis at 4°C.

f) Identification of Isolates
The isolates were identified using gram staining and biochemical tests such as: motility test, urease test, citrate utilization test, indole test, oxidase test, coagulase test, catalase test, voge proskauer reaction and methyl red test. Identification was based on comparison of the characteristics of the isolates described by (Chess brough, 2006).

g) Antibiotic Susceptibility Test
The isolates were screened for antimicrobial sensitivity using the Kirby-Bauer agar disk diffusion method (CLSI, 2009). A suspension of each isolate was prepared in peptone water to match 0.5 McFarland turbidity standards in order to standardize the inoculum. The standardized inoculum of each isolate was inoculated onto the surface of plain Mueller-Hinton agar plates and Seprin (30 µg), Chloramphenicol (30 µg), Ciprofloxacin (5 µg), Amoxycillin (30 µg), Augmentin (30 µg) discs were placed and incubated at 37°C for 24 hours. The zones of inhibition were measured and compared with the Clinical and Laboratory Standards Institute.

III. Results

Table 1: Total bacteria count of kunu sold at the different location in Rumuolumeni Port Harcourt metropolis

<table>
<thead>
<tr>
<th>Location</th>
<th>Kunu</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>$5.1\times10^2$</td>
</tr>
<tr>
<td>B</td>
<td>$6.2\times10^2$</td>
</tr>
<tr>
<td>C</td>
<td>$4.6\times10^2$</td>
</tr>
<tr>
<td>D</td>
<td>$7.1\times10^2$</td>
</tr>
<tr>
<td>E</td>
<td>$4.1\times10^2$</td>
</tr>
<tr>
<td>F</td>
<td>$8.5\times10^2$</td>
</tr>
</tbody>
</table>

Keys: A= Waterside, B = Big tree market, C = Akar Junction, D = Iwofe school gate, E = St. John’s, F = Town Hall
The bacterial counts from the different samples of Kunu ranged from $4.6 \times 10^2 \text{cfu/ml}$ (which was the lowest recorded for St. John’s) to $8.6 \times 10^2 \text{ cfu/ml}$ enumerated in Town Hall.

### Table 2: Bacteria isolates identified from Kunu samples in different locations

<table>
<thead>
<tr>
<th>Locations</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bacteria Isolates</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Escherichia coli</em></td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><em>Staphylococcus aureus</em></td>
<td>+</td>
<td>_</td>
<td>_</td>
<td>+</td>
<td>_</td>
<td>+</td>
</tr>
<tr>
<td><em>Streptococcus spp</em></td>
<td>_</td>
<td>_</td>
<td>_</td>
<td>_</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td><em>Enterobacteria aerogenes</em></td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>_</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

**Keys:** A = Waterside, B = Big tree market, C = Akar Junction, D = Iwofe school gate, E = St. John’s, F = Town Hall

Table 2 shows the bacterial species isolated from samples of Kunu drinks sold at the different locations in Rumuolumeni. The isolates were *Escherichia coli*, *Staphylococcus aureus*, *Streptococcus spp.* and *Enterobacter aerogenes*. *Escherichia coli* was the most predominant isolate with very high percentage occurrence (100%), followed by *Enterobacter aerogenes* (70%) and *Staphylococcus aureus* had the least occurrence (30%).

**Plate 1:** Bacterial colonies growing on petri dish plates
Table 3: Antibiotic resistance pattern of bacteria isolates from Kunu drink

<table>
<thead>
<tr>
<th>Antibiotics Conc. (µg)</th>
<th>Escherichia coli</th>
<th>Enterobacter Aerogenes</th>
<th>Strept. spp</th>
<th>Staphylococcus Aureus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Septrin 30</td>
<td>68.7</td>
<td>14.3</td>
<td>0.0</td>
<td>16.7</td>
</tr>
<tr>
<td>Chloramphenicol 30</td>
<td>75.0</td>
<td>21.4</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Sparfloxacin 5</td>
<td>68.7</td>
<td>35.7</td>
<td>33.3</td>
<td>16.7</td>
</tr>
<tr>
<td>Ciprofloxacin 5</td>
<td>50.0</td>
<td>7.1</td>
<td>33.3</td>
<td>16.7</td>
</tr>
<tr>
<td>Amoxicillin 30</td>
<td>12.0</td>
<td>35.7</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>Augmentin 30</td>
<td>25.0</td>
<td>50.0</td>
<td>33.3</td>
<td>0.0</td>
</tr>
<tr>
<td>Gentamicin 10</td>
<td>12.0</td>
<td>14.3</td>
<td>0.0</td>
<td>33.4</td>
</tr>
<tr>
<td>Pefloxacin 10</td>
<td>0.0</td>
<td>42.9</td>
<td>0.0</td>
<td>33.4</td>
</tr>
<tr>
<td>Tarvid 30</td>
<td>31.3</td>
<td>28.8</td>
<td>38.3</td>
<td>0.0</td>
</tr>
<tr>
<td>Streptomycin 10</td>
<td>31.3</td>
<td>14.3</td>
<td>33.3</td>
<td>16.7</td>
</tr>
</tbody>
</table>

Table 3 shows the Antibiotic resistance pattern of the bacterial species isolated from Kunun drinks sold in Rumuolumeni, Port Harcourt metropolis. *E. coli* exhibited very high percentage resistance to chloramphenicol (75.0%) followed by Septrin (68.7%) and Sparfloxacin (68.7%) respectively, whereas there was no resistance to Perfloxacin (0.0%). The highest percentage resistance for *Enterobacter aerogenes* was recorded with Augmentin (50.0%) and the least resistance was recorded with Ciprofloxacin (7.1%). The percentage resistance *Streptococcus* spp. isolated was relatively low which ranged from 38.3% to 33.3% for the antibiotics to which this species showed resistance (Trivid, Sparfloxacin, Ciprofloxacin, Augmentin and Streptomycin). However, the isolates of the *Streptococcus* spp. showed completely no resistance (0.0%) to Septrin, Chloramphenicol, Amoxicillin, Gentamicin and Perfloxacin. Similarly, the percentage resistance of *Staphylococcus aureus* isolated was relatively low which ranged from 33.4% to 16.7% for the antibiotics to which these isolates showed resistance (Gentamicin, Pefloxacin, Septrin, Sparfloxacin, Ciprofloxacin and Streptomycin).

IV. Discussion

The relative high numbers of microbial counts obtained from the different samples of kunu in the study were indicative of high level of microbial contamination of the prpduct. The Kunu sold at Town Hall had the highest counts of $8.6 \times 10^{6}$ cfu/ml, while the one from St Johns location had the lowest counts of $4.0 \times 10^{6}$ cfu/ml. The high microbial counts experienced may be attributed to lack of effective precautions on hygiene practice in handling procedures during processing of the beverage. The practice of addition of some quantity of water to Kunu after fermentation may also be a source of microbial contaminants, which may have come from the water itself or from the utensils used for such purposes. In an earlier report, Amusa and Ashwaye (2009) had stated that the presence of coliforms such as *Escherichia coli* in hawked Kunu was as a result of contaminated water, containers, as well as dirty environment where the Kunu were being processed and hawked. The identification of *Escherichia coli*, *Staphylococcus aureus*, *Streptococcus* spp and *Enterobacter aerogenes* in the samples analyzed is a positive sign to the fact that the Kunu drink sold in the different locations in the community was contaminated with potentially pathogenic bacteria and this may have come from the water used for domestic purposes, or the human handlers during processing and sales of the product, respectively. This is in agreement with Amusa and Ashwaye (2009) and Akoma et al., (2013), who had noted that water used for production coupled with the crude method of production and packaging under improper sanitary conditions predisposes Kunudrink to microbial contamination of both gram negative and gram positive bacteria. The source of contamination may also have come from the spices used additives (Essien et al., 2009, Lawal, 2012). There is therefore need for surveillance by Public Health officials to ensure safety of the Kunu sold for to public. There is need to also ensure that the water used for production especially post-heating processing of the Kunu is safe and free from microbial contaminants.

Antibiogram of the isolates revealed varying levels of resistance to the antibiotics tested. *Escherichia coli* showed high resistance to chloramphenicol (75%), followed by Septrin (68.7%) and Sparfloxacin (68.7%), while *Enterobacter aerogenes*, *Streptococcus* spp and *Staphylococcus aureus* had low rates of resistance to all.
the antibiotics tested. However, *E. coli* had very high sensitivity to Pefloxacin (100%), followed by Gentamicin (88%), Augmentin (75%), tarivid (68.7%) and Streptomycin (68.7%). *Streptococcus* spp were the most susceptible isolates which had very high sensitivity (100%) to five of the antibiotics tested, namely, Septrin, Chloramphenicol, Amoxicillin, Gentamicin and Pefloxacin, respectively. *Staphylococcus causerus* was also very sensitive (100%) to Chloramphenicol, Amoxicillin and Tarivid, respectively. The sensitivity of these isolates to the antibiotics used are comparable to earlier reports (Falagas et al., 2010, McGeer et al., 2010 & Omeke et al., 2019). The prevalence of resistant strains of *E. coli, Enterobacter aerogenes, Streptococcus* spp and *Staphylococcus aureus* in Kunu is a reflection of the use and misuse of the antibiotics in the society. This is not surprising because outside the hospital environment, the general populace have access to various kinds of antibiotics at any drug store even without any prescription from a medical practitioner. The Public Health implication of this study is that antimicrobial resistant strains of pathogenic bacteria may colonize the human population through consumption of contaminated Kunun and this would lead to chemotherapeutic failures among the human consumers of this popular beverage in the Rumuolumeni, Port Harcourt metropolis.

V. Conclusion

The presence of resistant strains of *E. coli, Enterobacter aerogenes, Staphylococcus aureus* and *Streptococcus* spp in Kunun sold in Rumuolumeni suggests that consumption of this beverage has potential health hazard to the consumers in Rumuolumeni, Port Harcourt, Nigeria. The consumers of this popular drink are therefore at health risk, which may culminate into failures of commonly used clinical antibiotics for the treatment of the infections.

References Références Referencias

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Winnicott from then to Now and the False Self

By Valdecir de Godoy Borges

Abstract- Starting with a very small analysis of the influences of Freud (Sigmund Freud 6 May 1856 in Freiberg to 23 September 1939 in London) in the studies of psychoanalysis that were the starting point for the others (metapsychology: point of view. Topic Page "Dynamic" Dynamic in conflict "Freud's studies on the switches studies of understanding its functioning and the particular external and internal actions that form the individual's psyche this initial understanding that guides all or almost every other way of conceiving of mechanism understanding these forms of internal forces of the human being Lacan said "I am Freudian you if you want to be Lacanians" curiously, we have a tendency to link studies and other things to our daily lives to aspects of our routine in the Case of Donald Woods Winnicott (Plymouth, April 7, 1896-January 28, 1971) Winnicott was a pediatrician so it is not strange that his retrieved focus is on the initial process of human development. In these developmental processes, there are many disagreement points between within the thought of psychoanalytic schools. If we think of a fact of the psychoanalytist's position, for the most part, let us say in the course of the analysis, we can say that in other schools the analyst has more of the father's position while in the Winnicottian psychoanalytic clinic the analyst for most of the course of the sessions has a mother's position.

GJMR-C Classification: NLMC Code: QW 4

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Winnicott from then to Now and the False Self

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I. Introduction

Antisocial tendency is linked to the child's development period when it establishes relationships with the mother, who is defined as a good-enough mother and not-good-enough mother. When the child does not receive all the care that the mother should give, the child extrapolates this lack of care necessary for the appropriate development. Such lack, such absence, makes the child develop these anti-social characteristics, such as stealing, such as having a more introverted behavior. The anti-social process is more easily reversible, having in mind that this process, when installed in the child has some consequences such as: gradual loss of creativity, increase in irritability, bearing in mind that irritability in the child may also be associated with depression, commitment to School development and commitment to social development.

In the case of delinquent behavior, we already have a negative evolution of the framework that started anti-social and evolved to mechanisms that the child developed in time. Dealing with these mechanisms of behavior acquired in this delinquency period is harder, as it requires a return to the cause that generated and triggered this process, noting that, according to Winnicott, it results from this lack of care offered by the mother, who was not good enough.

I also emphasize that, in the Winnicottian interpretation, delinquency is an evolution in a worse diagnosis of antisocial behavior within a more favorable plan for the patient. It is always appropriate to start treatment in the early stages of antisocial behavior thinking, in this respect, that both have the same causal root, which is the lack of something when the mother was not good enough. In the case of delinquency, it is considered a worsening of the condition, with fixation of symptoms and structures that tend to keep the individual in a pathological emotional state, being classified as having worse diagnosis and greater psychotherapeutic difficulty.

A brief philosophical question of Martin Heidegger. “the ability of the being to question itself”. This existentialist philosophy would have influenced the thinking of some psychoanalysts, as it probably influenced Winnicott. “Heidegger’s Thought on the Being and Winnicottian Psychoanalysis of the Maturing Happening”. According to Martin Heidegger, the being is capable of self-questioning, it is capable of understanding and looking in the mirror, facing itself and analyzing itself. Heidegger calls it “there-being”, a short-sighted being in the world. It is important to understand this Being in the Winnicottian view, because in the case of a Being in development, not yet having the neurological capacity to distinguish Being from the mother or anyone else, this “there-being” tends to suffer from these lacks of the not-good-enough mother and to pay a price during its lifetime for these affective and emotional exclusions.

II. Bibliographic Review

We will start these studies with the thought of the child’s integration with itself and with the environment of which he is a part, which receives and also gives back stimuli. Such stimuli build and enable internal parts and parts of the external environment to make this being integrate and constitute itself as an individual in an internal context and an internal context.

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e-mail: marxboetilia@gmail.com
These influences frame this being, in this case, the constitution of the EGO. I will enter, to guide my studies, into the root of all psychoanalysis. Yes, let's talk about Sigmund Freud who, at the very least, is the passion of, I will not say all, but almost all psychoanalysts. The Freudian root defines EGO as "the character of the self", which is a "precipitated of abandoned object cathexes and (...) contains the history of these object choices" (FREUD, 1923, p. 43 - 44).

"The self is formed from identifications that take the place of cathexes abandoned by the Id (FREUD, 1923, p. 64)"

About the integration processes, "An adequate environment, free from violence, drugs or extreme poverty, allows children and adolescents to develop their social, physical and psychological potentials more harmoniously, it being up to parents or guardians to provide such conditions". (WINNICOTT, 1988.) Note that it is clear that, in this period of EGO formation, the child does not have a superEGO either. In this case, people around him who have this superego role, such as father, mother, brother, etc.

It is interesting that, for Winnicott, the formation of the self is strictly linked to the good-enough-mother and in details such as: if the mother does not pass the female part, the child will have difficulties in constituting and understanding itself as a being, that is, an integral part the constitution of the EGO; if the mother does not give him male training, the child will have difficulty dealing with the internal environment. In other words, in other theories, the EGO is the part of the psychic apparatus that interacts with the external environment and that receives impulses from this external environment that affect and interact with the psychic apparatus. We could say, in the case of the Winnicottian theory, that the mother exercises in her child and for her child, in the first moment, the superego and also the EGO. It is as if the developing being borrows this Topic, or parts of this Topic, from the mother, which in this case is the psychic apparatus. As a free thought, I'm imagining the power that the internet and video games have today on children who are very exposed to games and the internet, with multiple contents. What would be the influences of these factors, so that they can take the place, or better, make up for the absence of a good-enough mother, in the formation of the EGO?

If you allow me to be bold, the EGO is always in the external environment, the ego is always in the other subject, the EGO is made up of small parts that are in the external environment. It is up to the good-enough mother to integrate them, or to suggest integration, so that the developing being creates, from these receipts, its own self.

If you allow me to be bold, the EGO is always in the external environment, the ego is always in the other subject, the EGO is made up of small parts that are in the external environment. It is up to the good-enough mother to integrate them, or to suggest integration, so that the developing being creates, from these receipts, its own self.

III. Conclusion

Given the facts of studies of the good-enough mother and the not-good-enough mother, it can be concluded that the latter brings great harm, many of which are extremely damaging to the individual. It is concluded that this formation of another Self as a protective mechanism of the SELF, in the vast majority of cases, suffocates the true SELF, assuming this false Self with a false hope, in order to ensure survival of the true SELF. After a while this is always a worse prognosis, as the false Self may suffocate the true SELF, where it is no longer possible to find it in the person.

Daseins analyze ontological model

Ontology (from the Greek ontos and -logy, "logical speech"; in the ensemble, "science of being"), is part of the metaphysics that deals with nature, reality and existence. False and true self, authentic life and non-authentic life.

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Antibacterial Efficacy of Pap Slurry Liquor on Some Diarrhogenic Organisms

By Yusuf, Lamidi

Kogi State University

Abstract - The antibacterial potential of pap slurry liquor on four diarrheal associated organisms (Escherichia coli, Staphylococcus aureus, Salmonella typhi, and Shigella dysenteriae) was screened for. The pap slurry liquor was obtained in the laboratory from a pap (made from yellow Zeamays grains) which was allowed to ferment at ambient temperature of 28±1°C for 72 hours at relative humidity 75±5% by the maize natural microflora. The in vitro screening of different concentrations (100, 90:10, 80:20, 70:30 and 60:40 v/v) of the pap slurry liquor on the test isolates that was carried out using disc diffusion method, revealed a linear relationship antibacterial activities on all the test isolates. The minimum inhibitory concentration was observed at 90:10 v/v for E. coli and S. aureus and 80:20 v/v for S. typhi and S. dysenteriae while the minimum bactericidal concentration was observed at100v/v for E. coli and S. aureus and 90:10 v/v for S. typhi and S. dysenteriae. All the data obtained were subjected to one way analysis of variance at 0.05 significant levels using the New Duncan’s Multiple Range Test. The results from this study showed the antibacterial efficacy of pap slurry on the test isolates and therefore could be used in the treatment of diarrhea caused by these selected pathogens.

Keywords: pap slurry, antibacterial, diarrheal, organisms.

GJMR-C Classification: NLMC Code: QW 4

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Antibacterial Efficacy of Pap Slurry Liquor on Some Diarrhetic Organisms

Yusuf, Lamidi

Abstract: The antibacterial potential of pap slurry liquor on four diarrheal associated organisms (Escherichia coli, Staphylococcus aureus, Salmonella typhi, and Shigella dysenteriae) was screened for. The pap slurry liquor was obtained in the laboratory from a pap (made from yellow Zeamays grains) which was allowed to ferment at ambient temperature of 28±1°C for 72 hours at relative humidity 75±5% by the maize natural microflora. The in vitro screening of different concentrations (100, 90:10, 80:20, 70:30 and 60:40 v/v) of the pap slurry liquor on the test isolates that was carried out using disc diffusion method, revealed a linear relationship antibacterial activities on all the test isolates. The minimum inhibitory concentration was observed at 90:10 v/v for E. coli and S. aureus and 80:20 v/v for S. typhi and S. dysenteriae while the minimum bactericidal concentration was observed at100v/v for E. coli and S. aureus and 90:10 v/v for S. typhi and S. dysenteriae. All the data obtained were subjected to one way analysis of variance at 0.05 significant levels using the New Duncan’s Multiple Range Test. The results from this study showed the antibacterial efficacy of pap slurry on the test isolates and therefore could be used in the treatment of diarrhea caused by these selected pathogens.

Keywords: pap slurry, antibacterial, diarrheal, organisms.

I. Introduction

Pap slurry is a fermentation product from cereals found predominantly in Southern Nigeria and is usually the first native food given directly or supplemented with other food sources to babies at weaning. Ajanaku and Oluwolaye (2013) reported the use of pap slurry as a weaning food in western Nigeria to supplement breastfeed. It has also been shown that pap liquor has both anti-bacterial (Adebolu et al., 2007) and antifungal properties (Ogunbanwo et al., 2003). It is usually prepared from fermented maize, sorghum or millet in West Africa (Akingbala et al., 2012). It is a popular breakfast cereal and infant weaning food in Nigeria (Akingbala et al., 2012).

In most rural communities, where they do not have access to orthodox medicine, all kinds of plants or raw materials are exploited to take care of the different health challenges they encounter. For example in some communities in the Southwest Nigeria, uncooked pap slurry, which is a Nigerian fermented food made from cereal grains such as maize (Zea mays) is used traditionally for the relieve of stomach discomfort and diarrhoea by the rural people. Olukoya et al., (2012)

when carrying out research observed that pap slurry has antibacterial activity against common diarrhoeagenic bacteria and that the presence of Lactobacillus in the slurry was responsible for its effect. Adebolu, (2007) in her own contribution however reported that not only the slurry but the liquor also plays a significant antibacterial activity against diarrheagenic bacteria and that the growth inhibitory activity was more potent than the slurry on most of the organisms tested.

Moreover, Adebolu, (2007) has observed that the fermentation duration of pap slurry plays a significant role in the growth inhibitory activity of the liquor on susceptible organisms. Furthermore, Adebolu and Adaramola (2012) observed that the mode of fermentation, whether continuous or discontinuous at every 24 h at 30 ± 2 °C, plays a significant role in the inhibition. Although, a lot of work has been done on the antibacterial activity of the slurry of pap, more is still desired so that all necessary scientific intricacies will be taken care of for its usage to be maximally exploited. This present work therefore will help to determine the factors present in the slurry of fermented maize responsible for its antibacterial activity on the selected diarrhea causing bacteria and which one of the factors is the most effective.

Bacteria are known to cause gastrointestinal infections globally. Treatment of infections caused by these organisms is difficult because most bacteria causing infections have developed resistance to most of the conventional antibiotics, and therefore there is the need to search for alternative therapy to treat infections caused by these organisms, hence the pap slurry.

II. Materials and Methods

Materials include: conical flask, beaker, petri dishes, test tubes, distilled water, methanol, Mueller Hiltonagar (MHA), wire loop, aluminum foil, cotton wool, spatula, autoclave, incubator, weighing balance, McCartney bottles, physiological saline, Bunsen burner and pipette.

a) Sterilization of glass wares

All glass wares were thoroughly washed with detergent and rinsed with distilled water, dried in hot-air oven and then sterilized at 60 °C for 1-2 hours. The work bench surface was disinfected before and after carrying out any experiment to avoid contamination and to ensure aseptic working condition.

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b) *Preparation of culture media*

All culture media were prepared according to manufacturer’s specification. After proper dissolution the, the media was sterilized in an autoclave at 121°C for 15 minutes. The sterile medium was allowed to cool to about 45°C before dispensing into sterile petri dishes.

c) *Fermentation of pap to obtain its liquor*

The Yellow maize (*Zea mays*, grains) was purchased at a local market in Anyigba Kogi State, Nigeria. Using a modified method of Odunfa and Adeleye (1985), the maize grains were carefully sorted by hand picking damaged and infested grains and pebbles, after which they were washed in sterile distilled water to remove dirt. Certain amounts (2 kg) of the clean maize grains were steeped in two liters sterile water which was sufficient to cover the grains to avoid contamination. The steeped maize was left at room temperature (28 ±2°C) for spontaneous fermentation to take place. At about 45°C before 15 minutes. The sterile medium was allowed to cool to the end of the fermentation, the liquor of the fermented maize grains was collected in a clean plastic container and left for 72 hrs at room temperature (28 ±2°C) for spontaneous fermentation to take place. At the end of the fermentation, the liquor of the fermented maize slurry (i.e the supernatant solution) which was locally called ‘Omi-ogi’ was decanted into a sterile container for analysis.

d) *Test organisms*

The Stock cultures of the clinical isolates used for this study were obtained from Medical Laboratory, Kogi State, University Teaching Hospital, Anyigba and confirmatory tests were carried out at the Microbiology Laboratory of the same university.

e) *Confirmatory test on isolates*

i. *Indole test*

The colonies were added into peptone water and incubated for 24 hours at 37°C after which 3 drops of kova’s indole reagent was added and shaken gently. A red colour development within a minute indicated a positive test.

ii. *Motility test*

The motility test was carried out using a glass slide and a cover slip. Vaseline gel was used to form a ring on the slide and a loopful of the fluid culture (growing on peptone water) was transferred on the cover slip. The slide was inverted over the cover slip so that it adheres to the Vaseline gel, the slide was turned quickly so that the drop does not touch the slip or Vaseline gel. It was observed under a light microscope for characteristics movement.

iii. *Citrate utilization test*

A broth culture of the test organism was incubated in 3ml of koser’s citrate medium at 37°C for 3 days. It was checked daily for growth. Presence of blue colouration and turbidity indicated a positive test.

iv. *Urease test*

A tube of sterile motility-indole-urea (MIU) medium was inoculated with the colony of test organisms. An indole paper strip was placed in the neck of the MIU tube above the medium and it was incubated at 37°C overnight. Production of urease was indicated by a red-pink colour in the medium.

f) *Gram staining*

A heat fixed of each Organism was made after which crystal violet was applied for 1-2 minutes and washed with water. The slide was flooded with Gram’s iodine for 1 minute and washed with water. The slides were held in slanting positions while absolute alcohol solution was flooded over it until the blue colouration leaves the smear; it was flushed with water and drained. The slide was then counterstained with safranin solution for 30 seconds and washed under slow running water. It was blotted and observed under a light microscope. Gram negative organisms stained red or pink colouration while Gram positive organisms stained blue.

g) *Preparation of cell suspension*

Using physiological saline, cell suspensions was prepared to give concentrations equivalent to McFarland No7 (2.1×10⁹ cells/ml). Then, 0.01ml of organisms was used for further inoculation in further testing.

h) *Preparation of liquor concentration*

A 9 ml of pap slurry liquor concentration was diluted in 1ml of sterile distilled water to make a concentration of 90: 10v/v. Other concentration (80:20, 70:30 and 60:40 v/v) was also made following the same procedure.

i) *Antibacterial screening of the liquor*

The surface of the MHA plate was inoculated with the test organisms. Inoculum was standardized by matching the turbidity with 0.5% McFarland standard and then with a sterile cotton swab stick, the test culture was spread evenly over the plate successively in three directions to obtain an even inoculum. The plate was allowed to gel for 3–5 min. The filter papers discs (6 mm, with average fluid uptake 18 µl) prepared were impregnated into different concentrations of the pap slurry. Commercially available readymade antibiotic disc (cephalexin) was placed on the surface as control and filter paper disc (6mm) impregnated in sterile distilled water was used as the negative control. The plate was incubated overnight at 37°C and the zone of inhibition was measured.

j) *Determination of minimum inhibitory concentration (MIC)*

Tube dilution method was used in the determination of MIC. The MIC was determined for each
of the test organisms at the varying concentrations of the liquor. Each test organism was inoculated into the labeled tube by taking a loopful of the standardized bacterial suspension using a flame sterilized wire loop and was incubated at 37 °C for 24 hours.

The lowest concentration where no turbidity was observed was recorded as the MIC.

k) Determination of minimum bactericidal concentration (MBC)

The minimum bactericidal concentration was determined using standard method. The tubes that showed no visible growth from the test tubes used in the determination of MIC, were sub cultured onto freshly prepared Mueller Hinton agar and incubated at 37°C for 48 hrs. The least concentration at which the organisms did not recover and grow was taken as the MBC.

l) Data analysis

All the data obtained were subjected to one way analysis of variance at 0.05 significant levels using the New Duncan’s Multiple Range Test.

### III. Results

#### Table 1: Antibacterial effect of pap slurry liquor on the selected diarrheal associated organisms

<table>
<thead>
<tr>
<th>Concentrations v/v</th>
<th>Mean Zones of inhibition (mm) ± SE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E.coli</td>
</tr>
<tr>
<td>100</td>
<td>15.0±0.33g</td>
</tr>
<tr>
<td>90:10</td>
<td>13.0±0.00f</td>
</tr>
<tr>
<td>80:20</td>
<td>7.0±1.16d</td>
</tr>
<tr>
<td>70:30</td>
<td>5.0±0.00c</td>
</tr>
<tr>
<td>60:40</td>
<td>3.0±1.67b</td>
</tr>
<tr>
<td>CN(25µg)</td>
<td>16.0±0.00g</td>
</tr>
<tr>
<td>SDW</td>
<td>0.0±0.00a</td>
</tr>
</tbody>
</table>

Key: CN = cephalaxin SDW = Sterile distilled water

Each value is the mean of three replicates, mean with the same letter are not significantly different (P>0.05) from each other, using New Duncan’s Multiple Range Test.

#### Table 2: Minimum inhibitory concentration of the pap slurry liquor on the test organisms

<table>
<thead>
<tr>
<th>Concentration v/v</th>
<th>Test of organisms</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E.coli</td>
</tr>
<tr>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td>90:10</td>
<td>-</td>
</tr>
<tr>
<td>80:20</td>
<td>+</td>
</tr>
<tr>
<td>70:30</td>
<td>+</td>
</tr>
<tr>
<td>60:40</td>
<td>+</td>
</tr>
</tbody>
</table>

Key: - = no growth recorded. + = growth recorded

#### Table 3: Minimum bactericidal concentration of the pap slurry liquor against the test organisms

<table>
<thead>
<tr>
<th>Test organisms</th>
<th>MBC v/v</th>
</tr>
</thead>
<tbody>
<tr>
<td>E.coli</td>
<td>100</td>
</tr>
<tr>
<td>Salmonella thyphii</td>
<td>90:10</td>
</tr>
<tr>
<td>Staphylococcus aureus</td>
<td>100</td>
</tr>
<tr>
<td>Shigelladysenteriae</td>
<td>90:10</td>
</tr>
</tbody>
</table>

### IV. Discussion

Pap slurry liquor used in this study had antibacterial activities against all the test bacteria isolates at varying concentrations. A dose dependent relationship was observed. This was evident by the clear zones of inhibition produced by the liquor on the bacteria growth (Table 1). The reports of Oyetayo and Osho (2004) and Aderiye et al., (2007), showed the antibacterial properties of maize pap slurry liquor in vitro on some organisms. In this study, the highest inhibition was recorded against Gram-negative E.coli which was most susceptible to the pap slurry liquor with the maximum zone of inhibition 15 mm at 100 v/v.
ABSTRACT

This study investigated the antibacterial efficacy of pap slurry liquor obtained from maize in the treatment of diarrheal disorders. The study was conducted at the Department of Microbiology, Faculty of Life Sciences, University of Ilorin, Ilorin, Nigeria. A total of 50 diarrheal diarrheal isolates were tested for their sensitivity to pap slurry liquor. The results showed that pap slurry liquor from maize was able to inhibit growth of the bacteria at lower concentrations (Table 1).

V. Conclusion

The results from this study showed that pap slurry liquor from maize (Zea mays) was potent against the diarrheal associated isolates tested. The findings in this study justifies the use of pap slurry liquor in the treatment of diarrhea in folklore medicine and the use could be adopted as well since it is cheaper and good source of potent probiotics. However further investigation should be conducted on the maize crop to ascertain the active antimicrobial compounds and the probable mode of actions.

References

Perfil Antropométrico E Estilo De Vida Dos Acadêmicos De Medicina

By Eduarda Eugenia Dias de Jesus & Pedro Jorge Cortes Morales


Palavras-Chave: medicina, estilo de vida, antropometria, acadêmicos.

GJMR-C Classification: NLMC Code: QW 4
Perfil Antropométrico E Estilo De Vida Dos Acadêmicos De Medicina

Eduarda Eugenia Dias de Jesus & Pedro Jorge Cortes Morales

Resumo- O estudo teve por objetivo analisar o perfil antropométrico e estilo de vida dos acadêmicos de medicina. Caracteriza-se como modelo de campo transversal e investigação exploratória descritiva. Os participantes foram compostos por 69 acadêmicos, sendo 45 do gênero feminino e 24 masculino, do curso de medicina da Universidade Região de Joinville/SC (Univille). O instrumento de pesquisa foi aplicado o questionário do Perfil do Estilo de Vida Individual (PEVI) dos autores Nahas, Barros e Franco (2000, p. 56), com 15 questões fechadas. Optou-se também pela coleta dos dados de dobras cutâneas para determinação do percentual de gordura corporal foram utilizados os protocolos de Petroski (1995) para densidade corporal e Siri (1961). O somatotipo foi elaborado conforme Heath–Carter, "Anthropometric Somatotype Manual" (CARTER, 2002), para classificação do tipo físico da amostra. Os dados foram transferidos para o programa SPSS®, Observando o resultado do IMC, os acadêmicos se classificam como "peso normal". Já o %G revela os homens apresentam 17,97 e as mulheres 23,47, estando estando classificados "Acima da média". Estatisticamente, foi encontrada uma correlação moderada no gênero masculino e uma correlação forte no gênero feminino, entre %G associado com IMC (p<0,05). Com relação ao estilo de vida, os componentes de comportamentos preventivos e relacionamento social se encontram com score positivo e a atividade física com score negativo. Nesse sentido, conclui-se que é de fundamental importância os acadêmicos buscarem estratégias para um estilo de vida benéfico e acompanhearem os resultados antropométricos, para não prejudicar a saúde, assim como o tempo na graduação.

Palavras-Chave: medicina, estilo de vida, antropometria, acadêmicos.

1. Introdução

A medicina é um dos cursos mais concorridos pelas instituições que possui uma carga horária extensa, e muitos dos estudantes dedicam-se horas semanais ao estudo fora da sala de aula (MCKERROW et al., 2020), enfrentando várias avaliações e trabalhos durante o curso, gerando demandas que interferem diretamente no estilo de vida (DAS, BHATTACHARYA; CHAKRABORTY, 2020; WILF-MIRON, KAGAN; SABAN, 2021).

As mudanças drásticas nos hábitos de vida dos acadêmicos de medicina acabam acarretando no comportamento dos mesmos, podendo provocar alterações preocupantes durante a graduação ou, até mesmo, na atuação profissional (SAFAIE et al., 2020; SHAO et al., 2020; CHAKRABORTY, 2020).

Comportamentos esses que estão relacionados à alimentação rica em gorduras e ao excesso de consumo de produtos industrializados, ou até mesmo, o estresse diário provocado pelos meios de transporte, a falta de sono ou tempo para atividade física e as demais burocracias impostas (ALOTAIBI et al., 2020; MCKERROW et al., 2020).

Compreende-se que os acadêmicos de medicina precisam garantir uma segurança nos hábitos saudáveis, e quanto mais cedo houver uma conscientização com relação ao estilo de vida, poderá mais rápido usufruir de benefícios em longo prazo (FAN et al., 2020; BERMEJO; STIEGMANN, 2020). A literatura científica ressalta a importância da orientação aos estudantes de medicina para um estilo de vida mais saudável, permitindo uma conciliação com os estudos e o cuidado com a saúde (WILF-MIRON, KAGAN; SABAN, 2021; FAN et al., 2020).

Os jovens anseiam por reduzir a quantidade de gordura corporal ou aumentar a quantidade de massa muscular. Deste modo, para se obter informações seguras sobre o corpo e os hábitos saudáveis adquiridos, o melhor caminho está associado à avaliação física, como por exemplo a composição corporal e somatotipo (TUR; BIBILONI, 2019).

A composição corporal pode ser dividida em dois grupos: massa magra e massa gorda, sendo possível ter um acompanhamento mais detalhado, com precisão e confiança (TUR; BIBILONI, 2019). Entretanto, com a somatotipia é possível acompanhar e detectar o desenvolvimento durante o crescimento físico. Essa característica biotipológica pode ser dividida em: ectomorfa, mesomorfa e endomorfa (SÁNCHEZ-MUNOZ et al., 2020). Tendo em consideração, a composição corporal e o somatotipo, ambos estão relacionados diretamente com a saúde, se tornando necessária para qualquer indivíduo.

Diante disso, é fundamental o acadêmico passar por uma avaliação física, para desfrutar de um estilo de vida com satisfação sobre sua saúde e aquilo que estuda ao longo da graduação (BERMEJO; STIEGMANN, 2020). Entendendo também que o estilo...
de vida deve ser acompanhado de hábitos vantajosos, uma vez que esse tema deve ser colocado entre as necessidades de saúde (MAINI, FYFE; KUMAR, 2020).

Além disso, a obtenção dos dados coletados dos acadêmicos de medicina serve como referência para a prática no ensino, podendo assim encontrar artefatos ao discutir uma melhor solução para a saúde no geral. Nesse contexto, este estudo teve por objetivo analisar o perfil antropométrico e estilo de vida dos acadêmicos de medicina.

II. MATERIAIS E MÉTODOS

Este estudo caracteriza-se como modelo de campo transversal e investigação exploratória descritiva. Os participantes foram compostos por 69 acadêmicos, sendo 45 do gênero feminino e 24 masculino, do curso de medicina da Universidade Região de Joinville/SC (Univille). A triagem dos participantes se deu por convite pessoal, tornando a escolha intencional e constituindo assim, uma amostragem por conveniência.

O primeiro instrumento de pesquisa foi aplicado o questionário do Perfil do Estilo de Vida Individual (PEVI) dos autores Nahas, Barros e Francalacci (2000, p. 56), com 15 questões fechadas (de “a” até “o”), divididas em cinco componentes (nutrição, atividade física, comportamento preventivo, relacionamento social e controle do estresse), conforme o Quadro 1.


Optou-se também pela coletados dos dados de dobras cutâneas através do uso de um plicômetro científico da marca Cescorf com precisão de 1mm; Estatura com a utilização de um estadiômetro de dois metros de comprimento da marca Cescorf com precisão de 1mm; Peso corporal total com a utilização de uma balança digital marca Tanita com precisão de 100g; Diâmetros ósseos com a utilização de um paquímetro antropométrico da marca Cescorf com precisão de 1mm e Circunferências com uma trena de metal de 0,7mm de largura, flexível e com precisão de 1mm.

Os locais padronizados para medições são: Diâmetros (bi-epicondiliano do úmero e bi-epicondiliano do fêmur), Dobras cutâneas ( supra-espinhal, subescapular, tríceps, supra-ilíaca, panturrilha medial, axilar média e coxa) e Circunferências (do braço e da perna). Todas as coletas foram realizadas do lado direito do avaliado, respeitando as recomendações gerais dos protocolos.

15% e para mulheres 23%, “Abaixo da Média” para homens é de 6-14% e para mulheres 9-22% e “Acima da Média” para homens é de 16-24% e para mulheres 24-31%.


Antes de iniciar os procedimentos para as aplicações de ambos os instrumentos, no primeiro momento, foi feita uma reunião com os acadêmicos de medicina, em sala de aula, onde os mesmos foram informados sobre o objetivo e o que se espera com os resultados da pesquisa. Ao confirmarem, foram entregues Termo de Consentimento Livre e Esclarecido (TCLE) para assinarem e estarem cientes dos riscos e benefícios.

Os acadêmicos incluídos na pesquisa foram os que estavam matriculados no curso de medicina da Univille de Joinville/SC e que aceitaram participar da pesquisa, entregando o TCLE assinado.

Devido a existência do novo coronavírus (SARS-CoV-2), o isolamento social, na região de Joinville/SC iniciou no dia 16 de março. Entretanto, este estudo teve início em junho de 2021, devido às questões relativas à liberação ética, e segurança dos envolvidos. Desta maneira, para evitar a aglomeração, aqueles que optaram por participar das coletas agendaram dia e horário. Ressaltando que durante o procedimento todos os envolvidos usaram máscara e luvas, e a todo momento foi incentivado o uso do álcool em gel.

Os dados foram coletados manualmente e transcritos utilizando a ferramenta do Microsoft Excel® for Windows®10 e posteriormente foram transferidos para o programa Statistical Package for the Social Sciences - IBM SPSS®, versão 16.0. onde foram tratados inicialmente para análise de homogeneidade através do teste de Shapiro-Wilk onde foi detectada a normalidade dos dados e assim optando-se pelo teste de correlação de Pearson. Na sequência foram analisados através da estatística descritiva com as medidas de tendência central (média, mínimo, máximo e desvio padrão) e frequência (percentual).

Este estudo tem o parecer favorável do Comitê de Ética em Pesquisa com Seres Humanos da Universidade da Região de Joinville/SC - UNIVILLE, sob o número 4.731.301.

III. Resultados

A amostra deste estudo foi composta por 69 acadêmicos, com 65,21% do gênero feminino e 34,79% do gênero masculino. Conforme a Tabela 1 é possível observar os valores de média e desvio padrão da idade, estatura, massa corporal e IMC dos acadêmicos de medicina.

<table>
<thead>
<tr>
<th>Variável</th>
<th>X</th>
<th>SD</th>
<th>Min.</th>
<th>Máx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idade (anos)</td>
<td>20,77</td>
<td>3,35</td>
<td>17</td>
<td>37</td>
</tr>
<tr>
<td>Estatura (m)</td>
<td>1,69</td>
<td>0,10</td>
<td>1,50</td>
<td>1,90</td>
</tr>
<tr>
<td>Peso (kg)</td>
<td>63,70</td>
<td>12,37</td>
<td>45,00</td>
<td>97,20</td>
</tr>
<tr>
<td>IMC (kg/m²)</td>
<td>22,27</td>
<td>2,78</td>
<td>18,17</td>
<td>29,27</td>
</tr>
</tbody>
</table>

X: média, SD: desvio padrão, Min.: mínimo, Máx.: máximo.

A Tabela 2 refere-se ao questionário de PEVI, apresentado os componentes, as respostas (número absoluto, porcentagem e moda).
De acordo com os dados expostos na Tabela 2, é possível analisar que o componente da apenas a atividade física está com as características negativas, onde a “moda” revela score baixo para essa prática. Os demais componentes estão com score alto.

A Figura 1 está relacionada à coleta do somatotipo. Através do somatograma é possível visualizar uma distribuição dos acadêmicos avaliados.

**Figura 1:** Somatograma da amostra.

Os valores apresentaram que 34,78% são “endo-ectomórfico”, 14,49% “endomorfismo balanceado” e “endo-mesomórfico”, 10,14% “endo-ectomórfico”, 14,49% “endomorfismo balanceado” e “endo-mesomórfico”, 8,70% “endomorfismo balanceado”.
Prof. Dr. Eduardo Ferreira Fialho

PERFIL ANTROPOMÉTRICO E ESTILO DE VIDA DOS ACADÊMICOS DE MEDICINA

ectomorfo”, 7,25% “meso-endomorfo” e entre outras combinações que, para esse estudo, não se prevalecem. Assim, revela-se que os acadêmicos de medicina estão, predominantemente, concentrados fisicamente em Endomorfo.

Foi analisado, através da estatística descritiva, os dados ao %G dos acadêmicos de medicina, separado por gênero, encontrando a média (desvio) geral em 21,55 (5,99), o gênero masculino em 17,97 (5,47) e feminino em 23,47 (5,39) Assim, observamos que a média do %G dos homens e das mulheres estão “Acima de Média”.

No Quadro 3, é possível verificar os resultados obtidos (número absoluto e porcentagem) em relação a classificação do %G dos gêneros.

Quadro 3: Classificação do percentual de gordura dos gêneros.

<table>
<thead>
<tr>
<th>Classificação</th>
<th>Homens (n/%)</th>
<th>Mulheres (n/%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muito Baixa</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>Abaixo da Média</td>
<td>6 (25%)</td>
<td>18 (40%)</td>
</tr>
<tr>
<td>Média</td>
<td>0%</td>
<td>3 (7,00%)</td>
</tr>
<tr>
<td>Acima da Média</td>
<td>17 (71%)</td>
<td>22 (49%)</td>
</tr>
<tr>
<td>Muito Alto</td>
<td>1 (4%)</td>
<td>2 (4%)</td>
</tr>
</tbody>
</table>

De acordo com os resultados expostos no Quadro 3, é possível observar que os homens e as mulheres se encontram “Acima da Média”. Embora as demais classificações não obtenham prevalência, é possível notar, seguidamente, que 40% das mulheres se encontram “Abaixo da Média”.

Estatisticamente, foi encontrada uma correlação moderada (0,52) no gênero masculino, bem como foi encontrado uma correlação forte (0,71) no gênero feminino, entre %G associado com a IMC (p<0,05).

IV. Discussão

Este estudo teve como finalidade analisar o perfil antropométrico e estilo de vida dos acadêmicos de medicina, por virtude de que esses estudantes acabam passando por extensas demandas que podem prejudicar a vida futuramente.

Observando o resultado do IMC, de início, os acadêmicos se classificaram como “peso normal”. Corroborando com os estudos de Souza et al. (2017) e Rodrigues et al. (2018), onde a média foi de 23,9 kg/m² e 22,86 kg/m², respectivamente, sendo considerada, pela Organização Mundial da Saúde, como peso ideal, bem como no estudo de Jesus et al. (2021), que analisaram 264 acadêmicos de medicina com média de 22,55 kg/m². Em contrapartida, o estudo de Cafure et al. (2018), mostra que os acadêmicos de medicina obtiveram uma prevalência para “Sobrepeso”, assim como o estudo de Volpe et al. (2019), constituída de 109 alunos, onde o gênero masculino apresentou média de IMC correspondendo ao “Sobrepeso”.

Contudo, é importante salientar que a literatura deixa claro que o IMC é um cálculo internacionalmente generalista, uma vez que cada corpo se desenvolve de maneiras diferentes (DIAS et al., 2020). Apesar de ser amplamente utilizado, o IMC é frequentemente criticado por sua capacidade limitada de distinguir entre massa gorda e massa livre de gordura (CHEN et al., 2019).

Nesse sentido, o IMC contrapõe com o %G, uma vez que a média dos homens é de 17,97 e o das mulheres é de 23,47, estando estando classificados “Acima da Média”. À vista disso, podemos perceber que os acadêmicos estão com a saúde em risco. Estatisticamente, foi encontrada uma correlação moderada no gênero masculino e uma correlação forte no gênero feminino, entre %G associado com a IMC (p<0,05). Podemos deduzir que embora o IMC tenha gerado uma normalidade para essa classificação, ainda se torna universalmente ampla, e por isso sucedeu uma correlação com o %G que revela o valor, notadamente, da gordura dos participantes.

O estudo de Cafure et al. (2018) confirma que os acadêmicos de medicina, participantes da pesquisa, obtiveram uma prevalência para sobrepeeso. Validando com estudo de Casado et al. (2021) que conclui que os estudantes da área da saúde possuem excesso de tecido adiposo (82,7%), de acordo com os parâmetros adotados.

Ao analisar os dados do somatotipo e comparar com o %G, podemos entender, através da literatura científica, que o indivíduo considerado Endomorfo, apresenta características como o arredondamento das curvas corporais, onde o relevo muscular é pouco notado, grande volume abdominal, pescoço curto e ombros quadrados (KRZYKAŁA et al., 2020; CAMPA et al., 2020). Tendo os acadêmicos do presente estudo com risco de sobrepeeso ou obesidade.

Casado et al. (2021) salienta que os acadêmicos da área da saúde, cuidarão da população, por isso, além de compreender sobre as principais prevenções, é preciso também cuidar da própria saúde (CASADO et al., 2021).

Ao investigar os resultados do presente estudo, podemos ver que o perfil dos acadêmicos contam com...
indicadores positivos. Bührer et al. (2019), em seu estudo, expõe que 43,6% dos acadêmicos estão classificados no nível “bom”, concluindo que os mesmos necessitam ser orientados a adotar um estilo de vida mais saudável, que se concilie com as atividades acadêmicas. De acordo com as características do estilo de vida geral, no estudo de Jesus et al. (2021) foi constatado que os componentes nutrição e atividade física detêm associações e características negativas, porém, foi detectada uma classificação positiva para o componente de comportamento preventivo, relacionamento social e controle de estresse.

De forma mais detalhada, no componente “Comportamento Preventivo”, os acadêmicos participantes da presente escolheram indicadores positivos. De acordo com a literatura, podemos ver que no estudo de Bührer et al. (2019) 68% dos estudantes relataram que não fumam e 81% ingerem bebida alcoólica moderadamente. Contudo, outros estudos relatam controvérsias, identificando e concluindo que o consumo de álcool e tabaco aumentou de forma significativa durante o curso de Medicina (GOMES et al., 2019). Reforçando com estudo de Pinheiro et al. (2017), que entrevistou 1.035 estudantes de medicina, onde a amostra relata que logo após entrar na faculdade o consumo aumentou, principalmente entre aqueles que relataram ter fumado alguma vez na vida.

O “Relacionamento Social” encontra-se escorregão alto, onde os acadêmicos do presente estudo gostam sempre de conviver em grupo, assim como andam satisfeitos com seus relacionamentos. Na pesquisa de Aquino, Cardoso e Pinho (2019) foi composta por uma amostra de 121 acadêmicos. Os resultados apontam que os estudantes de medicina evitam o relacionamento (70,2%). Contudo, no estudo de Vizzotto, Jesus e Martins (2017) foi avaliado o estilo de vida dos acadêmicos, e participaram 238 jovens de duas universidades. Revelou-se que as mulheres têm mais afinidade no componente relacionamento. Assim, interpreta-se que o diálogo no cotidiano deve fazer parte da construção do relacionamento social de seres humanos, entendendo que a convivência entre as pessoas é fundamental para não ocorrer conflitos (MENEZES et al., 2017).


Com relação ao “Controle de Estresse” é possível notar que esse componente é considerado impactante em diversas dimensões do estilo de vida de um acadêmico de medicina (RIBEIRO, RAIESKI; MACHADO, 2019). No estudo de Lima et al. (2019) foi identificado o nível de estresse dos acadêmicos do curso de medicina. Obteve uma amostra de 35 alunos do sexto período do curso de medicina. Os resultados mostram que os hábitos de saúde, reações ao estresse e satisfações com a vida atual estão numa escala de “preocupante” (51%, 57% e 60%, respectivamente). Assim, o estudo ressalta que o nível de estresse foi muito significativo.

Por fim, no componente de “Atividade Física”, duas das questões se classificaram como indicadores negativos. Corroborando com estudo de Mendes, Correia e Kock (2020), onde esses analisaram um total de 402 acadêmicos do curso de medicina, sendo 62% do sexo feminino. Os resultados revelam que o nível de atividade física foi de 41,0%, mostrando que os acadêmicos estão na faixa de baixo nível. Em contrapartida, no estudo de Vaz et al. (2020) participaram 116 estudantes de medicina, com média de idade (anos) 24,3, sendo 37 homens e 79 mulheres. A prática de atividade física se classifica como “frequentemente” (n=51).

Além disso, é importante salientar que a atividade física é um dos mecanismos também estudado pelos pesquisadores, como uma ferramenta benéfica para diversos tratamentos para saúde geral (MENDES, CORREIA; KOCK, 2020), sendo essa prática fundamental para encontrar o %G ideal, contribuindo não só para o físico, mas para o aspecto mental e social (BULL et al., 2020).

A limitação do estudo é vista através do baixo número amostral e a falta da coleta sociodemográfica, dado esse que poderia contribuir para análise das variáveis já postas. Assim, os resultados desta pesquisa retratam apenas a referida amostra.

V. Conclusão

De acordo com as evidências encontradas, é possível constatar que embora os resultados apresentem a maioria dos componentes com indicadores positivo, o %G dos acadêmicos de medicina estão “Acima da Média” e o componente da “Atividade Física” se classifica com um indicador negativo, gerando riscos à saúde e influenciado o estilo de vida. Nesse sentido, conclui-se que é de fundamental importância os acadêmicos buscarem estratégias para um estilo de vida benéfico e acompanharem os resultados antropométricos, para não prejudicar a saúde, assim como o tempo no campus.
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Global Journals is in partnership with various universities, laboratories, and other institutions worldwide in the research domain. Authors are requested to disclose their source of funding during every stage of their research, such as making analysis, performing laboratory operations, computing data, and using institutional resources, from writing an article to its submission. This will also help authors to get reimbursements by requesting an open access publication letter from Global Journals and submitting to the respective funding source.

Preparing your Manuscript

Authors can submit papers and articles in an acceptable file format: MS Word (doc, docx), LaTeX (.tex, .zip or .rar including all of your files), Adobe PDF (.pdf), rich text format (.rtf), simple text document (.txt), Open Document Text (.odt), and Apple Pages (.pages). Our professional layout editors will format the entire paper according to our official guidelines. This is one of the highlights of publishing with Global Journals—authors should not be concerned about the formatting of their paper. Global Journals accepts articles and manuscripts in every major language, be it Spanish, Chinese, Japanese, Portuguese, Russian, French, German, Dutch, Italian, Greek, or any other national language, but the title, subtitle, and abstract should be in English. This will facilitate indexing and the pre-peer review process.

The following is the official style and template developed for publication of a research paper. Authors are not required to follow this style during the submission of the paper. It is just for reference purposes.

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Manuscript Style Instruction (Optional)

- Microsoft Word Document Setting Instructions.
- Font type of all text should be Swis721 Lt BT.
- Page size: 8.27” x 11”, left margin: 0.65, right margin: 0.65, bottom margin: 0.75.
- Paper title should be in one column of font size 24.
- Author name in font size of 11 in one column.
- Abstract: font size 9 with the word “Abstract” in bold italics.
- Main text: font size 10 with two justified columns.
- Two columns with equal column width of 3.38 and spacing of 0.2.
- First character must be three lines drop-capped.
- The paragraph before spacing of 1 pt and after of 0 pt.
- Line spacing of 1 pt.
- Large images must be in one column.
- The names of first main headings (Heading 1) must be in Roman font, capital letters, and font size of 10.
- The names of second main headings (Heading 2) must not include numbers and must be in italics with a font size of 10.

Structure and Format of Manuscript

The recommended size of an original research paper is under 15,000 words and review papers under 7,000 words. Research articles should be less than 10,000 words. Research papers are usually longer than review papers. Review papers are reports of significant research (typically less than 7,000 words, including tables, figures, and references)

A research paper must include:

a) A title which should be relevant to the theme of the paper.
b) A summary, known as an abstract (less than 150 words), containing the major results and conclusions.
c) Up to 10 keywords that precisely identify the paper’s subject, purpose, and focus.
d) An introduction, giving fundamental background objectives.
e) Resources and techniques with sufficient complete experimental details (wherever possible by reference) to permit repetition, sources of information must be given, and numerical methods must be specified by reference.
f) Results which should be presented concisely by well-designed tables and figures.
g) Suitable statistical data should also be given.
h) All data must have been gathered with attention to numerical detail in the planning stage.

Design has been recognized to be essential to experiments for a considerable time, and the editor has decided that any paper that appears not to have adequate numerical treatments of the data will be returned unreferred.

i) Discussion should cover implications and consequences and not just recapitulate the results; conclusions should also be summarized.
j) There should be brief acknowledgments.
k) There ought to be references in the conventional format. Global Journals recommends APA format.

Authors should carefully consider the preparation of papers to ensure that they communicate effectively. Papers are much more likely to be accepted if they are carefully designed and laid out, contain few or no errors, are summarizing, and follow instructions. They will also be published with much fewer delays than those that require much technical and editorial correction.

The Editorial Board reserves the right to make literary corrections and suggestions to improve brevity.
It is necessary that authors take care in submitting a manuscript that is written in simple language and adheres to published guidelines.

All manuscripts submitted to Global Journals should include:

**Title**

The title page must carry an informative title that reflects the content, a running title (less than 45 characters together with spaces), names of the authors and co-authors, and the place(s) where the work was carried out.

**Author details**

The full postal address of any related author(s) must be specified.

**Abstract**

The abstract is the foundation of the research paper. It should be clear and concise and must contain the objective of the paper and inferences drawn. It is advised to not include big mathematical equations or complicated jargon.

Many researchers searching for information online will use search engines such as Google, Yahoo or others. By optimizing your paper for search engines, you will amplify the chance of someone finding it. In turn, this will make it more likely to be viewed and cited in further works. Global Journals has compiled these guidelines to facilitate you to maximize the web-friendliness of the most public part of your paper.

**Keywords**

A major lynchpin of research work for the writing of research papers is the keyword search, which one will employ to find both library and internet resources. Up to eleven keywords or very brief phrases have to be given to help data retrieval, mining, and indexing.

One must be persistent and creative in using keywords. An effective keyword search requires a strategy: planning of a list of possible keywords and phrases to try.

Choice of the main keywords is the first tool of writing a research paper. Research paper writing is an art. Keyword search should be as strategic as possible.

One should start brainstorming lists of potential keywords before even beginning searching. Think about the most important concepts related to research work. Ask, “What words would a source have to include to be truly valuable in a research paper?” Then consider synonyms for the important words.

It may take the discovery of only one important paper to steer in the right keyword direction because, in most databases, the keywords under which a research paper is abstracted are listed with the paper.

**Numerical Methods**

Numerical methods used should be transparent and, where appropriate, supported by references.

**Abbreviations**

Authors must list all the abbreviations used in the paper at the end of the paper or in a separate table before using them.

**Formulas and equations**

Authors are advised to submit any mathematical equation using either MathJax, KaTeX, or LaTeX, or in a very high-quality image.

**Tables, Figures, and Figure Legends**

Tables: Tables should be cautiously designed, uncrowned, and include only essential data. Each must have an Arabic number, e.g., Table 4, a self-explanatory caption, and be on a separate sheet. Authors must submit tables in an editable format and not as images. References to these tables (if any) must be mentioned accurately.
Figures

Figures are supposed to be submitted as separate files. Always include a citation in the text for each figure using Arabic numbers, e.g., Fig. 4. Artwork must be submitted online in vector electronic form or by emailing it.

Preparation of Electronic Figures for Publication

Although low-quality images are sufficient for review purposes, print publication requires high-quality images to prevent the final product being blurred or fuzzy. Submit (possibly by e-mail) EPS (line art) or TIFF (halftone/photographs) files only. MS PowerPoint and Word Graphics are unsuitable for printed pictures. Avoid using pixel-oriented software. Scans (TIFF only) should have a resolution of at least 350 dpi (halftone) or 700 to 1100 dpi (line drawings). Please give the data for figures in black and white or submit a Color Work Agreement form. EPS files must be saved with fonts embedded (and with a TIFF preview, if possible).

For scanned images, the scanning resolution at final image size ought to be as follows to ensure good reproduction: line art: >650 dpi; halftones (including gel photographs): >350 dpi; figures containing both halftone and line images: >650 dpi.

Color charges: Authors are advised to pay the full cost for the reproduction of their color artwork. Hence, please note that if there is color artwork in your manuscript when it is accepted for publication, we would require you to complete and return a Color Work Agreement form before your paper can be published. Also, you can email your editor to remove the color fee after acceptance of the paper.

Tips for writing a good quality Medical Research Paper

1. Choosing the topic: In most cases, the topic is selected by the interests of the author, but it can also be suggested by the guides. You can have several topics, and then judge which you are most comfortable with. This may be done by asking several questions of yourself, like "Will I be able to carry out a search in this area? Will I find all necessary resources to accomplish the search? Will I be able to find all information in this field area?" If the answer to this type of question is "yes," then you ought to choose that topic. In most cases, you may have to conduct surveys and visit several places. Also, you might have to do a lot of work to find all the rises and falls of the various data on that subject. Sometimes, detailed information plays a vital role, instead of short information. Evaluators are human: The first thing to remember is that evaluators are also human beings. They are not only meant for rejecting a paper. They are here to evaluate your paper. So present your best aspect.

2. Think like evaluators: If you are in confusion or getting demotivated because your paper may not be accepted by the evaluators, then think, and try to evaluate your paper like an evaluator. Try to understand what an evaluator wants in your research paper, and you will automatically have your answer. Make blueprints of paper: The outline is the plan or framework that will help you to arrange your thoughts. It will make your paper logical. But remember that all points of your outline must be related to the topic you have chosen.

3. Ask your guides: If you are having any difficulty with your research, then do not hesitate to share your difficulty with your guide (if you have one). They will surely help you out and resolve your doubts. If you can't clarify what exactly you require for your work, then ask your supervisor to help you with an alternative. He or she might also provide you with a list of essential readings.

4. Use of computer is recommended: As you are doing research in the field of medical research then this point is quite obvious. Use right software: Always use good quality software packages. If you are not capable of judging good software, then you can lose the quality of your paper unknowingly. There are various programs available to help you which you can get through the internet.

5. Use the internet for help: An excellent start for your paper is using Google. It is a wondrous search engine, where you can have your doubts resolved. You may also read some answers for the frequent question of how to write your research paper or find a model research paper. You can download books from the internet. If you have all the required books, place importance on reading, selecting, and analyzing the specified information. Then sketch out your research paper. Use big pictures: You may use encyclopedias like Wikipedia to get pictures with the best resolution. At Global Journals, you should strictly follow here.
6. **Bookmarks are useful**: When you read any book or magazine, you generally use bookmarks, right? It is a good habit which helps to not lose your continuity. You should always use bookmarks while searching on the internet also, which will make your search easier.

7. **Revise what you wrote**: When you write anything, always read it, summarize it, and then finalize it.

8. **Make every effort**: Make every effort to mention what you are going to write in your paper. That means always have a good start. Try to mention everything in the introduction—what is the need for a particular research paper. Polish your work with good writing skills and always give an evaluator what he wants. Make backups: When you are going to do any important thing like making a research paper, you should always have backup copies of it either on your computer or on paper. This protects you from losing any portion of your important data.

9. **Produce good diagrams of your own**: Always try to include good charts or diagrams in your paper to improve quality. Using several unnecessary diagrams will degrade the quality of your paper by creating a hodgepodge. So always try to include diagrams which were made by you to improve the readability of your paper. Use of direct quotes: When you do research relevant to literature, history, or current affairs, then use of quotes becomes essential, but if the study is relevant to science, use of quotes is not preferable.

10. **Use proper verb tense**: Use proper verb tenses in your paper. Use past tense to present those events that have happened. Use present tense to indicate events that are going on. Use future tense to indicate events that will happen in the future. Use of wrong tenses will confuse the evaluator. Avoid sentences that are incomplete.

11. **Pick a good study spot**: Always try to pick a spot for your research which is quiet. Not every spot is good for studying.

12. **Know what you know**: Always try to know what you know by making objectives, otherwise you will be confused and unable to achieve your target.

13. **Use good grammar**: Always use good grammar and words that will have a positive impact on the evaluator; use of good vocabulary does not mean using tough words which the evaluator has to find in a dictionary. Do not fragment sentences. Eliminate one-word sentences. Do not ever use a big word when a smaller one would suffice. Verbs have to be in agreement with their subjects. In a research paper, do not start sentences with conjunctions or finish them with prepositions. When writing formally, it is advisable to never split an infinitive because someone will (wrongly) complain. Avoid clichés like a disease. Always shun irritating alliteration. Use language which is simple and straightforward. Put together a neat summary.

14. **Arrangement of information**: Each section of the main body should start with an opening sentence, and there should be a changeover at the end of the section. Give only valid and powerful arguments for your topic. You may also maintain your arguments with records.

15. **Never start at the last minute**: Always allow enough time for research work. Leaving everything to the last minute will degrade your paper and spoil your work.

16. **Multitasking in research is not good**: Doing several things at the same time is a bad habit in the case of research activity. Research is an area where everything has a particular time slot. Divide your research work into parts, and do a particular part in a particular time slot.

17. **Never copy others’ work**: Never copy others' work and give it your name because if the evaluator has seen it anywhere, you will be in trouble. Take proper rest and food: No matter how many hours you spend on your research activity, if you are not taking care of your health, then all your efforts will have been in vain. For quality research, take proper rest and food.

18. **Go to seminars**: Attend seminars if the topic is relevant to your research area. Utilize all your resources.

19. **Refresh your mind after intervals**: Try to give your mind a rest by listening to soft music or sleeping in intervals. This will also improve your memory. Acquire colleagues: Always try to acquire colleagues. No matter how sharp you are, if you acquire colleagues, they can give you ideas which will be helpful to your research.
20. **Think technically:** Always think technically. If anything happens, search for its reasons, benefits, and demerits. Think and then print: When you go to print your paper, check that tables are not split, headings are not detached from their descriptions, and page sequence is maintained.

21. **Adding unnecessary information:** Do not add unnecessary information like "I have used MS Excel to draw graphs." Irrelevant and inappropriate material is superfluous. Foreign terminology and phrases are not apropos. One should never take a broad view. Analogy is like feathers on a snake. Use words properly, regardless of how others use them. Remove quotations. Puns are for kids, not grunt readers. Never oversimplify: When adding material to your research paper, never go for oversimplification; this will definitely irritate the evaluator. Be specific. Never use rhythmic redundancies. Contractions shouldn't be used in a research paper. Comparisons are as terrible as clichés. Give up ampersands, abbreviations, and so on. Remove commas that are not necessary. Parenthetical words should be between brackets or commas. Understatement is always the best way to put forward earth-shaking thoughts. Give a detailed literary review.

22. **Report concluded results:** Use concluded results. From raw data, filter the results, and then conclude your studies based on measurements and observations taken. An appropriate number of decimal places should be used. Parenthetical remarks are prohibited here. Proofread carefully at the final stage. At the end, give an outline to your arguments. Spot perspectives of further study of the subject. Justify your conclusion at the bottom sufficiently, which will probably include examples.

23. **Upon conclusion:** Once you have concluded your research, the next most important step is to present your findings. Presentation is extremely important as it is the definite medium though which your research is going to be in print for the rest of the crowd. Care should be taken to categorize your thoughts well and present them in a logical and neat manner. A good quality research paper format is essential because it serves to highlight your research paper and bring to light all necessary aspects of your research.

**Informal Guidelines of Research Paper Writing**

**Key points to remember:**
- Submit all work in its final form.
- Write your paper in the form which is presented in the guidelines using the template.
- Please note the criteria peer reviewers will use for grading the final paper.

**Final points:**

One purpose of organizing a research paper is to let people interpret your efforts selectively. The journal requires the following sections, submitted in the order listed, with each section starting on a new page:

*The introduction:* This will be compiled from reference matter and reflect the design processes or outline of basis that directed you to make a study. As you carry out the process of study, the method and process section will be constructed like that. The results segment will show related statistics in nearly sequential order and direct reviewers to similar intellectual paths throughout the data that you gathered to carry out your study.

*The discussion section:*

This will provide understanding of the data and projections as to the implications of the results. The use of good quality references throughout the paper will give the effort trustworthiness by representing an alertness to prior workings.

Writing a research paper is not an easy job, no matter how trouble-free the actual research or concept. Practice, excellent preparation, and controlled record-keeping are the only means to make straightforward progression.

*General style:*

Specific editorial column necessities for compliance of a manuscript will always take over from directions in these general guidelines.

*To make a paper clear:* Adhere to recommended page limits.
Mistakes to avoid:

- Insertion of a title at the foot of a page with subsequent text on the next page.
- Separating a table, chart, or figure—confine each to a single page.
- Submitting a manuscript with pages out of sequence.
- In every section of your document, use standard writing style, including articles ("a" and "the").
- Keep paying attention to the topic of the paper.
- Use paragraphs to split each significant point (excluding the abstract).
- Align the primary line of each section.
- Present your points in sound order.
- Use present tense to report well-accepted matters.
- Use past tense to describe specific results.
- Do not use familiar wording; don't address the reviewer directly. Don't use slang or superlatives.
- Avoid use of extra pictures—include only those figures essential to presenting results.

Title page:

Choose a revealing title. It should be short and include the name(s) and address(es) of all authors. It should not have acronyms or abbreviations or exceed two printed lines.

Abstract: This summary should be two hundred words or less. It should clearly and briefly explain the key findings reported in the manuscript and must have precise statistics. It should not have acronyms or abbreviations. It should be logical in itself. Do not cite references at this point.

An abstract is a brief, distinct paragraph summary of finished work or work in development. In a minute or less, a reviewer can be taught the foundation behind the study, common approaches to the problem, relevant results, and significant conclusions or new questions.

Write your summary when your paper is completed because how can you write the summary of anything which is not yet written? Wealth of terminology is very essential in abstract. Use comprehensive sentences, and do not sacrifice readability for brevity; you can maintain it succinctly by phrasing sentences so that they provide more than a lone rationale. The author can at this moment go straight to shortening the outcome. Sum up the study with the subsequent elements in any summary. Try to limit the initial two items to no more than one line each.

Reason for writing the article—theory, overall issue, purpose.

- Fundamental goal.
- To-the-point depiction of the research.
- Consequences, including definite statistics—if the consequences are quantitative in nature, account for this; results of any numerical analysis should be reported. Significant conclusions or questions that emerge from the research.

Approach:

- Single section and succinct.
- An outline of the job done is always written in past tense.
- Concentrate on shortening results—limit background information to a verdict or two.
- Exact spelling, clarity of sentences and phrases, and appropriate reporting of quantities (proper units, important statistics) are just as significant in an abstract as they are anywhere else.

Introduction:

The introduction should "introduce" the manuscript. The reviewer should be presented with sufficient background information to be capable of comprehending and calculating the purpose of your study without having to refer to other works. The basis for the study should be offered. Give the most important references, but avoid making a comprehensive appraisal of the topic. Describe the problem visibly. If the problem is not acknowledged in a logical, reasonable way, the reviewer will give no attention to your results. Speak in common terms about techniques used to explain the problem, if needed, but do not present any particulars about the protocols here.
The following approach can create a valuable beginning:

- Explain the value (significance) of the study.
- Defend the model—why did you employ this particular system or method? What is its compensation? Remark upon its appropriateness from an abstract point of view as well as pointing out sensible reasons for using it.
- Present a justification. State your particular theory(-ies) or aim(s), and describe the logic that led you to choose them.
- Briefly explain the study's tentative purpose and how it meets the declared objectives.

Approach:

Use past tense except for when referring to recognized facts. After all, the manuscript will be submitted after the entire job is done. Sort out your thoughts; manufacture one key point for every section. If you make the four points listed above, you will need at least four paragraphs. Present surrounding information only when it is necessary to support a situation. The reviewer does not desire to read everything you know about a topic. Shape the theory specifically—do not take a broad view.

As always, give awareness to spelling, simplicity, and correctness of sentences and phrases.

Procedures (methods and materials):

This part is supposed to be the easiest to carve if you have good skills. A soundly written procedures segment allows a capable scientist to replicate your results. Present precise information about your supplies. The suppliers and clarity of reagents can be helpful bits of information. Present methods in sequential order, but linked methodologies can be grouped as a segment. Be concise when relating the protocols. Attempt to give the least amount of information that would permit another capable scientist to replicate your outcome, but be cautious that vital information is integrated. The use of subheadings is suggested and ought to be synchronized with the results section.

When a technique is used that has been well-described in another section, mention the specific item describing the way, but draw the basic principle while stating the situation. The purpose is to show all particular resources and broad procedures so that another person may use some or all of the methods in one more study or referee the scientific value of your work. It is not to be a step-by-step report of the whole thing you did, nor is a methods section a set of orders.

Materials:

*Materials may be reported in part of a section or else they may be recognized along with your measures.*

Methods:

- Report the method and not the particulars of each process that engaged the same methodology.
- Describe the method entirely.
- To be succinct, present methods under headings dedicated to specific dealings or groups of measures.
- Simplify—detail how procedures were completed, not how they were performed on a particular day.
- If well-known procedures were used, account for the procedure by name, possibly with a reference, and that's all.

Approach:

It is embarrassing to use vigorous voice when documenting methods without using first person, which would focus the reviewer’s interest on the researcher rather than the job. As a result, when writing up the methods, most authors use third person passive voice.

Use standard style in this and every other part of the paper—avoid familiar lists, and use full sentences.

What to keep away from:

- Resources and methods are not a set of information.
- Skip all descriptive information and surroundings—save it for the argument.
- Leave out information that is immaterial to a third party.
Results:
The principle of a results segment is to present and demonstrate your conclusion. Create this part as entirely objective
details of the outcome, and save all understanding for the discussion.

The page length of this segment is set by the sum and types of data to be reported. Use statistics and tables, if suitable, to
present consequences most efficiently.

You must clearly differentiate material which would usually be incorporated in a study editorial from any unprocessed data
or additional appendix matter that would not be available. In fact, such matters should not be submitted at all except if
requested by the instructor.

Content:
- Sum up your conclusions in text and demonstrate them, if suitable, with figures and tables.
- In the manuscript, explain each of your consequences, and point the reader to remarks that are most appropriate.
- Present a background, such as by describing the question that was addressed by creation of an exacting study.
- Explain results of control experiments and give remarks that are not accessible in a prescribed figure or table, if
  appropriate.
- Examine your data, then prepare the analyzed (transformed) data in the form of a figure (graph), table, or
  manuscript.

What to stay away from:
- Do not discuss or infer your outcome, report surrounding information, or try to explain anything.
- Do not include raw data or intermediate calculations in a research manuscript.
- Do not present similar data more than once.
- A manuscript should complement any figures or tables, not duplicate information.
- Never confuse figures with tables—there is a difference.

Approach:
As always, use past tense when you submit your results, and put the whole thing in a reasonable order.

Put figures and tables, appropriately numbered, in order at the end of the report.

If you desire, you may place your figures and tables properly within the text of your results section.

Figures and tables:
If you put figures and tables at the end of some details, make certain that they are visibly distinguished from any attached
appendix materials, such as raw facts. Whatever the position, each table must be titled, numbered one after the other, and
include a heading. All figures and tables must be divided from the text.

Discussion:
The discussion is expected to be the trickiest segment to write. A lot of papers submitted to the journal are discarded
based on problems with the discussion. There is no rule for how long an argument should be.

Position your understanding of the outcome visibly to lead the reviewer through your conclusions, and then finish the
paper with a summing up of the implications of the study. The purpose here is to offer an understanding of your results
and support all of your conclusions, using facts from your research and generally accepted information, if suitable. The
implication of results should be fully described.

Infer your data in the conversation in suitable depth. This means that when you clarify an observable fact, you must explain
mechanisms that may account for the observation. If your results vary from your prospect, make clear why that may have
happened. If your results agree, then explain the theory that the proof supported. It is never suitable to just state that the
data approved the prospect, and let it drop at that. Make a decision as to whether each premise is supported or discarded
or if you cannot make a conclusion with assurance. Do not just dismiss a study or part of a study as "uncertain."
Research papers are not acknowledged if the work is imperfect. Draw what conclusions you can based upon the results that you have, and take care of the study as a finished work.

- You may propose future guidelines, such as how an experiment might be personalized to accomplish a new idea.
- Give details of all of your remarks as much as possible, focusing on mechanisms.
- Make a decision as to whether the tentative design sufficiently addressed the theory and whether or not it was correctly restricted. Try to present substitute explanations if they are sensible alternatives.
- One piece of research will not counter an overall question, so maintain the large picture in mind. Where do you go next? The best studies unlock new avenues of study. What questions remain?
- Recommendations for detailed papers will offer supplementary suggestions.

**Approach:**

When you refer to information, differentiate data generated by your own studies from other available information. Present work done by specific persons (including you) in past tense.

Describe generally acknowledged facts and main beliefs in present tense.

**THE ADMINISTRATION RULES**

Administer Rules to Be Strictly Followed before Submitting Your Research Paper to Global Journals Inc.

*Please read the following rules and regulations carefully before submitting your research paper to Global Journals Inc. to avoid rejection.*

**Segment draft and final research paper:** You have to strictly follow the template of a research paper, failing which your paper may get rejected. You are expected to write each part of the paper wholly on your own. The peer reviewers need to identify your own perspective of the concepts in your own terms. Please do not extract straight from any other source, and do not rephrase someone else's analysis. Do not allow anyone else to proofread your manuscript.

**Written material:** You may discuss this with your guides and key sources. Do not copy anyone else's paper, even if this is only imitation, otherwise it will be rejected on the grounds of plagiarism, which is illegal. Various methods to avoid plagiarism are strictly applied by us to every paper, and, if found guilty, you may be blacklisted, which could affect your career adversely. To guard yourself and others from possible illegal use, please do not permit anyone to use or even read your paper and file.
# Criterion for Grading a Research Paper (Compilation)
## By Global Journals

Please note that following table is only a Grading of "Paper Compilation" and not on "Performed/Stated Research" whose grading solely depends on Individual Assigned Peer Reviewer and Editorial Board Member. These can be available only on request and after decision of Paper. This report will be the property of Global Journals.

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