

1 Street Trading Activities and Maternal Health in Urban Areas of 2 Nigeria

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6

7 **Abstract**

8 The study assessed the health risks associated with street trading activities among selected
9 mothers in urban centers of Nigeria. The data used was extracted from national survey data
10 among 3,873 street traders selected in various Central Business Districts (CBDs) across three
11 major cities of Nigeria, namely, Lagos, Kano and Port Harcourt. The study showed that street
12 trading has provided job opportunities for mothers but the impact of the business on their
13 welfare is not visible considering their weekly income that is far below their weekly
14 expenditure. Respondents with primary, secondary and tertiary education are 0.879, 0.553
15 and 0.818 less likely to be injured while trading on the street compared to individuals who
16 have no formal education. The authors suggest due recognition to be given to the activity and
17 that street traders-government partnership be established in order to safeguard the health of
18 the operators.

19

20 **Index terms**— street trading, women health, morbidity, workplace hazards, traffic.

21 **1 I. Introduction**

22 Generally, both women and men are found concentrated in certain occupation, face similar conditions at work
23 and experience the same workplace hazards. In sub-Saharan Africa region, working women are also traditionally
24 responsible for the household chores. However, both sexes are physically different and women are more sensitive
25 considering their reproductive roles. It is therefore expedient to recognise these differences and examine critically
26 the exposure of women to workplace hazards in order to enhance reduction in maternal mortality and morbidity
27 that are rampant among the developing nations.

28 Deaths, accidents and infections from the workplace have been contributing immensely to the global mortality
29 rate. Annual death toll from unsafe occupation reported for 2006 was 1.1 million people. The recorded cases
30 of fatalities in the workplace that led to complete disability was about 300,000 out of 250 million while over
31 160 million people were victims of work-related diseases ??ILO, 2006; ??HO, 2006; ??LO, 2008; ??HO, 2010).
32 Gender variations are difficult to specify especially for a low-income economy. The global figures for 2008 show
33 that out of 337 million occupational accidents, 358,000 were confirmed as fatal, while deaths from occupational
34 related illnesses were 651,000 (WHO, 2010; ??LO, 2006; ??LO, 2008; Lu, 2011). Observation from these data
35 show that there is a 77 percent increase in death toll from unsafe workplace between ??006 and 2008, 35 percent
36 increase between the same period while the number of fatal accident increased by 19 percent.

37 Women make up 45% of the employed population in the EU (European Agency for Safety and Health at Work,
38 2012), they constitute about 31.2 percent of Nigeria labour force (Eweama, 2009; National Bureau of Statistics
39 (NBS), 2010). Across the Eastern, Middle, Western and Southern Africa regions, about 37, 25, 22 and 2 percents
40 of girls respectively in age between 10 and 14 were economically active in the year 1990 ??ILO, 1990; Bledsoe &
41 Cohen, 1993).

42 The proportion in the next older age (15-19 years) was 62, 39, 45 and 29 percent respectively in the same
43 year ??ILO, 1990; Bledsoe & Cohen, 1993). In Nigeria, the proportion of women in labour force is unfavourably

3 III. LITERATURE REVIEW AND CONCEPTUAL FRAMEWORK

44 compared to the men. A change in this paradigm as currently been driven by gender equality agenda (including
45 equal employment opportunities and support for women enterprises that were enshrined in MDG 3 (UN, 2003;
46 NPC & USAID, 2004; Oyekanmi, 2008; Commission on Legal Empowerment of the Poor, 2008) can only be
47 successfully achieved with the provision of safe working environment for women. The concentration of women in
48 micro-enterprises with diverse methods of operations makes it more important to address the gender dimension
49 in health and safety at workplace. Healthy and safe work environments can enhance, and are synonymous with
50 quality jobs and output (Muir, 1974;Alli, 2001).

51 It is envisaged that quality outputs would impact on women's earnings and might keep them in employment.
52 Thus, attention must be paid to the health and safety of the jobs that women do.

53 However, men and women are not the same neither is their jobs and the working conditions they are exposed
54 to the same. Likewise, the way they are treated in the society also differ. These factors can affect the hazards
55 they face at work and the approach that needs to be taken to assess and control them. Women are always at
56 the receiving end of most social and economic hazards (National Population Commission and USAID, 2004) and
57 street trading is not an exception. While studies have shown some interrelationships between unemployment,
58 earnings and poverty and G economic growth, the impact of work conditions on the most vulnerable gender in
59 terms of their reproductive well-being has not been conspicuous in the literature (Kwankye, Nyarko. & Tago,
60 2007; Beavon, 1990;Callaghan & Venter, 2011;Lantana, 2010 ?? Motala, 2002 ?? NBS, 2011;Walker & Gilbert,
61 2002).

62 In general, women's health is not only in terms of the well-being in female anatomy, it is a constellation of
63 medical situations, their susceptibilities and responses to treatment for sicknesses and diseases ??WHO, 2006). It
64 also includes those bio-demographic problems which they face directly or indirectly in their day-to-day activities
65 (Walker & Gilbert, 2002; ??HO, 2006). While the medical dimension concerns with sensitive areas especially
66 female genitalia, breasts, pregnancy and child birth, the social dimension encompasses physical fitness, mental
67 and social wellbeing ??WHO, 2006). Also, while most medical challenges are addressed in the health centers,
68 the social aspects would require interdisciplinary approaches like epidemiology, biostatistics, environmental and
69 community health, behavioral and occupational health synthesis (Public Health Agency of Canada, 2005). In this
70 context, the social aspects of women are considered as they relate to the health risks inherent in their day-to-day
71 trading activities especially on the street.

72 2 II. Objectives of he Study

73 The thrust of this study is to assess women in street trading business in urban centres of Nigeria and the
74 implications of the job on their health. It is specifically meant to share information on the interrelationships
75 between women's health and associated street trading risks. Also, the study examines the association between
76 the incidence of injury experience by street hawkers, harassment and traders' socio-economic background. It
77 thereafter proffered applicable strategies for formal re-structuring of street trading business in Nigeria.

78 3 III. Literature Review and Conceptual Framework

79 Comprehensive data on occupational hazards and illnesses due to street trading activities are not common
80 especially in developing nations. Available information relates to street trading activities in South Africa,
81 Ghana, Kenya and India (Mitullah, 2004;Lund, 1998;Lund & Skinner, 2003;Ebigbo, 2003; ??irathron, 2006;
82 ??LO, 2006;Kusakabe, 2006;Skinner, 2008;Sylvia, 2010). Studies that dissect gender variations in street hawking
83 activities and their health are not popular in Nigeria.

84 However, with the magnitude of people engaging in the trade, the bad road and unmanageable manner of
85 traffic suggests that such activities cannot be free of hazards. By definition, "work hazard" means the danger
86 or risk encountered in doing or carrying out specific operation in the workplace. A work hazard is a potential
87 damage, harm or an adverse health effect the worker experienced from working or exposure to certain working
88 conditions that include the materials, substance they use, the process and the practice involved in that job (Lu,
89 2005). Lu (2011) observed that occupational hazards and health challenges vary by occupational sector and the
90 specific job of the individual.

91 The nature of street trading in Nigeria is such that can be engaged in by anyone because the job only
92 requires low human and financial capital unlike like other businesses in the informal sector. It is a form of
93 microentrepreneurial business. Besides, in most countries, street hawking forms a crucial part of the logistics
94 structure and in most cases serves as the last channel in the chain of production, distribution and consumption.

95 Specifically, street trading entails displaying wares by the roadside, carrying head pan or raising a sample of
96 wares to the commuters while these vehicles are moving. Thus, the road is being shared between sellers and the
97 motorists. Although, the congestion emanated therein could slow down vehicular speed, the ensuing hustling and
98 bustling in the midst of seemingly uncontrollable 'traffic jam' is likely to be dangerous for women health (Wayne,
99 1997; Lee, 2004; Ekpenyong & Sibiri, 2011). The health hazards involved in running after a moving vehicle in
100 an attempt to sell goods to the buyers is risky in nature taking into consideration that they (the hawkers) have
101 no control over the traffic. Therefore, cconsidering street trading, it is not unlikely that women could suffer from
102 musculoskeletal disorders as a result of the nature of the trade which entails long standing or running on the
103 roads.

104 Lu (2011) categorically indicates that certain hazards can lead to some forms of occupational illnesses, and
105 that in most cases, women are more vulnerable. Their exposure can lead to tiredness, pains, headache, lesser
106 birth weight and risk of spontaneous abortion in the case of pregnant women. These sicknesses cannot by any
107 means exclude other reproductive dysfunctions that are medically associated with stress, high blood pressure and
108 unhealthy job conditions.

109 Vagaries of adverse health effects related to street trading include but not limited to body injuries (accidents),
110 diseases, changes in the way the body functions, growths, effects on a developing fetus (teratogenic and fetotoxic
111 effects), decreases in life span, change in mental condition resulting from stress, traumatic experiences, to mention
112 but few (Lu, 2005; ILO, 2009; Canadian Centre for Occupational Health and Safety, 2009; Agius, 2010). While
113 some of these diseases manifest immediately, others are delayed, and some may not be reversible. Workplace
114 hazard can cause harm or adverse effect to an individual or the organization. Hazard is simply conjectured (in
115 this context) as those working conditions

116 4 Global Journal of Human Social Science

117 Volume XII Issue W XV Version I(D D D D) A 2 48

118 Year t communities they impact. The chance or probability that a worker will be harmed or experienced
119 adverse health effect if exposed to a hazard is regarded as risk. It also necessary to indicate here that the
120 gravity of the adverse health the worker suffers is a function of the duration of the exposure, health status of the
121 person exposed and the severity of such conditions the work exposed to (Agius, 2010). Therefore, considering the
122 seemly 'fragile' health condition of women and the 'modus operandi' of street trading, it is not likely that their
123 feminine nature will be able to cope adequately with trading activities on the highways. Perhaps if they are able,
124 the long-run effects could be dangerous. Where both men and women traders compete for the same customers
125 under the same conditions, it is not unlikely that women will be more exposed to hazards therein.). The
126 theory indicates that stress raises blood pressure, engenders sleep and gastro-intestinal disturbances, cause back
127 pain, tension, headache and palpitation. Adapting this theory, Irniza (2011) confirms that there is a significant
128 correlation between urban traffic policing and respiratory symptoms of asthma, exposure to particulate matter,
129 mental stresses and so on. It is indicated that the prevalence of stress is higher among urban traffic police officers
130 compared to others (Irniza, 2011) and that exposure to air pollution have negative effects on mental health and
131 well-being. Thus, if traffic police are susceptible to the above health challenges, then women that trade in the
132 traffic (street traders) should be more vulnerable taking into consideration that they are already overwhelmed
133 with fear of harassment by government authorities or associations.

134 Besides, these highlighted symptoms and their effects (both in the short and long run) would be inimical to
135 women generally and could be more dangerous to those in child bearing age and the young folks who are the
136 future mothers. In another perspective, work stress has been confirmed capable of influencing coronary heart
137 disease, heighten anxiety, depression and burnout, to mention but few of them (Folkman, et al, 1986; Palmer
138 et al, 2004; ??laug et al, 2007). While this study is not a causality study, the suspicion correlation between
139 health challenges and workplace health hazards in a country with high level of maternal mortality coupled with
140 innumerable number of women in the business, should be worrisome. Street hawking is a b) Research Methods

141 The study assessed women in street trading business in urban centres of Nigeria and the implications of their
142 jobs on their health. It adopted quantitative research and 'non-participatory direct observation approach' in
143 gathering information on the "modus operandi" of street trading activities in Nigeria. The study also dissected
144 the health risks associated with street trading activity and proffer 'auctionable' strategies towards free-health-risk
145 hawking in Nigeria and sub-Saharan Africa.

146 The data used in the qualitative segment were extracted from 3,873 street traders data collected from the
147 Central Business Districts (CBDs) areas across three major cities of Nigeria, namely, Lagos (in the South-west),
148 Kano (North west) and Port Harcourt (South-south). The data was collected through structured face-to-face
149 interview among the street traders. Only the women data (n = 1,613) was therefore extracted and analysed
150 for this section. Since, there is no doubt that economic effects impact on individuals differently and by age, it
151 was considered necessary, to analyze the data according to specific age grouping. Also, more than 22 items of
152 trade were recorded in the open-ended question but only 9 categories emerged after the 'axial coding' procedure.
153 Quantitative data were thus analyzed using a combination of univariate and multivariate analyses in determining
154 the interrelationship among the variables of interest. The information from non-participatory direct observation
155 was also presented as complement to survey results.

156 5 IV. Results and Discussions a) Socio-demographic profile of 157 respondents

158 As typical of any nation with younger population, the result shows that there is higher proportion of women
159 street traders in the younger age group (15) ??16) ??17) ??18)(19) ??20) ??21)(22)(23)(24)(25)(26)(27)(28)
160 ??29)(30)(31)(32)(33) ??34). The average age of women traders is 26 years indicating that the majority of
161 women street traders are young women in their prime of age (Appendix I, Table 1). More than half of the women
162 (53.2 percent) were single as at the time of the survey while the separated, widowed or divorced were 4.1 percent
163 and about 42.7 percent were married as indicated in table 1. The high proportion of singles accounts for the

164 migratory nature of the traders. Respondents in this category could be regarded as 'adventurers' who move in
165 and out of the environment in search of greener pasture. The age distribution of the women street traders depicts
166 a normal distribution with the peak concentrated at age 25-34 years and declining after age 44 (Table 1). The
167 result among others also indicated that 1.1 percent of the traders are below 15 years of age. While the under-15
168 are not expected to be Out of the three geo-political zones selected for the study, women from the south-east
169 geo-political zone constitutes about half of the traders interviewed. The proportion from the south west is 44.6
170 percent while only 6.5 percent of the women are from the north-west. The reason that could be adduced for this
171 lower proportion could be the 'pudah' practice in the North. The women are not permitted by Islamic tenets to
172 work and their movements are so restricted to the households. The religion affiliation statistics indicated that
173 Muslim only constitutes 19.2 percent while eight out of every ten women street traders interviewed are Christians.

174 Another important socio-demographic variable analyzed is the number of children ever born (CEB) by the
175 respondents. This typically measures the average number of children that a woman has ever given birth to.
176 In this context, all the women interviewed were asked to indicate the total number of children they have ever
177 had. This is used among other things, to evaluate their fertility behaviour and to provide an overview of the
178 likely economic burden of children on their trading activities. The result (as indicated in table 1) shows that
179 average CEB is 4 children and 71.4 percent of the respondents are at zero parity. This corroborates the earlier
180 findings that larger numbers of the traders are singles. This is a fundamental characteristic that makes them
181 more vulnerable to physical and job mobility. In addition, the proportions that have five children and above are
182 only 3.8 percent (table 1).

183 The employment status is used to categorize the ownership of business into employees, apprentices, family
184 workers or own-account workers. The result of the analysis shows that eight out of every ten women street
185 traders are 'own-account workers'. Precisely, 84.1 percent claimed to own the business they are doing (Table 1).
186 Those that are working for family members or directly receiving wages from the activities and the volunteers are
187 7.6 percent. The employees constitute only 6.5 percent while those that are under training (i.e. apprentices) are
188 less than one percent (Table 1).

189 Several variables were used in evaluating the vulnerability of women in street trading activities to workplace
190 hazards. Prominent among them are the nature of the trading, product category, frequency of selling articles on
191 the roads, experience of harassment, frequency of engaging in other secondary occupations, etc. These variables
192 are selected to assess the vulnerability to stress and other associated health risks inherent in them. The result
193 shows that about half of the respondents (48 percent) are peddlers who rove (move along) on the roads to sell
194 their wares while the sedentary traders are 52 percent. This latter group involve individual sellers who are
195 seemingly desk-bound e.g. sellers that uses table tops, makeshift shops, spread their wares on the ground or use
196 display glass boxes by the road side. The result also indicates that half of the women interviewed are constantly
197 'sharing' the road with the 'moving vehicles' in an attempt to sell their wares. The non-participatory observation
198 shows that an average peddler runs after a moving vehicle to sell his stock. Where the transaction could not be
199 completed before the vehicle accelerates or moves away speedily, the ware or the money is flung to the road by
200 the 'boarded buyer' and the peddler tactically wait for a safe opportunity to pick up the money or the wares
201 as the case may be. Occasionally, those goods are driven on by careless drivers which results into losses for the
202 seller. As indicated in the theory ?? Lu, 2011; ??rniza, 2011). Because they have no control over the movement
203 of the vehicles, they can suffer extortion. Commuters may not pay the correct amount before the vehicles 'roll
204 away'. Notwithstanding that higher proportion of them are not married, the stress in street trading can make
205 their bodies to be worked-up. This might become dangerous to their reproductive lives either presently or in the
206 future.

207 Among the profound discoveries from this study is the rising rate of assault or harassment suffered by the
208 street traders. The survey indicates that more than half of the women street traders have experienced one assault
209 or the other in the course of plying their trades. Precisely, 55.4 percent of the women have fallen victims to such
210 harassment while trading on the streets, 43.6 percent claimed they have never experienced any harassment as
211 shown in table 2 (Appendix II). In the same vein, one in every five women street traders has been injured while
212 trading on the road and 52.1 percent of respondents have witnessed or seen their colleagues injured in the course
213 of trading on the road (Table 2). These revelations are pointers to the degree of work hazards that the women
214 are exposed to. Various harassments indicated range from bullying, beating, seizure of wares, forceful extortions
215 while rape is not impossible (Palmer & Cooper, 2004; Lee, 2004). Although, there is no causal link between
216 the harassment suffered and the injuries sustained, it could be conjectured that these kinds of harassment as
217 observed and also indicated by the respondents could possibly lead to injuries. Harassing these traders in the

218 6 Year

219 The study further assessed the respondents' earnings notwithstanding the sensitive nature of the measurement
220 and that it is always fraught with challenges (Moore, ??tinson & Welniak, 1997; Davern, 2003). Notwithstanding
221 however, respondents were asked to indicate their total income per week and their average daily expenditure.
222 The result shows that the average sale per day is less than N2,500. 86.6 percent of the women sell below N10,000
223 worth of goods daily. Those that record between N10,000 but less than N20,000 worth of goods are 9.2 percent
224 while only 2.2 percent sell goods worth N20,000 and above as shown in table 1. The observed daily expenditure
225 is not commensurate with the total weekly sales observed. Majority of the respondents expended up to N5000

226 as their daily expenditure while 13.2 percent indicated more than that amount as their daily expenditure. Although,
227 no further verification was made on these claims, the non-participatory observation indicated that it is not likely
228 that their businesses cannot cater for their daily upkeeps on the basis of the volume of wares they carry or
229 sell on the street. Among the specific reasons for involving in street hawking are inability to secure formal jobs,
230 constraints (including finance) in gaining admission to higher school and joblessness of the family's breadwinners.
231 b) Logistic regression estimating the relationship between selected profile of respondents and vulnerability to
232 workplace hazards Only one hypothesis was tested to confirm the interrelationship between activities inherent
233 in street trading and the incidences of injuries among the operators. The variable "ever injured" is interchanged
234 with workplace hazards. A logistic regression analysis was used in testing this hypothesis. The model is depicted
235 as:

236 Where, β_0 represents the intercept, e implies the residual value (or the error term). The X s are the various
237 street trading activities selected as predictors while the Beta (β) denotes the coefficients of the X s. The P_i and
238 $(1-P_i)$ means the probability of sustaining injury and the probability of not sustaining injury respectively.

239 Is therefore represents the log of the ratio of probability of incidence of injury to the log of probability of no
240 injury.

241 The result of the analysis shows that all education categories, nature of trading, religion affiliation, and the
242 intermediate age group (15-24 years) are negatively associated with incident of injury. Positive associations were
243 observed among location of study, employment status, marital status searching for other jobs, employment status,
244 marital status and the intermediate age group of the respondents and incident of injury.

245 Specifically, the result indicated that respondents with primary, secondary and tertiary education are 0.879,
246 0.553 and 0.818 less likely to be injured while trading on the street compared to individuals who have no formal
247 education. However, only secondary education is statistically significant (Pvalue = 0.015). Similarly, while
248 migrants from the south are 1.827 times more likely to experience workplace hazards, their counterparts from the
249 north will be 2.678 times more likely to be exposed to incidence of injury. The results are statistically significant
250 at p-values 0.014 and 0.005 respectively. The significance influence of religious affiliation indicated that the
251 Christians and Moslems traders are 0.153 and 0.235 times less likely to experienced injury on the road compared
252 to the tradition region (p-values of 0.019 and 0.075 respectively).

253 The result further indicated that only the intermediate age (15-24 years) is negatively related and are 0.801
254 times less likely to be involved in accidents on the street than other age categories. This group is more agile in
255 nature and possesses the ability to swift movement which could aid them to escape or 'dodge' accident. In the
256 same vein, those in age group 25-34, 35-44 and the under aged (less than 15 yrs) are 1.023, 1.024 and 1.599 more
257 likely to experience workplace accidents vis-à-vis the reference category (age 45 and above). Marital status is
258 observed not be significantly related to the incidence of injury.

259 Women who have experienced harassment are 1.195 times more susceptible to injury compared to those who
260 have never experienced any form of harassment while running their businesses on the streets. Overall, the model
261 summary shows 81 percent accuracy though the interrelationship evaluated is relatively week as shown by Cox
262 & Snell R Square of 0.043 and Nagelkerke R Square of 0.068.

263 7 V. Conclusion and Recommendations

264 The result of the analysis shows that street trading is a risky type of business activity that makes women to
265 be more vulnerable to workplace hazards. The exposure of women in this regard should not be Street Trading
266 Activities and Maternal Health in Urban Areas of Nigeria taken for granted. Besides, maternal health could
267 undoubtedly be negatively affected as a result of perennial physical exhaustion, physical abuse and inherent stress
268 in street trading. However, the fact that the magnitude of women participating in street trading is high implies
269 that its re-organization will yield economic dividends for the nation. Without gainsaying, the job has provided
270 opportunities for entrepreneurship and self-employment. However, the impact of the business on the welfare of
271 the operators is not very obvious at least if weekly income is compared with high weekly expenditure recorded
272 in the study. This would be likely impairing opportunity for re-investment and as such keep the women poor
273 continuously. The authors suggest that due recognition be given to the activity and street traders-government
274 initiative or partnership be put in place in order to safeguard the health of the operators.

275 8 Global Journal of Human Social Science

276 1 2

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Figure 1:

$$E_{\text{in}} \left\{ \frac{n_1}{(n_1 + n_2)} \right\} = \alpha_{11} + \beta_{11}X_{11} + \beta_{12}X_{21} + \beta_{21}X_{12} + \beta_{22}X_{22} + \alpha_{22} \quad \dots \dots \dots \quad (i)$$

Figure 2: Street

$$E_{\text{in}} \left\{ \frac{n_1}{(n_1 + n_2)} \right\}$$

Figure 3: Street

1

Socio-demographic Variables		No	%	Socio-demographic Variables	No	%
Geo-political Zone				Employment Status		
South-West	720	44.6		Self Employed	1356	84.1
South-East	788	48.9		Employee	105	6.5
North-West	105	6.5		Unpaid family worker	115	7.1
Total	1613	100.0		Apprentice	28	1.7
Age Group				Volunteer & Others	9	0.5
Less than 15 years	17	1.1		Total	1613	100.0
15-24 years	536	33.2				
Year	25-34 years	557	34.5	Earning per week (N)	659	40.9
	35-44 years	241	14.9	Less than N2,500		
2 54	45-54 years	87	5.4	N2,500 -N4,999	472	29.3
	55-64 years	23	1.4	N5,000 -N9,999	264	16.4
Volume	65 & above	Total	Mean	N10,000 -N14,999	109	6.8
XII	age = 25.9	years	?	N15,000 -N19,999	39	2.4
Issue	years	Marital Status		N20,000 & Above	34	2.1
W	Never married	Married		Total		
XV	Separated/Divorced			Average Expenditure per	1577	97.8
Ver-	Widowed	Total Religious		Day Less than N1,000	870	53.9
sion	Affiliation	Christianity		N2,000 -N2,499	408	25.3
I (D	Islam	Traditional		N2,500 -N4,999	122	7.6
D D				N5,000 -N7,999		
D)				N8,000 & Above	38	2.4
A				Total		
Global	Total	Educational attain-				
Jour-	ment	No Schooling		Children Ever Born	1152	71.4
nal	Primary	Princi-		(CEB) Zero parity	175	10.8
of	Education	Secondary		1-2 children	225	13.9
Hu-	Tertiary	Educa-		3-4 children	55	3.4
man	Total	Source : Street		5-6 children	1613	0.4
	Trading	2011.		7 & above		100.0
Social				Total		
Sci-						
ence						

Figure 4: Table 1 :

2

Figure 5: Table 2 :

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