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# A Preliminary Study of Literature Review on Health and Media Literacy in the Year 2015 Until 2020

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#### **Abstract**

Media literacy is the ability of individuals to understand, investigate, create, communicate, and think critically hence, media literacy should take part in accommodating health information in the evolving world. The globalization has captured the importance of media that not only educate and deliver information at the end of our fingertips but also as a powerful medium to influence. The objective of this article is to review the previous studies regarded of the level of media literacy and health the influences women particularly when making decisions on their postpartum practices after childbirth during the postpartum period. This articles also attempts to review whether food choices that are made to consider health factors or to rely heavily on local community traditions. This paper is a preliminary study of six years research related to the topic chosen. The literature research was restricted to studies published in English and Malay from 2015 to 2020. In order to understand about the media literacy and health of women, the past six years of research have conveyed that women do rely on internet, magazine, and radio for nutrition, dietary knowledge, and postpartum practices while simultaneously practicing old beliefs carried by the elderly of the family. Notably, social media and the general media play a significant role in providing information for mothers or women in general in regards to health communication retrieval and women are in no doubt have high media and health literacy when it comes to antenatal and postnatal. The relationship between media literacy influencing health and postpartum practices were consistent as majority of studies agrees that mass media influence mothers' pre and postpartum period regardless demography, income and educational level.

Keywords: Childbirth, Food, Health, Media Literacy, Women

#### Introduction

Media literacy is the ability of individuals to understand, investigate, create, communicate and think critically. Media literacy is essential to ensure that an individual is able to access, organize, analyze, evaluate and create messages in various forms. Media literacy is an important aspect to be given attention and focus, not only by researchers but also by other stakeholders to create a media-literate society. The importance of any country especially Malaysia to having a media literate society in the era of globalization is particularly important in relation to health. It is in line with the government's aspiration to becoming a developed nation at the same time as the health of its people is the best as outlined in the fifth core of one of the seven pillars of the Shared Prosperity Vision 2030 (WKB2030), which is social well-being. As a catalyst

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towards this, women in this context are one of the catalysts in realizing WKB2030. In this regard, this group needs to be given attention in bringing forth, knowledgeable and capable generations to contribute to the nation. Media literacy, especially in health, is one of the most important elements that need to be taken seriously. More specifically, media literacy is very much needed in the context of health involving women after childbirth because these groups are at high risk for various health complications.

## **Literature Review**

The role and importance of media literacy have long been discussed since it was first made based in Malaysia in the 1980s when Malaysian Institution of Microelectronics Systems (MIMOS) became its sole provider in Malaysia (Asia Internet, 2010). Media literacy is the ability to literate, adhere, and utilize media. Consequently, new media began to the advent and find its way to compliment internet functions. Hence, the new media and the internet became the most reliable tool used or education purposes, and interaction. To operate and utilize any kind of media, media literacy is needed for everyone to comprehend the basics fundamental of media.

Simultaneously, since search engines became familiar to us along with the internet, many social media platforms were introduced as the result of the excavation of new media concerning every aspect namely education, economy, politics, entertainment, and even health. Social media is a computer-based technology that facilitates the sharing of ideas, thoughts, and information through the building of virtual networks and communities (Dollarhide, 2019). Within the context of this study, social media is said to play a significant role by being the mediator or channel of delivery of information for individuals pertaining to health information related to postpartum practices. Social media provide health care professionals with tools to share information, to debate health care policy, and practice issues, to promote health behaviors, to engage with the public to educate, and interact with patients, caregivers, students, and colleagues (Zulkefli, Iahad, & Yusof, 2018).

Today, everyone was able to seek information at the tip of their fingers, as health-related questions can sometimes be humiliating to inquire when face-to-face with a health provider, doctor, or nurse, hence with the internet's help, most can address their concerns to the web without having to bear this embarrassment. Information seeking refers to the "purposive seeking for information as a consequence of a need to satisfy some goal" (Wilson & Williams, 2000; Ahadzadeh & Sharif, 2017). Meanwhile, Rahim, Ibrahim, Salim, and Ariffin (2019) defined health information as information related to health, including health service provided for individuals or communities. In particular, information and knowledge that involve postnatal or postpartum nutrition, dietary, physical activities, and so on may be limited for an individual, and having that said, the internet is left to be the only aid.

Health information seeking is a manifestation of self-health management. Importance of health information-seeking behavior is said that it can promote individuals' health knowledge, formulate their judgments, beliefs, and attitudes toward healthy behaviors accordingly and empower them to make an informed decision about health eventually (Goonawardene, Jiang, Tan, Park, & Su, 2013; Jamal, Khan, AlHumud, Al-Duhyyim, Alrashed, Shabr, Alteraif, Almuziri, Househ, & Qureshi, 2015; Ahadzadeh & Sharif, 2017). Since this study revolves around the information-seeking

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or reliability of postpartum nutrition, dietary and practices of mothers during the confinement period in Kota Kinabalu Sabah.

When referring to health beliefs, attitudes, and behaviors, terms such 'taboo' have always managed to surface. Taboo in this study refers to the cluster of food that is restricted upon taken during the postpartum period that often lasts for three to eight weeks or up to 40 to 100 days according to common Malay practices. Another similar term that may be associated with taboo in this context is restriction, it is the prevention or restraining a person from committing anything that is considered 'wrong', unethical or unhealthy during the postpartum period. Some restrictions during postpartum include doing house chores, going out of the house, eating 'cold' food, and having intercourse or any extreme physical activities. Beliefs on the other hand is a set of acceptance, understanding, or faith that is usually upheld by individuals and it may differ to others.

The objectives of this paper is to review the previous studies regarded of the level of media literacy and health the influences women particularly when making decisions on their postpartum practices after childbirth during the postpartum period. This articles also attempts to review whether food choices that are made to consider health factors or to rely heavily on local community traditions. The selected articles from local and abroad were chosen to analyze the trend of postpartum practices patterns, beliefs of Malay, Chinese, Indian, and Indigenous women in Malaysia, postpartum taboos, roles of midwives, restrictions, dietaries, postnatal morbidity factors, health information pattern and their sources, postnatal depression indicators, postpartum support, postpartum nutritional knowledge, and health information seeking pattern in Malaysia.

This article review includes the studies of postpartum information and mass media utilization from other countries, valuable information of postpartum, health literacy information based on races, postpartum literacy limitation factors, effects on social media on mothers, mass media for postpartum social support, and mass media roles in helping women's health literacy and education.

### Methodology

This is a narrative review of published quantitative and qualitative studies, review papers, and theses on past postpartum research practices, nutrition knowledge, and dietary and past research on media utilization or information sources for postpartum or health literacy. An electronic literature search was conducted using Mendeley. The literature research was restricted to studies published in English and Malay from 2015 to 2020. The keywords or phrases used during the literature search were childbirth, food, health, media literacy, and women. Once related articles were identified, their reference lists were also used to identify additional articles. There are 57 articles in total, 38 of them are Malaysian articles while the remaining are studies or articles published outside of Malaysia. Out of 57 articles, 41 articles have met the specific criteria for this study.

### Quality Assessment

This paper is based on original articles, theses, review, and studies while conference paper, symposium papers are all excluded from this review. Paper duplications were also checked thoroughly to ensure no publication of articles in this review. Both abstract and conclusion were screened in detail to identify the scope of study. Lastly, references, bibliography, and citations were cross-checked to explore any similar studies.

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#### Eligibility and Inclusion Criteria

The list of relevant literatures was taken for comprehensive and thorough selection to match the criteria set for this research. The articles selected are published in either Malay or English. Among the themes that were included are postpartum practices patterns, support and nutritional knowledge, health information pattern health literacy, mass media utilization on postpartum nutrition, postnatal depression indicators, and effects of social media on mothers. During the literature collection, article with open access and non-open access were both selected. Quantitative study is widely used for most of the literature.

### Studies Included in Qualitative Synthesis

Once the selection of 57 papers was completed, all the literatures' information was narrowed in Microsoft Excel to a descriptive table of analysis of the published literature synopsis, citation, objective, dependent and independent variable, instrument, sample, sample size, timeframe, analysis tool, relevant findings, and outcomes. This step was done to identify and analyze the main research or article streams and fulfill the gaps in the current study. This step also foresees the upcoming opportunities and challenges for the study.

### **Findings**

The literature review of six years from 2015 until 2020 is divided into two themes; years of research, past postpartum research practices and health literacy which included nutrition knowledge, dietary and past research on media utilization or information sources for postpartum. To provide in-depth information on how evolved the postpartum practices in Malaysia, a straight-forward comparison will be made. There are 41 articles from 2015 to 2020 that divided into two themes of health literacy and postpartum practices in order to find out the level of media literacy and health the influences women particularly when making decisions on their postpartum practices after childbirth during the postpartum period.

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Table 1 Literature Review on Health and Media Literacy in the Year 2015 until 2020 by Health Literacy Theme

		THEME: HEALTH LITERACY	
Title of the article	Author	Findings	Year of Publication
Impact of mass media on the utilization of antenatal care services among women of rural community in Nepal.	Acharya, Khanal , Singh, Adhikari, & Gautam.	A majority of mothers were exposed to mass media. Radio was accessible to most (60.0 %) of the partici- pants followed by television (43.41 %). Mothers exposed to mass media were more likely to attending antenatal visits [Odds ratio (OR) 6.28; 95 % CI (1.01–38.99)], taking rest and sleep during pregnancy [OR 2.65; 95 % CI (1.13–6.26)], and receiving TT immunization [OR 5.12; 95 % CI (1.23–21.24)] than their non-exposed counterparts.	2015
Scenario on health information seeking in Malaysia: A systematic review.	Hamzah, Mohamad, Abdullah, & Hadi Ayub.	The study of the health information seeking in Malaysia is still minimal. From empirical analysis perspective, there has not been much study on various issues arising in the context of health information seeking. Scholars mentioned that although there are no significant differences pertaining to information seeking in a different context in health, it however must be noted that the issues inherent in the health context is different. This is due to the various subject of analysis such as type of disease, the environment, and psychology, culture and health status.	2015
Prevalence and risk factors for postnatal depression in Sabah, Malaysia: A cohort study.	Aza Sherin Mohamad Yusuff, Tang, Binns, & Lee.	A substantial proportion (14%) of mothers had experienced depression during the first six months postpartum in Sabah, Malaysia, based on our prospective cohort study. Antenatal depression, lack of assistance with infant care from the husband, dissatisfaction with marital relationship, and consistent worries about the infant, were all associated with an increased risk of postnatal depression, according to the logistic regression analysis. Screening and intervention programmes targeting these vulnera- ble subgroups of women during antenatal and early postpartum periods are recommended to deal with the problem.	2015
Postpartum Health Information Seeking Using Mobile Phones: Experiences of Low- Income Mothers.	Guerra-Reyes, Christie, Prabhakar, Harris & Siek.	Interviewees reported almost exclusive use of mobile phones to access the Internet. Mobile applications were widely used during pregnancy, but were not valuable postpartum. Faceto-face information from medical professionals was found to be repetitive. Online information seeking was mediated by default mobile phone search engines, and occurred over short, fragmented time periods. College graduates reported searching for authoritative knowledge sources; non-graduates preferred forums	2016
Nutritional knowledge, attitude and practice among antenatal and postnatal mothers in	Ikhsan, Nasaruddin, Othman, Aziz & Ismail.	Maternal education is the single most important predictor that may influence nutritional knowledge and practice. However, there was no significant relationship between education and nutritional attitude, as attitude may be inborn with them considering one's different upbringing. It is crucial for a mother to be educated, as this will confer	2016

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Hospital Tengku Ampuan Afzan (HTAA)		good knowledge, attitude, and practice during the upbring prevent vicious circle of poor nutritional attitude, tudy results of empowering girls and women with proper adequate education nutritional and health education of our educational system. The regarding nutrition in pregnancy need to be enhanced, as this was to choose a healthy diet for safe pregnancy. Thus, this study was in initiating intervention as early as before embarking the the appropriate group, especially the poorly educated worms.	emphasize the importance fons and to strengthen the This study more education ill also help pregnant women will in turn help government pregnancy period, targeting
The use and value of digital media for information about pregnancy and early motherhood: A focus group study.	Lupton	The results revealed a high use of pregnancy apps: almost three used at least one pregnancy app while half reported using at a vast majority of respondents who had ever used a pregnancy apps useful or helpful, particularly for providing infor development and changes in their own bodies and providin women used parenting apps, those who did also found them use for helping to monitor their children's growth and developmen All respondents were asked what online media other than app parenting information or support. Only 9 % of respondents online media. The answers from the other respondents demonvery popular (57 % used them for pregnancy, 66 % for pardiscussion groups (26 % for pregnancy, 28 % for parenting) a %, parenting 33 %).	least one parenting app. The app said that they found the rmation, monitoring foetal g reassurance. While fewer ful as sources of information, t and to provide reassurance. It is they used for pregnancy or said that they used no other instrated that websites remain renting), followed by online
Online health information seeking among Malaysian women: Technology acceptance model perspective.	Ahadzadeh & Sharif	Findings also suggest that attitude was significantly predicted perceived ease of use. Moreover, this study found that att influence of perceived usefulness on online health information perceived ease of use indirectly influences online health in attitude	itude partially mediates the ation seeking. Furthermore,
Inadequate health literacy on childhood immunization and its predictors among antenatal mothers.	Nazatul Yusrina Mohamad Yusof, Nor Afiah Mohd Zulkefli, Suriani Ismail, & Mohammad Faiz Abd Rashid	Out of 362 respondents, 81.2% were inadequate health lit maternal education, residential area (and utilization of govern of health education with regard to immunization need to be strellow education and those staying in rural area. In addition, he emphasize on the individual that is employed and low economic	ement hospital. Accessibility engthen among primigravida, alth education also needs to

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		of government hospital. A simplified education material with interesting pictures and using visual aids help illiterate people for better understanding.	
Reproductive health information needs and maternal literacy in the developing world: A review of the literature.	Zimmerman	Some of these interventions have met information needs related to family planning, HIV/AIDS, sexually transmitted infections, violence against women, sexuality, pregnancy education, and emergency obstetric care	2017
The relationship between media literacy and health literacy among pregnant women in health centers of Isfahan.	Akbarinejad, Soleymani, & Shahrzadi.	The results showed that more than half of pregnant women covered by health centers have inadequate or marginal health literacy. his discrepancy may be due to the fact that women with high education and high social classes usually prefer to go to private clinics instead of public health centers. Furthermore, a large percentage of respondents over age 30 were housewives, which low levels of health literacy appears to be due to low educational levels.	2017
The Feasibility of Providing Nutrition Education Through a Wic App To Augment Healthy Eating, Breastfeeding, and Physical Activity Behaviors Amoung Wic Participants.	Monica Silva	This study strongly support the strategy of a WIC app to be an effective tool for supplementing nutrition education. Smartphones may be able to bridge various socioeconomic gaps to facilitate targeted health behaviors. Observations made in the context of this research also establish the perceived ability for WIC app features to address cited barriers such as lack of information, support, and strategies for altering health related behaviors, it also suggest similar usage of technology can improve health behavior maintenance by increasing confidence level and enhancing patient to provider communication within this population.	2017
Benefits of Social Media Platform in Healthcare	Nur Ain Zulkefli, Noorminshah A. Iahad, & Ahmad Fadhil Yusof.	Several studies have shown that social media platforms facilitate patients to share and acquire health information and knowledge such as symptoms, with health experts such as medical doctors or medical researchers. A review study showed that Facebook and Twitter are used by both researchers and patients with the aim of accessing information related to epilepsy while Facebook was utilized by the patients, survivors, and donors in order to share and exchange cancer information. While conducting a review study, found that health information shared on social media platforms is usually targeted at a range of populations; from the general public to specific patients sing social media platforms for healthcare in general public are believed to facilitate them to increase awareness related to health and	2018

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		disease. Also, it is targeted to educate the general pu stigma regarding particular disease in order to mo strong to fight with their disease. Whereas, for patie platforms for healthcare purposes give an opport exchange information and social support	otivate and encourage patients to keep ent perspective, integrating social media	
Mother, baby and Facebook makes three: does social media provide social support for new mothers?	Archer & Kao.	The focus groups revealed that Facebook is used by (or only) social media platform, which aligns with a media. A very small minority did not use Facebook decision to stay away from social media. A small Twitter, Pinterest or Instagram (Instagram was use Instagram usage may have increased since the focut this finding broadly reflects the mainstream adult pmedia users in Australia on Facebook in 2017, for 2017). The messaging app WhatsApp was popul overseas or interstate. Email was still used by the work forms of communication; however, it was seen as my whelmed by the volume of emails from commercial	the general population's usage of social c, and this was the result of a conscious ler number of women discussed using sed to 'follow' older children). While us groups were conducted in late 2015, population's usage, with 94% of social billowed by 46% on Instagram (Sensis, lar with women whose families were women (and some playgroups) for some more formal and participants were over-	2018
Social media as social support in pregnancy and the postpartum.	Baker & Yang	The ubiquity of the online environment along with changes of single mothers, working mothers, and a family contribute to the creation of new models of media networks. the potential exists for social media concern, and attention that make a pregnant woma valued, and provide the emotional support to prepare this study provides a big picture of the phenomeno detailed demographics or granularities about social	hanging family structures and increasing mothers who do not live near extended social support which incorporate social a networks to provide the interest, caring an and a new mother feel respected and promote her individual strengths and ocial media use among perinatal women, on and was not designed to characterize	2018
	Ginja, Coad, Bailey, Kendall, Goodenough , Nightingale, Smiddy, Day, Deave, & Lingam.	Social support is associated with mental well-being mothers. This association was not significantly a measured in our survey. Future work should in technologies yield greater potential to enhance the self-efficacy of antenatal women	and self-efficacy in antenatal first-time affected by general technology use as an effected by general technology use as	2018

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Traditional Belief and Practice on Postpartum Recovery among Mothers in East Coast of Peninsular Malaysia.	Ghani & Salehudin.	The factors that influenced respondents to do postpartum care practice were self-belief, family tradition, family pressure, influenced by close friends, and convenience. It has been found that the family tradition was the most influenced factor among respondents with 83 % of the mothers. There were five elements that contribute to knowledge of postpartum care which were family tradition, acquired health education, recommended by midwife, internet and others. Family tradition has contributed the most to knowledge of postpartum care among mothers	2018	
Perception on Postpartum Dietary Practices Among Malay Women in Kuantan, Pahang.	Basir, Rahman, Abu Bakar, & Shukri.	It was found that 100% of respondents mentioned that they do observe the traditional postpartum practices after childbirth with most of them (63.0%) chose to confine for up to 44 days. Flavored rice, roti canai and various types of noodle were generally avoided during postpartum period due to their oily/fatty property. Tubers, and most fruits and vegetables were also avoided due to their old property. Moreover, the famous reason for exclusion of fish causing itchiness for seafood. Milk and dairy products were included in majority of respondents diet. Out of 80, 43 (53.8%) respondents avoided soy sauce because it was believed to give negative effect on wound healing. Other than that, iced drink, tea and sugarcane drink were avoided due to their cold and 'sharp' properties. In addition, statistical tests of all food items show that there is no difference in terms of level of acceptance for each food between women delivered via normal delivery or caesarean section. It is concluded that postpartum food taboo beliefs are still prevalent among Malay women. Extensive food prohibition and restriction causes limited food choices which may affect mothers nutritional intake. Thus, a more balanced diet should be recommended for Malay mothers during postpartum period to ensure adequate nutrient intake, as much as culturally acceptable.	2018	
New media literacy and media use among university students in Malaysia.	Shin, & Hasmah Zanuddin.	The findings showed that most of the students are at the medium level of new media literacy. No significant difference was found in new media literacy based on demographic factors, except media use which also had a small positive correlation with two dimensions of new media literacy, namely functional prosumption and critical prosumption. The findings served as a valuable input for public or private institutions or organizations that are responsible or keen in tackling fake news.	2019	
Health information engagement factors in Malaysia: A content	Rahim, Ibrahim, Salim, & Ariffin.	The growing trend of online health-seeking behaviors and demand for the availability of validated health information on social media platforms requires effective strategies by health organizations to disseminate health information to internet users. An educational or risk	2019	

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analysis of facebook use by the ministry of health in 2016 and 2017.			communication post appealing to emotions such as cupublic perception and encourage behavioral actions. M and timely dissemination of messages can achieve be media. These findings have important implications for media health communication strategies by health organisal conclusion cannot be inferred from this study, the health information factors we analyzed in this study on social media.	oreover, a FB post with video content etter audience engagement on social r the development of effective social ganizations in Malaysia. Although a at a minimum, we can conclude that	
Web elements for health promotion in Malaysia.	Marwan Noman, Tee, & Krishnan.	Koo,	Based on the discussions obtained on the factors of we promotion, the results of this paper highlight the promotion users, especially on web ele- ments on users highlights implications for web developers and policissues affecting motivation factors in enabling partipromotion. The difficulty with the model which the change' category which appears vague. If the model i haviour change, it must be adequate regarding the related to display, he categories related to motivation four engagement, helpful, intention and encouragement. If features of a website. It is apparent that this example (the notion of 'helpful', It is not the characteristic within finding appear in this study is the definition of the terrifers to the intention of the research subject when the the purpose of the website.	requirements of web- based health s' motivation and future usage. It also by- makers to overcome barriers and cipants to use web- sites for health us highlights is the 'mechanism of s to be an input—output model of bela- tionship between the components and in this study are avoid burdens, the notion 'avoid burdens' relates to avoid burdens) is very different from a the website it- self. Another research m intention. It is unclear whether this	2019
MHealth communication to strengthen postnatal care in rural areas: A systematic review.	Mbuthia, Reid, Fichardt.	&		Behaviural Prediction (IMBP). One- ype of mHealth communication used. entions, skills, and environmental ions were influenced by attitudes, as well as changed attitudes toward ere enhanced were delivery at a health int and professional health support of	2019

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		by mothers who attended scheduled appointments and they were confident with regard to newborn care practices. Skills for PNC that were improved included cord care, thermal care, appropriate breastfeeding and problem-solving. The environmental constraints faced and which were addressed in the studies included inaccessibility, unavailability and unaffordability of PNC services in rural areas.	
Complementary medicine products: Information sources, perceived benefits and maternal health literacy.	Barnes, Barclay, McCaffery, & Aslani.	Pregnant and breastfeeding women use complementary medicine products for various self-perceived benefits related to their own, unborn or breastfeeding babies' health. Examining these with reference to an interactive health literacy model helps identify the decision-making process mothers undergo when choosing to use complementary medicine products.	2019
Web-based versus home- based postnatal psychoeducational interventions for first-time mothers: A randomised controlled trial. International	Jiao, Zhu, Chong, Chan, Luo, Wang, Hu, Chan, & He	The web-based intervention improved self-efficacy at post-test 1 (mean difference = $2.68$ , p = $0.028$ ) and reduced postnatal depression at post-test 3 (mean difference = $-1.82$ , p = $0.044$ ), while the home-based intervention did not show significant effect on these two outcomes at all post-tests. Both web-based and home-based interventions helped mothers to get better social support at all post-tests than those in the control group. Mothers in both web-based and home-based intervention groups were more satisfied with the postnatal care than those in the control group at all post-test time points The web-based intervention had better effects on improving self-efficacy, social support, and postnatal depression, which should be introduced to first-time mothers for better postnatal care.	2019
Use of Social Media in Health Communication: Findings From the Health Information National Trends Survey 2013, 2014, and 2017.	Huo, Desai, Hong, Turner, & Bian	Respondents in the year 2014 had a higher odds of social media use for exchanging medical information compared to those in the year 2013. Respondents who used social media for exchanging medical information had higher cancer knowledge and more reasonable and optimistic views about cancer. The use of social media to share health information in social media platform has reduced significantly over time, while the use of social media to exchange medical information with a health-care professional has increased. The findings in the opposite direction in temporal trend in the use of social media to share health information and trend to exchange medical information with a health-care professional suggest heterogeneity in health communication. The overall rate of respondents in use of social media to share the health information in 2017, 16%, has been more than doubled compared with the rate of 6% reported in a research	2019

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A social media intervention to improve nutrition knowledge and behaviors of low income, pregnant adolescents and adult women.	Vander Wyst, Vercelli, O'Brien, Cooper, Pressman, & Whisner.	Further efforts are needed to educate this high-risk motivate dietary change for maternal and child health considering that the majority of participants who enwere more likely to experience EGWG during tincreased access to social media, the adults had his study. Future interventions are needed to further evaluations are needed to further evaluation and the best way in an effective and enjoyable way.however, overall limited. Social media-based education was well recin large changes in dietary intake and knowledge.	h outcomes. This is especially important tered pregnancy as overweight or obese the intervention. Although teens have gher levels of participation during this cluate the type, frequency and sources of to implement social media interventions knowledge of MyPlate Guidelines was	2019
Pregnancy-related information seeking and sharing in the social media era among expectant mothers in China: Qualitative study.	Zhu, Zeng, Zhang, Evans, & He.	Overall, 80% (16/20) of participants were aged in the had used social media for pregnancy-related purpos were merged into 4 themes, namely, gravida, fetus whereas for sharing behaviors, 10 codes were merged delivery, and caretaker. Lurking, small group shat checking were identified as the preferred patterns (19/20) of participants reported a positive mental in their pregnancy.	ses. For the seeking behavior, 18 codes s, delivery, and the postpartum period; ed into 4 themes, namely, gravida, fetus, uring, bad news avoidance, and crossfor using social media. Overall, 95%	2019
Information and communication systems to tackle barriers to breastfeeding: Systematic search and review.	Tang, Gerling, Chen, & Geurts	Most interventions come in forms of client confrequently leverage Web technologies, text mes breastfeeding support. Systems predominantly focus rather heterogeneous, with 12 user studies concerning clinical validation studies focusing on the effects determinants; 5 papers did not report results. Governmenter communication tools or Web-based solutions) sees interventions (eg, games). Existing information and means of improving breastfeeding outcomes, but the parenthood (eg, the antenatal period) and often do not as partners. There is an opportunity to leverage more avenues for the broader design of ICT to support evaluation outcomes of existing support systems of to be designed with care.	essage, and mobile apps to provide so on mothers; validation strategies were ingusability and user experience and 18 of the interventions on breastfeeding enerally, straightforward systems (eg, em to be more effective than complex communication systems offer effective ey do not address all relevant periods in not involve important stakeholders, such e complex technical systems to open up of the breastfeeding; however, considering	2019

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Health literacy level and related factors among pregnant women referring to bojnord health centers in 2017	Hakkak, Joveini, Rajabzadeh, Robatsarpooshi, Tori, Haresabadi, & Hosseini	The health literacy of 387 (98.2%) was at opti revealed a significant relationship between health pregnant women. This study demonstrated that th of the women under study. However, the important health highlights that the health auth appropriate educational programs to promote the stratum.	literacy and age and educational level of e health literacy was a great deal in most rtance of health literacy in women and orities in the country need to develop
A comparative study on nutritional knowledge and dietary behavior between Korean and Chinese postpartum women.	Kim, Gray, Li, Park, Lee, & Song	They found they education plays a role in do knowledge and habits. Also, more pregnancy-relat and various and effective nutrition education program but can be practiced in the actual life, should be do	ed nutrition education should be provided rams, which not only transfer information
What matters to women in the postnatal period: A meta-synthesis of qualitative studies.	Finlayson, Crossland, Bonet, & Downe	Review of findings from 36 studies from 15 courdemonstrates that a positive postnatal experience to their new self-identity and develop a sense of adjust to changes in their intimate and family relative baby, navigate ordinary physical and emdynamic achievement of personal growth as they and parenting in their own cultural context. It community and professional support and activities exhaustion, and physical, emotional and psychological support and professional support and professional support and professional support and psychological support and psychologi	is one in which women are able to adapt confidence and competence as mothers, ationships, including their relationship to notional challenges, and experience the adjust to the 'new normal' of motherhood Effective, culturally appropriate family, ties can help women to overcome the
A systematic literature review paper on online medical mobile applications in Malaysia.	Khan, Qureshi, Mustapha, Irum, & Arshad,	mHealth apps are very common and the availabil are growing day by day. Traditional Health Care obut the mHealth still needs to improve in the discussing physical health and wearable devices in but serious diseases are cover in very some studies are not highlighted in the collected data. Patient re	of Malaysia is top of the list in the world, region. Past studies in the mHealth are details with connectivity to smartphones s. Like diabetes and HIV apps and patient

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	families are also part of some research studies a	nd that is very important for recovery in
	some cases. The security concerns are related to	
	trusting apps due to too much information as	ked by applications during installation.
	Researchers need to point out the agenda in future	studies to overcome the concerns of users
	about security issues. Normally mHealth applic	cations are very much user-friendly and
	people with a basic education can use very c	comfortably the features of apps. Some
	applications are still very much complicated, es	pecially with old people and uneducated
	users of smartphones.	

Source: Author

Table 2 Literature Review on Health and Media Literacy in the Year 2015 until 2020 by Postpartum Theme

	THEME: POSTPARTUM PRACTICES			
Title of the article	Author	Findings		
Traditional Postnatal Care in Restoring Women's Physical and Mental Health	Ministry of Health	There was limited fair level of retrievable evidence that suggest the effectiveness of traditional postnatal care in restoring women's physical (breast pain) and mental health (postnatal depression, anxiety, stress levels and quality of sleep). However, there was no retrievable evidence on safety and cost-effectiveness of traditional postnatal care. A postnatal care package consisting of deep tissue massage, hot compression (tungku) and abdominal wrapping (barut) as well as postnatal breast massage are provided free of charge in the Traditional and Complementary Unit in several dedicated governmental hospitals.	2015	
Traditional postpartum practices among Malaysian mothers: A review	Fariza Fadzil, Khadijah Shamsuddin, & Sharifa Ezat Wan Puteh.	This review shows that Malaysian mothers have certain postpartum practices that they considered to be important for preventing future ill health. Despite the perceived differences in intra-ethnic postpartum practices, most Malaysian mothers, although from different ethnicities, share similarities in their postpartum regimens and practices in terms of beliefs and adherence to food taboos, use of traditional postpartum massage and traditional herbs, and acknowledgment of the role of older female family members in postpartum care.	2016	
Factors associated with severe maternal morbidity in Kelantan, Malaysia: A	Noor, Hazlina, Aziz, & Sulaiman.	Study suggests the enhanced screening and monitoring of women of advanced maternal age, women with past pregnancy complications, those who underwent caesarean section deliveries, those who delivered preterm and the mothers referred to tertiary centres as they	2016	

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comparative cross- sectional study.		are at increased risk of severe maternal morbidity. to specific and targeted strategies aimed at tackling		
Postpartum dietary restrictions and taboos among indigenous Temiar women in Peninsular Malaysia: A qualitative study	Sharifah Zahhura Syed Abdullah, Nilan, & Germov	Despite variations in locations, there were five a postpartum period: cooking oil, salt, monosodium g domesticated animals. Dietary restrictions begin if from seven, eight, and fourteen days to one mont other prescribed avoidances for mothers after deliplaced upon women during the postpartum period the newborn baby and also the community. It appears the most traditional or the least traditional locations in the form of taboos during the female reproduct generation by their elders.	glutamate, sugar, and meat from game or immediately after childbirth and varied th. Besides food restrictions, there were vering a baby. Conclusion: Prohibitions are intended to protect the new mother, ars that regardless of whether they live in is, the Temiar lineage and societal norms	2016
Postnatal Care Practices among the Malays, Chinese and Indians: A Comparison	Zuraidah Mohd Yusoff, Asmiaty Amat, Darlina Naim, & Saad Othman	For the Chinese community, the confinement peribirth depends on the individual but usually it spans 44 days as the duration observed by the Malay won with food and nutrition during the confinement periencouraged to drink lot of plain water instead the are preferred. The Chinese society also emphasizered date and 'lihing' during confinement. However tangas or any steaming rituals like the malays. The prather similar to those practices among the Malays. is allowed to bathe but only with warm water that I (Azadirachta indica), mengkudu (Morinda citri Negundo) leaves. Similar to the Malay and the Chin restriction during the confinement period. The bas greatly emphasized by the three races is the fear of illnesses such as body aches, fever and bloating in the Food restriction is being observed in all the three races is determined.	a period of one month (30 days) or up to man. the Chinese are also very concerned field. During this period the woman is not decoction of dried longan and red dates and on taking herbs such as ginseng soup, for, Chinese does not perform the barut, postnatal practices among the Indians are After delivery the woman or new mother has been boiled with herbs such as neem affolia) and lemuni Vitex Trifolia var nese, the Indian also observed some food sic factor in the postnatal care that was of the 'wind' and cold which can caused the woman which would hinder recovery.	2018

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Maternal Mortality in Malaysia: Progress Made Towards Millennium Development Goal (MDG) 5 – An Analysis of Published Data.	Achanna, Krishnaswamy, Ponnampalam, & Bondhu.	Major causes of maternal deaths were identified in the to devise key indicators and protocols and to address emergency obstetric services, early recognition and n cases is pivotal. Additional public health activities nutritional programmes, family planning services, education and empowerment, access to housing, have health and reproductive services.	obstetric calamities. The provision of nanagement or referral of complicated s, such as immunization campaigns, alleviation of poverty, provision of	18
Perception on Postpartum Dietary Practices Among Malay Women in Kuantan, Pahang	Siti Munirah Abdul Basir, Muhammad Safwan Abdul Rahman, Wan Azdie Mohd Abu Bakar, & Nor Azwani Mohd Shukri	It was found that 100% of respondents mentioned postpartum practices after childbirth with most of the 44 days. Flavored rice, roti canai and various types of postpartum period due to their oily/fatty property. T were also avoided due to their old property. Moreove fish causing itchiness for seafood. Milk and dairy prespondents diet. Out of 80, 43 (53.8%) respondent believed to give negative effect on wound healing. sugarcane drink were avoided due to their cold and 'st tests of all food items show that there is no different each food between women delivered via normal concluded that postpartum food taboo beliefs are sextensive food prohibition and restriction causes limothers nutritional intake. Thus, a more balanced dimothers during postpartum period to ensure adequate acceptable.	em (63.0%) chose to confine for up to moodle were generally avoided during tubers, and most fruits and vegetables er, the famous reason for exclusion of products were included in majority of the avoided soy sauce because it was other than that, iced drink, tea and harp' properties. In addition, statistical ce in terms of level of acceptance for delivery or caesarean section. It is still prevalent among Malay women. mited food choices which may affect et should be recommended for Malay	18
The "irrational" taboos and "irrelevant" traditions related to postpartum women's health and well- being	Mun, Faiz Daud, Sivaratnam, & Diana Safraa Selimin	It was found that in Malaysia, certain postpartum to behavioural and physical restrictions were conducted being of mother and baby, and to improve the healing found to be irrelevant, whilst others had beneficial heap practice of certain taboos and traditions during the poth advantages and disadvantages. A rational appragainst maternal safety and health. Thus, healthcare poof taboos and traditions in the postpartum care of page 1.	with the aim of maintaining the well- g process. Some of the practices were alth impacts. Based on this review, the postpartum period was found to have each is needed to weigh the practice ersonnel should be sensitive to the role	19

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		taboos should be monitored for safe practice, along with a need for community- based education to avoid any unwanted issues as a result of its practice.		
The Fading Birth Practice : Urban Malay Mothers in Malaysia Negotiating Confinement Practice	Sh Fatimah AlZahra Syed Hussien	This traditional cultural belief imposed certain childrearing and parenting ideals; extended familial support is present and expected, childrearing was shared with other familial members, mothering was learned and taught within this period in stages, and there was a distinction between female and male realms within the family. Thefamilies that practised berpantangenjoyed more familial support in the first few weeks which was intertwined with their beliefs in confinement. Postpartum mothers are considered to be in a weak and vulnerable state, they are expected to be relieved of any household duties andmust eat a particular diet for recovery. Typically, first-time mothers will return to their maternal home or have their mothers stay with them. The confinement period was governed by clear female and male spheres andfocused on the maternal figures; the new mother, the grandmother, and the confinement lady or female masseuse.		2019
Traditional Practices during Postpartum Period among Women in Ampang, Malaysia.	Hla Myint, Rao, Mie Cho Win, & Rajan.	Results showed 232 out of 235 women (98.7%) praduring postpartum period. Among variety of methods the most common method practised by three races (Mawith herbs (67.2%) and cooking with herbs (59.1%) w traditional methods respectively. In addition, (29.8% increase breast milk production. Most of the women use In conclusion, although there are many advanced mode in well facilitated urban areas, most of the women practices according to their races and cultures.	used, traditional massage (68.9%) is day, Indian and Chinese). Showering ere the second and third line popular ) of women used some practices to ed more than one traditional methods. ern technologies in medical field and	2019
Attitude Towards Traditional, Complementary and Alternative Medicines (T&Cam) and Its Use Among Women During Antenatal and Postnatal Period	Kumar Mohanty, Fatimah binti Muhammad Nor, Noor Faaezah binti Mohd Sadek, Ohn Mar, & Author Basanta Kumar Mohanty.	103 respondents, 66.02% were antenatal and 33.98% vage of 29.72 years. Prevalence of T&CAM among the use was not prevalent among pregnant or breast feed significant association of use of T&CAM with sociod (95.15%) of the respondents demonstrated good attimethod (restraining some food) was the most commethods" were used by 30.10% of the respondents, f (24.27%), herbal bath (21.36%), herbal drinks (9.71%)	e participants was 25.24%. T&CAM ing mothers (p<0.05). There was no demographic variables. The majority tude towards T&CAM use. Dietary monly practiced method. "The rest collowed by massage and hot stones	2020

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## Discussion

This review concludes literature on the relationship between the previous studies regarding the level of media literacy and health that influences women particularly when making decisions on their postpartum practices after childbirth during the postpartum period. In the overall studies there were multiple measures and unique definitions of health and media literacy. There are 41 articles from 2015 to 2020 that are divided into two themes of health literacy and postpartum practices in order to find out the level of media literacy and health the influences women particularly when making decisions on their postpartum practices after childbirth during the postpartum period. Results of suggesting media and health literacy in Malaysia were prominent as majority agrees that it is in a pristine understanding while only a few other studies that suggested otherwise. Additionally, literacy of both media and health are associated with education level and income.

The relationship between cultural, demographic and race were inconsistent across studies in terms of postpartum practices and there are few studies that compares the postpartum practices differences between race, ethnicity, interstate and West Malaysia and East Malaysia. However, the differences of postpartum practices do differ and evolve within the timeframe of 2015 to 2020 (e.g., dietary, nutrition, taboos, and restrictions) as health and media literacy has influenced the traditional beliefs of postpartum care. Despite the perceived differences in intra-ethnic postpartum practices, most Malaysian mothers share similarities in their postpartum regimens and practices in terms of beliefs and adherence to food taboos, use of traditional postpartum massage and traditional herbs, and acknowledgment of the role of older female family members in postpartum care (Fadzil, Shamsuddin, & Puteh, 2016). In addition, the role of education level, demographic (rural vs suburban) and income has contributed to this change.

The relationship between media literacy influencing health and postpartum practices were consistent as majority of studies agrees that mass media influence mother's pre and postpartum period regardless demography, income and educational level. A majority of mothers were exposed to mass media, radio was accessible to most of the participants followed by television and mothers exposed to mass media were more likely to attending antenatal visits (Acharya, Khanal, Singh, Adhikari, & Gautam, 2015). To add, the relationship between mothers using mass media information for postpartum practices are also consistent as they take into consideration of the information given even though majority mothers are also influenced by elders of community, traditions and their mothers before them. This traditional cultural belief imposed certain childrearing and parenting ideals; extended familial support is present and expected, childrearing was shared with other familial members, mothering was learned and taught within this period in stages, and there was a distinction between female and male realms within the family (Syed Hussein, 2019).

Additional public health activities, such as immunization campaigns, nutritional programmes, family planning services, alleviation of poverty, provision of education and empowerment, access to housing, have made significant impact on maternal health and reproductive services (Achanna, Krishnaswamy, Ponnampalam, & Bondhu, 2018). The slight differences observed in the concept and practice between the three races is due to the different culture inherited from the elderly (Yusoff, Amat, Naim, & Othman,

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2018). It appears that regardless of whether they live in the most traditional or the least traditional locations, the Temiar lineage and societal norms in the form of taboos during the female reproductive cycle are handed down to the new generation by their elders (Syed Abdullah, Nilan, & Germov, 2016).

The decision of practicing postpartum care after childbirth during postpartum period between all races in Malaysia regardless income, demographic and education level was consistent. The minimal duration of postpartum was set to be 44 to 100 days. It was found that 100% of respondents mentioned that they do observe the traditional postpartum practices after childbirth with most of them (63.0%) chose to confine for up to 44 days (Basir, 2018). The duration of postpartum care will differ amongst individuals however the decision of practicing postpartum care post-delivery is the same. The slight differences observed in the concept and practice between the three races is due to the different culture inherited from the elderly (Yusoff et al., 2018). Results showed 232 out of 235 women (98.7%) practiced different traditional methods during postpartum period. Among variety of methods used, traditional massage (68.9%) is the most common method practised by three races (Malay, Indian and Chinese). Showering with herbs (67.2%) and cooking with herbs (59.1%) were the second and third line popular traditional methods respectively. In addition, (29.8%) of women used some practices to increase breast milk production. Most of the women used more than one traditional methods. In conclusion, although there are many advanced modern technologies in medical field and in well facilitated urban areas, most of the women are still using their own traditional practices according to their races and cultures (Hla Myint, Rao, Mie, & Rajan, 2019).

In overall studies, there are several models and theories that are interrelated with the current study and may be used to describe and support the findings. Among the theories and models that correlates with media literacy is the Domestication theory (Domestication-Communication Theory, n.d.) and Technology Acceptance Model (Charness & Boot, 2016). While few other theory and model that may help is the Social Support theory (Kort-Butler, 2017) and Health Belief model (Health Behavior and Health Education, 2019). However, the conceptual model that fits the study is the Model of Health Literacy (Sorenson et al., 2015) and best suggested using the European health literacy survey (HLS-EU) questionnaire in data collection. This method will allow to identify the rate of health literacy that influences postpartum practices for mothers in postpartum period.

In the overall literature, most studies of media and health literacy involving postpartum practices was done separately. There are several studies that combines the literacy of media and health and connects the contribution of demographic into the study but there is no study that suggested the three combination of media and health literacy in influencing postpartum practices. Thus, to measure the development of mass media or media literacy in influencing mothers' postpartum practices in postpartum period needs critical understanding. Therefore, both health and media literacy must have to distinguish indicators that surpass a certain level of literate-ness of both health and media.

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#### **Conclusion**

To conclude, the past six years of research have conveyed that women do rely on internet, magazine, and radio for nutrition, dietary knowledge, and postpartum practices while simultaneously practicing old beliefs carried by the elderly of the family. Mothers, grandmothers, midwives, traditional birth attendants, and 'bidan' are relied on as emotional supporter for mothers while giving advice either traditional or modern towards mothers in confinement period. Notably, social media and the general media play a significant role in providing information for mothers or women in general in regard to health communication retrieval and women are in no doubt have high media and health literacy when it comes to antenatal and postnatal. Based on comparison researchers, women residing in rural areas tend to have low media and health literacy compared to women residing in urban areas, this applies to higher educated women and occupation. Government programmes such as campaigns and education programmes are proven to curb the health literacy rate. In terms of social media as social support and being a source of the health communication platform, it is undeniable true all forms of media provide a generous amount of support through giving real-life experience and sharing. However, further research must be done to identify the effectiveness of traditional practices for postpartum scientifically, and social media as a form of social support help as the mixed results may be unaccounted.

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