Family as a health promotion setting: A scoping review of conceptual models of the health-promoting family

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Abstract

Background

The family is a key setting for health promotion. Contemporary health promoting family models can establish scaffolds for shaping health behaviors and can be useful tools for education and health promotion.

Objectives

The objective of this scoping review is to provide details as to how conceptual and theoretical models of the health promoting potential of the family are being used in health promotion contexts.

Design

Guided by PRISMA ScR guidelines, we used a three-step search strategy to find relevant papers. This included key-word searching electronic databases (Medline, PSycINFO, Embase, and CINAHL), searching the reference lists of included studies, and intentionally searching for grey literature (in textbooks, dissertations, thesis manuscripts and reports.)

Results

After applying inclusion and exclusion criteria, the overall search generated 113 included manuscripts/chapters with 118 unique models. Through our analysis of these models, three main themes were apparent: 1) ecological factors are central components to most models or conceptual frameworks; 2) models were attentive to cultural and other diversities, allowing room for a wide range of differences across family types, and for different and ever-expanding social norms and roles; and 3) the role of the child as a passive recipient of their health journey rather than as an active agent in promoting their own family health was highlighted as an important gap in many of the identified models.

Conclusions

This review contributes a synthesis of contemporary literature in this area and supports the priority of ecological frameworks and diversity of family contexts. It encourages researchers, practitioners and family stakeholders to recognize the value of the child as an active agent in shaping the health promoting potential of their family context.

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Introduction

Understanding the importance of the family as a setting for health promotion

The objective of this scoping review is to provide details as to how conceptual and theoretical models of the health promoting potential of the family are being used in health promotion contexts. This knowledge is important because the family is a key setting for health promotion. Throughout infancy and childhood, we live among others who can provide for our basic needs, guide and nurture us as individuals, and launch us on health trajectories that follow us throughout the life course. Socioecological models place individuals within families and depict family settings as the most intimate context of health and social influence [1, 2].

Why are models of "health promoting settings" important?

Health promotion practitioners often leverage the structure that exists in the physical and social environments of the settings in which everyday life unfolds in order to establish scaffolds for programs and services. The health promoting school, for example, has developed as a well-articulated context where healthy policy, health education, health environmental features and partnerships can be established [3–5]. Similarly, other health promoting environments have been described in detail, including health promoting outdoor environments [6], health promoting workspaces [7], health promoting hospitals [8] and health promoting municipalities [9].

The health promoting family-a conceptual framework

In 2004, Christensen added to this dialogue by proposing a conceptual model of the "health promoting family" [10]. In doing so, she drew attention to the scarcity of research related to how families engage in promoting their health in the context of their everyday lives and argued for the importance of increased understanding about how the family can play a part in promoting both the health of children and the children's' capacities as health-promoting actors. Along with environmental factors such as income, education and resources, she suggested an emphasis on the family's ecocultural pathway (family values and goals) and family practices (including practices around food, physical activity, risk behaviors and meaningful social connections) for promoting health. In addition to adult or parental figures in families, core to Christensen's model is the importance of the child as a "health promoting actor" who has opportunity to participate in, contribute to, and manage their own health and well-being [10].

As we engaged with Christensen's model [10], we were struck by how underdeveloped conceptual and/or theoretical frameworks of health promoting families appeared to be in comparison to frameworks that have been developed to describe and guide other settings. Indeed, while the family is repeatedly noted as an essential and universally critical context for health promotion, the development of conceptual modeling for a "health promoting family" is limited. We also noted how limited any attempts in the literature have been to clearly define what might constitute a "health promoting family." To date, such a definition does not appear to exist. There are numerous likely reasons for these gaps, including that family, parenting and child development are intimate and culturally bound activities which vary significantly across homes and settings and for which authority remains largely in the personal versus the public, state or organizational sphere. Further, families are complex and diverse. Any attempt to delineate what might characterize a family as a health promoting context must be broad and flexible enough to recognize the complexities of real people's lives. Indeed, some research has moved from setting up a false normal of what a family should look like, to a focus on what families do, and how they operate as a unit [11–14].

Prompted by our examination of Christensen's model, we conducted a scoping review with the objective of identifying, analyzing and interpreting conceptual and theoretical frameworks or models that focus on the health promoting potential of the family context. A scoping review was appropriate in that it enabled us to conduct a broad, interdisciplinary survey of previous research with the purpose of identifying key characteristics related to the concept of the health promoting family [15]. Our hope was that we would be able to use the findings from this review to inform research on family health by building on current and high-quality evidence. Further, we anticipated that this synthesis of knowledge would be valuable to practitioners who are involved in health promotion and whose work involves supporting families in their own contexts. Finally, through this review, we hoped to identify strengths and gaps in the ways that health promoting families are modelled in the academic literature and inform future initiatives at such modelling.

Methodology

Overview

The approach to this scoping review was adapted from the PRISMA [16] guidelines for scoping reviews. Guidance in formulating our search strategy was sought from a Senior Health Sciences Librarian at the Bracken Library at Queen's University, Kingston, Ontario.

A three-step search strategy was used to find relevant papers in order to contribute to answering the question: How is the health promoting potential of the family portrayed in conceptual and theoretical models in academic and grey literature? In step one, studies were identified by key-word searching electronic databases: Medline (1996–2021); PsycINFO (1967–2021); Embase (1996–2021); and CINAHL (1981–2021). For example, we used the following search strategy in Ovid MEDLINE(R) without revisions (<1996 to Present-June, week 2, 2015) and (June week 2, 2015 –Present-September, 2020) was: ((family [MeSH terms] OR family characteristics [MeSH terms] OR family relations [MeSH terms] OR parent-child relations [MeSH terms] OR nuclear family [MeSH terms]) OR family health [MeSH terms]) AND ((models, theoretical [MeSH terms] OR models, educational [MeSH terms]) OR conceptual framework\$.[abstracts and titles] OR conceptual model\$.[abstracts and titles] OR theoretical framework\$. [abstracts and titles] OR theoretical model\$.[abstracts and titles]) AND (Health Behaviour [MeSH terms] OR Health Promotion [MeSH terms] OR Health Knowledge, Attitudes, Practice [MeSH terms] OR health status [MeSH terms] OR Nutritional Status [MeSH terms] OR exp. obesity [explode, MeSH terms] OR "Social Determinants of Health" [MeSH Terms] OR exp. social environment [explode, MeSH terms] OR support\$.[abstracts and titles] OR strong famil\$.[abstracts and titles]). Fig 1 describes the search string that was adapted for each database.

family/ or family characteristics/ or family relations/ or parent-child relations/ or nuclear family/ Family Health/ 1 or 2 models, theoretical/ or models, educational/ conceptual framework\$.ab.ti. conceptual model\$.ab,ti. theoretical framework\$.ab.ti. theoretical model\$.ab,ti. Health Behavior/ 10 Health Promotion/ Health Knowledge, Attitudes, Practice/ health status/ Nutritional Status/ 13 14 exp Obesity/ "Social Determinants of Health"/ 16 exp social environment/ 17 support\$.ab.ti. 18 strong famil\$.ab,ti. 9 or 10 or 11 or 12 or 13 or 14 or 15 or 16 or 17 or 18 19 4 or 5 or 6 or 7 or 8 20 3 and 19 and 20 21 limit 21 to English language

Fig 1. Search string. https://doi.org/10.1371/journal.pone.0249707.q001

Step two involved a hand search of the archives of the Journal of Marriage and Family, a search of the reference lists of included studies, and a thorough backward and forward search using Google Scholar and Web of Science for Christensen's key article [10], each of which enabled us to identify additional studies. In step three, we conducted an intentional search for grey literature that may not have been found in the scientific databases that we searched in steps one and two. This step generated an additional set of models from textbooks, dissertations, thesis manuscripts, literature reviews, academic journals and reports.

English language documents that included an illustrated model related to the concept of the health-promoting family were included. Sources were excluded if they did not mention families that included adult(s) and child(ren) or if the outcomes or exposures of interest were not related to individual or family health. No additional restrictions were set on study date, study design, types of families, types of exposures or outcomes. After duplicates were removed, titles were reviewed by a research assistant to exclude articles that obviously did not meet inclusion criteria. All abstracts and then full text articles were reviewed by VM and either CD (studies up until 2017) or KP (studies from 2017 to 2020). A data charting spreadsheet was jointly developed by VM, CM and KP to determine which models to include. Three researchers (VM,CM, and later KP) independently charted the data, discussed results and updated the spreadsheet through an iterative process as inclusion and exclusion decisions were made. This project spanned multiple years. The first stage involved a search for models between the earliest date possible for each database up to June (week 2. 2015) that took place between June and August 2015. The second stage involved a search for models between June (week 2. 2015) and September, 2020. A research assistant (JB) was involved with every aspect of this scoping review until 2017. A postdoctoral fellow (KP) then provided extensive input in all aspects of this literature scan throughout 2020. To synthesize our results, we initially grouped the models by the disciplines from which they emerged and the family characteristics that were identified. As we engaged in an iterative and inductive process of analysis and critical discussion between researchers, we identified further ways of synthesizing the models. This included synthesizing the ecological and environmental factors that were identified as important; the health promoting features of the family; and the role of the child as an active or passive agent in promoting family health.

Results

Study selection

After applying the inclusion and exclusion criteria, the overall search from all three steps generated 113 included manuscripts/chapters with 118 unique models relevant to the "health promoting family". The flow diagram depicted in <u>Fig 2</u> outlines the steps that we used to arrive at the included studies and unique models in our search results.

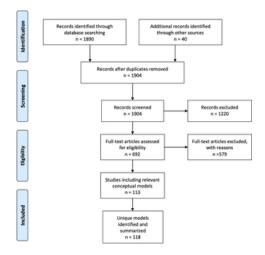


Fig 2. Flow diagram of included studies. https://doi.org/10.1371/journal.pone.0249707.g002

Summary table of identified models

Table 1 provides a summary of the 118 distinct models that our review yielded. It includes: (1) the name of the model (including variations on the model that are included in the same source); (2) a short description of each model; (3) a description of the child's role in shaping health experiences and trajectories, which is described in more detail in Table 6; and (4) a reference for each model. Please note that many of the authors displayed their models in different ways in order to highlight different analyses. As long as the overarching model in any given paper was the same, it was counted only one time even though it may be have been reflected by several distinct figures.



13	Figure 2. The ENERGY: project specific ENRG (Exricontented Research for weight Gain prevention) framework.	adapt to stoom. This model discusses on how aspects of the family and whost extrements can influence range balance choices fiderary, physical actions, patherary, deeply for weight gain prevention. Aspects of the family estimates in landar personal rains, for the family estimates in landar personal rains, for the family estimates and the personal rains, for the family estimates the family estimates of the school ending egit, and personal family of the high or all miscality found reprints, which for pulsy and articity to the family of the high or all miscality found reprints, which for pulsy and polysical activity.	Active	Brug et al., 2000 [10].
16	Fig 3 Conceptual model of social determinants of health and recide/white disperties in TEVM, Output with permission form: Wilder RJ et al. 2002; Endoor Disord. 2014;1442, with permission from Buchfold Central)	This model illustrates how social determinants of health including low family income, low levels of permit advantaged interment, and higher they are profit in indirectly contribute to ensur Type 2 displemes and consequent advance prophiscocial endocument. In against that these social determinants can influence health behaviors, bealth Lowedolgs, conjugate obtain these and determinants can influence health behaviors, bealth	Active	Butler, 2017 [30].
17	Figure 1. Genceptual Model 1 with caregions adolescent discrepancies. Figure 2 Generoptual Model 2 with adolescent and caregion acculturation main effects.	Booths of these conceptual models work to examine how acculturation ordinale ratefulse impact adolescent builth risk behavious and depressive sequences [1800;180] in mediated behavious and depressive sequences [1800;180] in mediated Conceptual Middel Lexaminer discrepancies between carepione adolescent acculturation and Genoeptual Model 2 causiness the individual effects of carepiver and adolescent acculturation components.	Active	Cane et al., 2016 [12].
18	Figure 3.5. Proposed integrated conceptual model for the understanding pathways that influence child development and the impact of child health on the family.	accumumation components. This model uses a life course perspective to describe the pathways that influence child development, and the impact of child health on the family. In accomplises that different factors affect the child and family at different stages of life.	Passive	Cheng. 2015 [30].
19	Figure 3. Bruhn and Purcel model of health promotion (1982).	affect the child and family at different stages of life. This model details how family influence and adolescent development characteristics influence adelescent health behavior and backs states. Components of family influence on adolescent health behaviors include reinforcement.	Active	Chin, 2005 [11].
30	Figure 3. Conceptual Statements hased on the theory of framed behavior: Pactors that influence children's beauting consumption behavior.	This model details how family influence and adultivents development classes sitted influence adultivents reduchts development classes sitted influence adultivent tracking development classes sitted in the control of	Active/ punite	Chey & Isong, 2018 [30].
	Figure 1. Model of the health-promoting family.	external influences on the family (community and sociatal), and well as preconsess internal to the family (family exocultural pullways, practice/ family bealth bistory, bealth practices) shape child health status. The child is viewed as a bealth- premoting access, and the degree to which children act its ways so as to premote (or demote) their own health is considered	Active	Christemen, 2004 [10].
23	Figure 3.5 mmmary of themes and subthences identified in qualitative interviews. Figure 2.1. Child gurent reciprocal influences model.	This motor insurement have partners amounts for plattice species as a playmoid action) influences provision of PA. Set their children with a visual importance. It registers that while children with the partners of the partners of the forest children with PA. Set their children with the partners of the partners of the forest children with PA. In the partners of the	Passive	Celumna et al., 2019 [36]. Cevial., 1998 [17].
24	Figure 5.1. The model of concept of well being in older Taiwatene.	This model proposes family, individual, and interprenental factors that influence health premotes pleasures. This two part model ones for circle to represent observes and beginners in the course of order to represent observes the force that the course of order though a magnetic that fore bases of well-being limited supports, consistent or composed, competitions of family obligations, steme of disquipt and self-reliance) are essential to comprehensive well-being of self-and family.	Panire	Dai, 1995 [31].
25	Figure 5.1. A graphical depiction of the impact of family processes on children's emotional insecurity in the family and their trajectories of adjustment within the reformulated emotional over the con-	This model describes how parenting practices and conflict impact child emotion, development and adjustment, and consequently influence child health overall.	Panine	Davies, Sturge-Apple, & Martin, 2013 [19].
26	Figure 5.1. A graphical depiction of the impact of family processes on children's entotimal insecurity in the family and their topocchion of adjustment within the reformulated entotimal security theory. Figure 2. The revised family evological models, helded text and beans indicate new components and constructs that were not quest of the original model.	This model is a nevised version of the Family Ecological Model. It illustrates a causal sequence whereby family evoluge, family social/enorsional content, and purenting practices influence family health encounts. The focus of this model is not family and child develop prevention. Both family evolutions and family-child health encounts are detailed.	Active	Davison, Jurkowski, & Eawson, 2015 [40].
27	Figure 1. Structural model Inking mothers' gendered roles and lidestigie to adolescent depression. Figure 2 (VEM modelling):	Figure 1 demonstrates how congruint incongruint between the mother's actual role and the mother's acceptance of ideologies around traditional gender roles can relate to adolescent depression. Figure 2 toes the same variables as Figure 1, but depicts the unstandardized personner relimines and standard errors for all significant paths. Insignificant	Passive	De Goder & Zito, 2013 [10].
28	Fig. 1. Social-ecological model applied to the Kanyakla Nutrition Program (Gregom et al., 2001; Stokolo, 1992).	on the control of the	Panine	DeLorme et al., 2018 [47].
29	Fig. 2. Conceptual model of the Kanyakla nutrition program.	This model represents how the intervestion actions is a natrition program and the effects of the community balls workers engagement influence community effects and households shift outcomes, including maternal and child natrition behavior, boushold food socurity, improved maternal and child materials.	Active! punite	DeLorme et al., 2018. [40].
30	Figure 1-1. Social construction of family health.	This conceptual model illustrates contextual (internal [in the household] and external [social, historical, political[i), structural (family health routines and health behaviors) and functional (individual and family processes) aspects of the conference time of family health.	Panine	Denham, 2009 [40].
31	Figure 9-1. Social construction of family health-definitions and practices.	This model illustrates how family environment and relationships influence family proceptions of health and engagement in partners of health behavior inconstate [health promoting] and non-normative [health depletings]. In domenturbs have limed appeletings he domenturbs have limed appeletings he behaviors that influence our health doctoints.	Panine	Denham, 2005 [47].
32	Figure 13-1. Factors affecting the modification of the family health constructs. Figure. Theoretical model adopted in the study.	This model describes a number of categories that influence and modify the family health construction, including porental beliefs and values, temporal patterns, ecological context, accommodation of unpredictable events, relational interactions, and knowledge exposure.	Passive	Denham, 2000 [40]. dePaula et al., 2015 [44].
34	Figure 11.1. Family formation is low income populations.	This model coefficies the influence that grouder, SES, home environment and relayector aspects refund to present processing the control flexible and deliberts was precyptions about will be real health has on detail cares in school delibers. This model details induced and demonstrate care of distillations and demonstrates and control with beings, with a faces on family devil factors. Cladd well-beings in influenced by presenting characteristics and Delazies as well as family relationships and functioning. The model also considered the impact detail influence (noch as a characteristic conference in conference in conference in conference in conference in conference in temporal detail influence (noch as a characteristic conference in temporal detail influence (noch as a characteristic conference in conferen	Panire Panire	Dison et al., 2000 [10].
35	Fig. 1. The relationship between purent-child, stimulation and destal caries: a life course approach.	policy, and economical have on the family and passess, policy, and economical have on the family and passes. This model proposes that panent behavior is related to social exposure in the shift is first years of fifth, increasing the risk of chronic diseases that dental earlier. Permit disease better chronic through the dental earlier present diseases to determinants of health can engatively informative risk of beath estications in and the can reagainly informative risk of beath estications in	Panine	don Sunton Conta et al., 2019 [ini].
36	Figure 1. Conceptual model of influences on adherence to pacifistic ashina treatment.	and the can negatively influence risk of health-outcomes in the child. This comprehensive model describes the role of family functioning and child and parent psychological factors in	Passive	Drotar, & Bonner, 2009 [47].
37	Figure 1. Final structural equation model relating latent constructs of neglect to children's functioning.	afference to puediarie, asthma toutiment. This model is used to quantitatively assess relationships between child functioning immoused by externalising and internalising behavior and social problems) and rurious family constructs. It demonstrates that parental support, affection, and family confiles all predicted children's later	Panine	Dubowitz et al., 2005 [10].
38	Figure 1. Schematic illustration of the theoretical model.	This figure models plausible pathways between community and family variables and individual determinants of childhood destal caries illustrated in the Foher-Owens	Panire	Designate et al., 2014 [40].
29	Figure 1. Theoretical model of clases and child health.	cinterpora moon. This model applicate classe in the bousehold and family system is a determinant of child bothle. Classe in the years of the control of the	Passive	Dush, Schmeer, & Taylor, 2015 [30].
40	Figure 1. Geoceptud model; Figure 2. Model for female and male younger oblings (SEAS), Figure 5. Model for female younger oblings (SEAS).	agents of medium' passetting and specific streams within the family duepe entironships between posterial sillings. In ter- tilized the second of the second second second second terms, there indistinguish influence adolescents' deng use, high risk areas behaviors and associated outsiness (i.e., programs and sexually transmitted disease). Figure 2-demonstrates that critical power, low warranti-footnessed served as mediums between the risk helpites of stronger fallings. Model between the risk helpitesis of synonger fallings. Model	Passive	East & Khoo, 2005 [31].
41	Figure 2-1. Conceptud framework for reviewing 'obsengenic landscaper' in urban children's geographies.	estimates no gras once are consent in Figure 9. This model work to literate the factors the fillmence independent endone play in without children's prographic locations. This model work and forperents the children's prographic locations. This model opportunit and socia-reconnect, characteristics of dislaters and their home estimates that gives a risk in the participation of disense outdoor activities for other children. Activities can be influenced and says by sessenable; (i), employmentand, home, if transportation is newled, plur space, urbus design and safety.	Active/ punite	Engles, 2012 [31].
42	Fig. 1. Thematic analysis.	This model represents children's food related health literacy practices. It describes how children access health information and sources of information related to food and healthiness. This model also describes how children understand health information and give meaning to healthy and unbealthy	Active	Fairbrother et al., 2016 [30].
43	Figure 2. Modified model predicting family adaptation.	Proxyments on the monoments. This model shows linkages between stores (objective and perceived), family resources, and coping strategies and hose there influence family adoptations to bring in a war some. Family resources supported family adoptation, and coping.	Passing	Farbood, 1999 [14].
45	Figure 1.2. Pathways of family processes: Figure 1.3. Left process of the family system.	proceptions of the information of some infegritier and processing, in a second of the contraction of the con	Passing	Priodemann, 1995 [34].
	Figure 1. The PEN-5 cultural model.	This model point that cultural lactors influence Adrican- American mothers' and their desighters' HFV sectors acceptance. In the PFN: 3 callands model culture (cultural identity) is a key facilitating or determing factor in preventive bodh behaviors. Relationships and operationies including proxyptions, enablem and nurturers can influence performing a both behavior.	Passine	Galbraith-Gyan et al., 2019 [57].
c	Figure 1. Familial approach to the treatment of childhood obesity conceptual model.	a health between. This model outlines how purents can influence the attainment of healthy weight in children by modeling a health liberile, changing the home environment, and by promoting health habits in children. Through purental regatives and behavious change (increased autition & health allow and increased purenting shifts) and reviewmental change (healthy exceivance as it family home), purents can help their evironments in family home), purents can help their children to artists a healthy weight status.	Passine	Golan ft Writman, 2000 [10].

	rigare 1. Adapted from the transactional record and crying (TSC) model of adjustment to chronic illness (Thompson et al. 1994) for siblings.	this most represent that time two ways an exposure that shifting fillows will be a function of relationships between the workput, family, and shifting adaptation present. Family variables such as controlled limit, bearing functioning, that varieties are controlled limit, bearing functioning, that varieties are controlled limit, the relation of the state of chaptation and well-being on the vasisfied lives and dis- mediate the association between illness and adaptation.	Active	Lone of M., 2000 [77].
49	Fig. I. FFESH theoretical model.	metator the association between titude and adoptation. This model distances the intervention components that influence family pericepation in physical activity (PA). The PRSSS intervention components are based on PESSSA against an experiment of the pericepation in physical activity (PA). The PRSSS intervention to increase PA in families where influence components with a surface PA in families where influence changes such public places with a families where the influence changes are designed to the pericepation of the period pericepation of the pericepation of the period per	Active	Googliane et al., 2009a [60].
90	Figure 3. FRESH theoretical model. FRESH, Families Reporting Every Step to Health.	This model illustrates a FRESH logic model that details the intervention components and the family and individual-lovel mediators that influence endocument of physical activity and across time behavior and ultimately, health and wellbeing.	Active/ penire	Gusgliano et al., 2019b [61].
54	Fig.1 A conceptual model of influence of family dynamics and deep-health behaviors on bypertension risk.	This model disortates the relationship between family dynamics (indisorable) quality, conflict, shared health behaviors, divey health behaviors (sleep-densition, timing and quality) and loperinsons risk in children and youth, framily dynamics are smeclared with hypothesis risk and family dynamics combined with youth drep health behaviors are reaccioned with hypothesis risk in a children and family dynamics combined with youth drep health behaviors are reaccioned with homotopoies mid in children and month.	Passing	Gunn & Eberhardt, 2019 [62].
52	Figure I.	into mood commonisties for restanting powers processor prolonged purestal grief and current functioning as they relate to child perceptions of interparental cueffici (CPSC). Proceived prolonged pacental grief is a predictor of emotional socurity prescoupation which in turn, is a predictor of current	Panine	Hardt et al., 2019 [61].
5.5	Figure 1. Conceptual model for produtures of children's development.	This model shows how child development is influenced by child, powerful, and family factors. Individual child and passes characteristics influence family climate and relationships and child will regulatory process. These relationships family process and child train-consequently influence child.	Active	Hauser Cram et al., 2000 [64].
54	Figure 2. Conceptual model for predictors of purent well-being.	This concoprate and research that parent well-being is influenced by child and guerent related stress. Both parent influenced by child and guerent related stress. Both parent influenced and child (aga, wax, daudeliny) individual characteristics influence family climate and relationships within the family, in addition to child skills. All of these consequently affect parent well-being.	Passive	Hauser-Cham et al., 2000 [sst].
55	Figure 1. Conceptual Model of the Influence of Macro- and Family-Level Sociocultural Contentual Factors in Youth, and Pubertal Timing on Women's Lifetime Educational Achievement.	This conceptual model series to examine both life events and sociocultural contentual factors in youth that have an impact on lifetime obsertional achievement, life events and sociocultural contentual factors occur at the macro and family	Passing	Hemdrick et al., 2016 [65].
36	Figure 1. Obesity resistance model: a summary of the interaction of female contromment discress influencing children's weight status and behaviors.	This model quantitatively usomarians the interactions between powers, family and child factors that influence child weight status and related behaviors. Pervert health behaviors recipitation and related behaviors, the revert health behaviors practices in addition to family environment (from properties) of the properties and the properties of the properties of the physical activity. Collid screen time, service, ISM, and frost and regardels studies as influenced by parent behavior and family environment.	Active/ Passing	Hendrie, Coveney & Cox, 2012 [101].
57	Figure 1. Relationship-based feeding framework.	taminy envoluntess. If his model provides a framework detailing the child- caregior relationship and the biopsychosocial and contential factors that affect the feeding relationship, and it presentes active engagement on the part of the child and casegiors within the context of family relationships, community support, and resources.	Active	Henton, 2018 [67].
58	Figure 1. Model illustrating the mediation paths for the combined sample (top panel). ASO-sparent reported below severage IQ (middle panel), and ASO-sparent expected severage or above TQ (bottom pased) between ASO avenity, parel solvent domantic expectations for that child, and number of sex-related opinion space covered by parent.	This model compares the parents of pouth with ASD a purest superied below average IQ and average to above severage IQ in nelation to postent provision of serundity and relationship education via ASD symptom severity. Parental somantic expectations are influenced by above or below severage IQ of south with ASD.	Panire	Holmes et al., 2016 [68].
	of sex-related topics control by parent. Figure 1. Conceptual framework of life events and cultural processes that shape material capabilities and influence child matrition and legistre cure behaviors.	This model illustrates how life events influence maternal capabilities which then influence a mother's capabilities. This impacts child natrition and legiene. Caliural events and processes shape maternal capabilities, which can negatively impact seeing for children.	Passine Active!	Sches et al., 2017 [60]. Janin et al., 2018 [70].
	Fig. 1. Social evological model applied to-child health (Karak, 2006). Fig. 2. Coding two, based on the social evological model applied to child health by Kanak (2006).	procures shape amend capellines, which are segmely negotive rising the children between the analysis of the con- traction of the children between the design of the tree can be always the contraction of the children of seal of the publish diseases. Then facilities not seal of the publish diseases. Then facilities not seal of the publish diseases. The facilities of the children of seal of the children of the children of the children of the children of the stillage, facilities, the children of the children of the publish and the children of the children of the children of the children of the children of the children of the children of the children of the children of the children of the children of the theory of the children of the children of the children of the treatment of the children of the children of the children of the vision of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of the children of the treatment of the children of the children of	pusitre	
60	Figure 1. Empirical model that summaries the study's findings, have do not additionate violen and the studyer of the studyer of the studyer of the researchers' interpretation of the empirical data through self-determination theory (SDT).	autonomy and competence which facilitates engagement in	Active	Jonason et al., 2017 [718-
61	Figure 1. "Influence of child, family, and community on oral health outcomes of children" (Fisher-Owen et al., 2007).	physical activities. This multi-treal model outlines fire domains that influence child out health outcomes. It includes community level, family level and child-level influences, which are bound by time and environment, and shape children's out health produced families and the produced families and the produced families and the produced families and the physical families and the p	Active! pussive	Kalif, 2017 [72].
62	Figure 1. Proposed mediation model; Figure 2. Direct model without mediation; Figure 3. Full mediation model.	and feeding practices influence child-eating behaviors in	Active! Passing	Kiefner-Burmeister et al., 2014 [77].
0	Figure 1. A waifying conceptual model for early childhood carine (ILCC) showing the connections between social, environmental, molecula, and child factors.	This model illustrates how a number of envisormmental, family chopscisily maternal; and child factors influence early childhood cories. Maternal characteristics are influenced by accounterial and family stress and envisormment social disabilities consequently, these maternal factors influence child denial behaviors and envisores. Favoring is also afficied by maternal and family were, which has important important	Passive	Kim Seow., 2012 [71].
64	Box 9-1. Characteristics of Healthy Family.	that there mean contains the contains which a staggeries that family. There are 6 main domains within 1 sategories that contribute to family health. Unity is marked by commitment and time together, firefoldity is measured by family ability to deal with stress and spiritual well-being Family communication is broken down into-positive communication and approximation and effective.	Passine	Kim-Godwin & Bomar, 2010 [75].
45	Figure 1. A model of factors affecting the participation of children with disabilities.	This is a conceptual model of the environmental, family, and child factors theophy to infinence child participation in recreation and Feiners activities. It extantions the interaction between environmental, family, and child factors that influence a disability of participation in activities fakely, recreational, physical, etc.). Family becoming option, for accura- tant time impact, environmental factors and consequently are tapoposed by environmental factors and consequently	Active	King et al., 2015 [76].
64	Figure 1. Family systems theory framework related to youth health behaviors.	This framework explores how the family system may	Paning	
		This framework explores how the family system may influence health behaviors in youth. It demonstrates that protein purering styles are associated in improvements in youth health behaviors, including physical activity, weight less and diet.		Kitoman-Ulrich et al., 2008 [77].
e	Figure 2. Model for family psychonoxial well being in a South African content.	This model illustrates for dimensions of family psychonoxical well-being. The main interaction reductionships are between family, family strengths, and family hisrotioning, linteractions within family and damaly psychosoxical well-being case influence or be influenced positionly or negatively by other influenced positionly or negatively by other internal and externed dates of them; interactions, values, support, etc.). The model also acknowledges external influences of braids friendships, whoch continues, and influences of braids friendships, whoch continues commission, and influences of braids friendships, whoch continues, communities, and	Passine	Kiteman-Urish et al., 2000 [77]. Korn, van Enden, & Rothmann, 2015 [79].
c	Figure 3. Model for family psychosocial well-being in a South Adicson content. Figure 1. Conceptual between the explaining the extensionly between the miny securities, southern of abilities and shift and being.	The model fluntuins the dimensions of family psychonoxial who doing. The main intensition relationships are between family, family strongles, and family functioning fluntuintensity fluntuintensity and flundy frequency of the family strongles, and family functionships fluntuintensity fl	Passine Passine	Koen, van Eeden, & Rothmann, 2015 [14]. Kumar & Ram, 2013 [79].
67	Figure 1. Should far family psychosocial well-bring in a shock Allians content. Figure 1. Conceptual framework explaining the eviluation between the content of the content of eviluation of the content of the content of the content of psychological states of Figure 1. Theory of change of M FACT »	The model disturtion for disturtions of early perplaceasily along. The main sincision relationships are in heresey who should, the main sincision relationships are in heresey within further per less influence of the influence point of the reage possible of the property of the contract of the influence point of the reage possible of the property of	Passine Passine Active	Korn, van Feders, 8: Rodinastas, 2013-[19]. Komar & Ram, 2013-[19]. Laing et al., 2019-[10].
20	Figure 2. Model for family psychonocial well-bring in a search Johnson content. Figure 1. Conceptual framework-explaining the reflacement preserves family serveries, number of abilities and child well-bring. Figure 2. Scrawpfual framework for the development of the last health promotion visiting programme and family health.	The model distortive the dimensions of early psychocolic behavior, the main instance of actionally are between which length. The main instance of actionally are between which family and family psychoson day the slong case of the state of t	Passine Passine Active Passine	Kores, van Teders, & Rochmann, 2013 [19]. Komser de Rom, 2013 [19]. Laing et al., 2019 [10]. Laing et al., 2019 [10].
67 68 69 70	Figure 1. Shorter formers are supported as the following one of the following one of the following one of the following of th	The model distortive the dissessions of stortly psychocolic behavior from the stortly stortly on the stortly one sto	Passine Passine Active	Konn, von Folden, B. Rodmann, 2013 [19]. Konner & Rien, 2013 [19]. Konner & Rien, 2013 [19]. Laing et al., 2019 [10]. Laing et al., 2019 [10].
71	Figure 2. Model for family psychonocial well-bring in a south Adicus content. Figure 1. Conceptual documents explaining the relationship between family structure, souther of oblings and child well-bring. Figure 1. Theory of change of Mr PACT = Figure 2.5. Conceptual documents for the development of bodish production of the production of the bodish production to color programme and family bodish. Figure 1. Conceptual model of these parents influence their child's diversy behavior.	The model distortive the distortive of early psychocolised whose Jie Them and contract of actional age on between whole the Jie Them and contract of actional age on between which tends and family psychoson do well being on which tends on the substance or be influence pointed or suggested by significant or the substance of the influence pointed or suggested by significant or the substance of the influence pointed or suggested by the substance of the influence pointed or suggested or the substance of the influence pointed or support of the substance of the influence pointed or substance or the influence pointed or the influence of the influence pointed or the influence pointed or the influence or the influence pointed poin	Passine Passine Passine Active Passine Active Active passine	Kors, van Feder, S. Redmann, 2017 [15]. Kontar & Ren, 2017 [15]. Kontar & Ren, 2017 [15]. Lang et al., 2019 [16].
71 72 73	Figure 2. Model for family psychonocial well-bring in a south Adicus content. Figure 1. Conceptual documents explaining the relationship between femily structure, senders of oblings and child well-bring. Figure 1. Conceptual documents for the development of the child between femily structure, souther of oblings and child between of change of Mr PACT+ Figure 1. Conceptual documents to find development and the femily produced to the child of the power of the produced to the child produced to the femily between the femily between	The model distortion for distortion of early psychocological who plays Them interests of actionally are between whole the play Them interests and actionally are between which form and a family psychoson due the being can estimate the policy of the policy	Passine Passine Passine Active Passine Active Active Active Active	Kons, van Folke, S. Redmann, 2017 [15]. Konsen & Rom, 2017 [15]. Konsen & Rom, 2017 [15]. Langer ed., 2019 [16]. Langer ed., 2019 [16]. Langer ed., 2018 [16]. Langer ed., 2018 [16]. Langer ed., 2018 [16].
70 72 73 74	Figure 2. Model for family psychonocial well-bring in a shorth Advance content. Figure 1. Conceptual distance-ork-explaining the relationship between family structures, sensitive of obligation of the confidence of the content of t	The model discretive the discretive the district produced with being 12 thronic instruction estimating are herest within them to the sing are stimulated within the produced and with being are stimulated as the sing are stimulated as the singular stimulated as the extreme stands and stimulated as the singular stimulat	Passine Passine Passine Active Passine Active Active passine	None, van John, S. Redmann, 2013 [11]. Kome & Rom, 2013 [11]. Kome & Rom, 2013 [11]. Lang et al., 2015 [11].
71 72 73	Figure 1. Conceptual thousework or applicating the search Addition contents. Figure 1. Conceptual thousework explaining the evidencingle between first and the evidencing between femily structures, resorber of oblings and table with being and table who being. Figure 1. Conceptual thousework for the development of the being and table with being and table with being and table who are also as the property of the	The model distortion for distortion of early psychocological who should be made instituted relationships are better whose should be made instituted relationships are better with the first part of the property of the proper	Panilse Panilse Active	Same, and Sales. M. Redmann, 2013 [11]. Kontar & Rom. 2013 [11]. Lamp et al., 2018 [11].
70 71 72 73 74 75 76 76 76 76 76 76 76 76 76 76 76 76 76	Figure 1. Student for family psychosocial well-bring in a block Addition content. Figure 1. Conceptual frontenents explaining the estimated by the psychological formation of the estimated process of the psychological formation of the estimated process of the psychological formation of the psychological formation of the psychological formation of the psychological formation of the development of money and the psychological formation of the development of money and the psychological formation of the development of the psychological formation of advantage psychological formation of advantage of the psychological formation of advantage of the psychological formation of advantage psychological formation of the psychological	The model discretive the discretive design of produced with being 12 thronic instruction estimating are herest within the produced of the other produced o	Pamint Pamint Active Pamint Active Active	None, van John, S. Rodmann, 2013 [11]. Konne & Rom, 2013 [11]. Konne & Rom, 2013 [11]. Lang et al., 2013 [11].
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	is more adequate functioning in adelescents. This model represents the negative impact that having a child with portions has no purests emotional well-being, bealth, and will-care, family and social function, and personal well- being and life pursuits.	Panine	Telletion et al., 2017 [110].
Figure 2. Model estimates. Pigure 1. Conceptual model of the mediation of the association of kindly support and adolescent well-bring. Pigures 2. Just 4 or stDd testing of model components.]	and the state boots and family convenients. This model work is describe how engilphorthood quality, parent social support, and passint stews are postured properties social support, and passint stews are postured properties social support, and passint stews are postured, and parent stew are inflament facility for quality, social support, and parent stews can situation called IV exposure and parent stews can situation called IV exposure and parents are postured state and sufficient called IV exposure and posture. This model disasteries how material with bridge and parents processing support and parents appeared to the called a support to the parents of the parents and passing values of parents and posture presenting behaviors can result it is never adaptorie fractioning in a addiscribed in the result adaptories.	Active! Passine	[136]. Taplor & Roberts, 19 [187].
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	agents that committee or influency family batch. It includes external factors may be so so it getter, physical environment, emplyments, and the ways that social expects influence family characteristics and internal home procures. It emply purtners of internal indirect plants in the procure of the procure external enably health promotion and connected factors that the procure external color contextual factors are procured to the procure external color contextual factors.	Passive	Soubhi & Purvin, 200 [1875]. Swindle et al., 2018 [1105].
Pagent Lagrana a tamin ma.	into money propose an appear or name you that an envisor- intervention should target in order to achieve explined child functioning, with a focus on porventing aggressive and violent behaviors among youth. Family, paronting, and family estationably with other social contexts: use all import child functioning outcomer; these relationships can be influenced.	Active/ Passine	Smith et al., 2004 [11
H Fig. 1. An integrated conceptual framework of EPPV vaccination.	family and child extremes are males faceted. This work of the control of the con	Passine	Shapiro et al., 2018 [110].
19 Figure 2-1. Social custone of child health.	abilition. If this is comprehensive model of how the family is content observed shapes child encourses. Family inscrinning is determined by a simply what returns to incolar deservation. If the simply what returns to incolar deservation with the simply what returns to incolar deservation. If the simply we will return to return the content of the simply would network, community, and exact parish of an individual for fewer deservations in terms, influences a child's intents beinged and prochaegical for incolar beinged in the child's intents and in the child in the child's intents and in the child in the child's intents and in the child in the	Passing	Schor & Menaghan, 1995 [112].
Pigure 3. Model with standardized Beta values ⁴⁰ . Figure 3. Model with statistically significant pathways ⁴⁰ .	This model reproduces that basing comp presents are influenced by effective person child communication in childhood. Personal entitlede, subjective norms and prevented behavioral control control horse will have an impact on purent child communication and ultimately eating behaviors in emerging	Active	Scheinfeld & Shim, 2017 [1111].
If Fig. 2. Path analysis model of the moderating effect of future orientation [lamb] to the association between betweencest and extensinging profiles in Fig. 3 and 4. Path analysis model of the moderating effect of posess cold efficientially Fig. 3 and prevent monitoring (Fig. 4) on the association between becomemond and extensioning profiles.	promotion perent teating and include shildow's own experiences and knowledge and rights of the child. This model works to region the moderating effects of finitese orientations at the individual and family level, powers child relationships and percent monotomery on the association perfect the configuration for the association. In the property of the configuration of the association preparent as a cological brancational framework and the property of the configuration of the configuration of have one problem the latest or a addiscutive have one problem behavior in addiscutive.	Active	Sever et al., 2019 [1
relationship arrows; Figure 2. SEM.	contractions beared and a distinct for a distinct framework. The application of the contract framework and application of the contract framework and open proposes as of distinct, but how family ordering and open an integrate field even in the familial represents an integrate field even the familial represents an integrate field even the result of application of the contraction of the contra	Active	Rooth, 2018 [109].
report to transcent store process make the state of the	This model explores the ratio of family dynamics on the factority of the ratio of t	Panine	Roosa, Dumka, & To 1996 [100].
	Both nummetallider (i.e., demographic train) and modificale (i.e., child train, parential pholisories (institu and child factories determine bother risk behaviors of children. The relationship between this factor and bedds numbers in in-producious to be mediated by parent-child communication procurses, which can serve to either promote or discoverage child bealth risk behavior participation. This model enginees the ratio of family dynamics on the relationship between suggestion, accommit, pursuess, and child and the procurse of the processing processors.	Active! Passing	Robita, 2011 (107).
behaviors in middle childhood.	in children. It shows that there are risk factors for child health behavior on the family, individual, and environmental level.	Active! Passive	Riesch, Anderson, 8 Krueger, 2006 [100]
Figure 1. Rolly families model.	interbalan falls (basic servine.) The model depres the behavioral and biological consequences of field plantly environments. Bull plantly consequences of field plantly environments. Bull plantly consequences of field plantly environments. Bull plantly consequences of field plantly and plantly field plantly and plant	Passine	Reporti, Taylor, & Sooman, 2002 [105]
Fig. 1. A conceptual model tracting individual purest characteristics, parental coping and individual child characteristics to the management and encourses of opps I diabetes (TLD) in very young children (YC-TLD).	This model disastance here individual chains fainties of purceits can influence personal orging with affection, behavioral, and cognitive challenges associated with hering young children with Type I disabless. The effectiveness of purcents to cope with affective, behavioral and cognitive challenges in their children with Type I disabetes has an impact on Type I disabetes management behaviors and	Active/ pussive	Pierce et al., 2017 [1
	This conceptual model offers an explanation for the determinant or instantal handwarding behavior in the determinant or instantal handwarding behavior in the consonal period. It is based in the Health Felich Model, and include spectroid advantages and disastenges of disastenges of the state	Panire	Parveen of al., 2018 [1815].
Figure 1. Conceptual model for predicting the builth- promoting behaviors of children from low-income families.	timing were state and think training. The model represents there exchanged in levels and the variables at rules a gauge best or individual level that can influence at rules a gauge best or individual level that can influence and the state of the state	Active! Passive	Perk, 2018 [102].
Fig. t. Conceptual model.	states or approximate automotively are extract. This model proposes that family structure to spectories impact child health. It posits that socio-ocoomic per-cursors such as physical entrincomment, emotional or environment, hash physical entrincomment, emotional or environment, that health behaviors and oconomic environment can affect child health depending on how they are experienced by the child, and no merchanisms that help to explain the relationship between	Active/ pussing	Panius et al., 2019 [101].
Figure 3.1. Initial conceptual model.	household outcomes and post-deportation migrant outcomes. This model shows a process that links socioeconomic background is leastly process. Socioeconomic characteristics shape family structure, activity, and social networks, which consequently determine the physical, emotional, behavioral, and economic environments in which a child lines. There	Passing	Panion, 2002 (100).
FIGURE 1 A framework for researching the outcomes of family expressions due to paternal deportation.	children. Using an exe-cultural framework, this model effers a conceptual framework we examine presented impacts that presented from the conceptual of the effect of the e	Passine	Ojeda et al., 2020 [9
Figure 1. Pathways by which maternal employment may play a role in maternal and child weight status.	This model illustrates the pultways that maternal employment status can lead for changes in maternal and child weight status and EMI. Maternal employment may result in changes to food purchasing, improved household well-being, changes in methors' time altocation, and psychological effects leading to changes in health and weight among women and	Panire	Oddo et al., 2018 [9
and concepts.	strength, one date is again error steps. The model details the interaction of different types and its model details the interaction of different types and its model of the date of the da	Passine	Nonun Gunning. [67].
Figure 1. Levels of interacting family covironmental subsystems (LIFES).	interpolar. This model expression the fieldings that grandquarents of grandchildren is the PSCU experience. Grandquarents of grandchildren is the PSCU experience. Grandquarents often spectre experiencing fast or of their grandchild selects, befulge of association, toulation and suffering. At the same time, they appear fighting a suches the family, provide appear and strength, and after loops for better days. This model details the interactions of different types and benduringens and with prisons that family environmental influences have an oblifies and addisorder, foreign bilances of the rest or holdings and addisorder, foreign bilances.	Active	Niermann et al., 20 [70].
	This model illustrates the family factors that influence pathways that lead to early address on battle likesyle. Family factors like bedgeroutd, resources and percenting influence both likesyle of school entry, school factors and gree bealth floreyle. This model represents the feelings that grandparents of grandchildren in the PECU represence. Grandparents often	Passine	Moraes & Mendes- Castillo, 2018 [15].
	This model welch to reglain how brallime restrines can positively influence development language development, latency, skill entertional and behavioral registration, permet child attachment, and family functioning, mood/enviorateal/behavioral regulation and deeps from model child factors, family factors and stope in this model child factors, family factors and stope contestant factors influence behavioral regulations. This model distribution for the contestant factors and reference to the contestant factors influence behavioral regulations. This model distribution for family factors that influence manufactors that land to realize adolescent that land to realize adolescent that little factors from another than the land to realize adolescent that land to realize adolescent that little factors from the contesters with a land to realize adolescent that land to realize adolescent that little factors from the contesters with a land to realize adolescent that land to realize adolescent that land to realize adolescent that land the realize adolescent that the factors from the contesters and the land to realize adolescent that land the realized adolescent that land the realized adolescent that the factors from the contesters and the land to realize adolescent that the factors from the contesters and the land to realize adolescent that the factors from the contesters and the land to realize adolescent that the factors are adolescent that the land to realize adolescent that the land to realize adolescent that the land the land to realize adolescent that the land the land to realize adolescent that the land to realize adolescent that the land the land to realize adolescent that the land	Active	Molhorn & Lawren 2018 [Inc].
Fig. 1. Conceptual model of hypothesized benefits of a bedtime routine.	propased in any of the other components, This model quantifies prelential mediation of the relationship between addinates ADBID symptoms and depression symptoms by material and guidents upport. Parents upport variables examined in the model include involvement, autonomy, and warrant. This model weeks to registes how bedsitine resistance in positively influence development language development.	Active	Mindell & Williams 2018 [10].
climiciates.	simpromote factors, interpresent factors, and contents. This model filteration how air components of preparadities influence cognitive and emissional preparadities for case influence cognitive and emission in the Palico. These components include content of preparadities for case of preparadities for the property influentations of the Palico of the property influentations of the property influence of the property influence of the property influence of the property of the price for the price fo	Passive	Markwalter et al., 20 [91]. Melmoer et al., 2015 [91].
		Pandre	Markwaher et al., 20



Table 1. Summary table of identified models. https://doi.org/10.1371/journal.pone.0249707.t001

Description of studies by discipline

Of the 118 unique models identified, 11 broad disciplines were represented in terms of the area of study. This broad range of disciplines, described in <u>Table 2</u>, illustrates the breadth of interest in understanding the multi-dimensional factors that shape family health in a wide range of contexts.

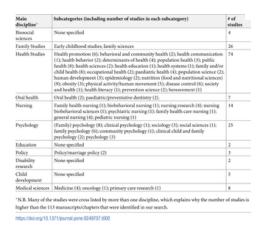


Table 2. Description of studies by discipline. https://doi.org/10.1371/journal.pone.0249707.t002

Family characteristics and behaviors identified in models

The family characteristics and behaviors that were identified in the models collectively are described in Table 3.

Characteristic or behavior	Further Description
Maternal characteristics	Education, age, marital status; genetics: mental health; obstetric health and birth outcomes; engages with child; prenatal care and nursing; mother's ideologies about wormen's roles; economic independence; maternal affection; SES
Paternal characteristics	Present in child's life/involvement; behaviors and characteristics; paternal affection; employment status; SES
Child's characteristics	Emotional security, adjustment; self-efficacy; mastery; "health promoting actor"; regulation of behavior; recipient of outcomes/parental influence; competence and resilience
Family characteristics	Shared values: healthy communication and supportive relationships; attitudes around flexibility, self-efficacy, sense of identity and illness; family routines; family composition and structure; family emotional climate
Parents	BMI; self-efficacy: family support; knowledge about nutrition and health behaviors; parenting styles; parent sex; education; positive parenting behaviors; biological parents; parental acculturation; mental health
Family composition	Single parent; parents divorced; step-family; no parent; female headed household; teen parent; size of family; extended family involvement; number of siblings; grandparent involvement.
Family characteristics	Emotional adultiny quality of parentings social support; family communication; family communication; family copings thared values/ritualse/culture boundarise/ratuse/culture; tokolence subling adaption, copingsignation; tokones, unlary, faciolistic, commitment, communication, spiritual well-being warmth, distribution of resources; family codesion, enganization; functioning conversations; conformity; norms and values; family adaptive and commitment; conflict; family caping; family satisfaction; security; family transitions; family manifestions; family manifestion; family manifestions; family
Potential stressors	Child with a disability; divorce; unpredictable events; absent parent; work-family-child care chaos; teen parent; ill parent; disease; conflict and aggression; abuse; neglect
Resources for health	Developmental opportunities; dental insurance

Table 3. Family characteristics and behaviors identified in the models. https://doi.org/10.1371/journal.pone.0249707.t003

Environmental and/or ecological factors described in models

The environmental and/or ecological factors that were described in the models varied. Some focused more on social and physical health determinants and others emphasized intrapersonal and interpersonal health determinants. In all models, multiple levels of influences were described as having an impact on family health, health behaviors and health outcomes. <u>Table 4</u> displays these ecological factors. To see how these environmental and ecological factors map onto each individual model, please see <u>S2 Table</u> (<u>S2 Table</u> Ecological factors and models).

Ecological Factors	Examples
Biological and psychological factors	Age; size at birth; emotional stability; self-esteem; sex; diet; physical activity; genetics; development; self-esteem; self-efficacy; coping mechanisms; cognitive dimensions; dignity; emotional insecurity; gender; disability status
Social, cultural and economic factors	SEx clucation; marital status; employment; ethnicity; household characteristics social support networks; social interaction; conformity to rules; health beliefs; family relations; family identity; leisure activities; culture; purental development; family health practices; family variables (family obligations, support, well-being); interparental insecurity; family health risks; active play opertunities; about; disease family meals; ethnicity; women's economic independence; maintenance of culture and traditions; language betweenemen processes
Health related factors	Medical and health services; healthcare quality; access to health services
Community factors	Neighbourhood quality and safety; school zone; healthy community development; community capacity for partnerships; community support; public transport; community programs; religious involvement
Physical Environment	Rural or urban; household characteristics and infrastructure (i.e. toilet, water facilities); healthy physical environment; physical activity opportunities; ecological environment and environmental exposure
Policy	Health communication; school food policy; school break practices and policy; social policy; family policy

Table 4. Examples of environmental and/or ecological factors described in the models. $\underline{\text{https://doi.org/}10.1371/journal.pone.0249707.t004}$

Core characteristics of health promoting families

Table 5 presents core characteristics of health promoting families as observed through our next analysis. While the models prioritized positive characteristics, many of the models also offered what we have described as characteristics of "health threatening families." These health threatening characteristics were sometimes directly yet conversely related to the health promoting characteristics. Illustratively, family stability and positive mother and father relationship were identified as health promoting characteristics while interparental conflict and having an unsupportive family were health threatening characteristics. While each family is unique, broad characteristics were universally important. These include holding shared values, having healthy intra-family relationships and communication, and encouraging healthy behaviours. Note that there was no consensus between models on what these healthy behaviours would be, and models all had specific foci around behaviours (e.g., dietary behaviours and exercise). Even more consistent across models, regardless of the behavioural focus of the model, was access to basic determinants of health such as socio economic background (and related determinants such as access to nutritious food) and education and positive relationships and support within the family.

Health promoting family chara Health promoting familial	Shared meaning, history and culture: family rituals: family spirituality:	
values	commitment to family unity; ethical values; sense of meaning and purpose, religiosity.	
Health promoting relationships	Positive mother and father relationship (marriage quality); his support; materna care and support; mutual support throughout family; family stability and cohesi- positive parent-child communications affection and attention; sense of family togetherness and compressor, family bouding, emotional bonding and support. family climate verarmin, respect, low, nonesty, trust); family balance and harmony, family relationships with neighborhood, peers and school; relationship skills	
Health promoting attitudes	Family facibility (adaptability and compromine, acceptance of difference of personality and opinion); self-efficacy (family and child, child self-perceived competence); autonomy granting renovargament of child personal developmen sense of identity and sense of meaning, now-biaming attitudes; positivity; respect for privacy for family members; positive attitudes about toolder and parental perceived child weight status and health related feeding goals; parental beliefs about child's participation in physical estirity; illens acceptance, encourages he parental sense of control, congunity between ideologies and roles in mothers; maternal self-enterin, appreciation and affection; compassionate, sense of humos maternal self-enterin, appreciation and affection; compassionate, sense of humos maternal self-enterin, appreciation and affection; compassionate, sense of humos maternal self-enterin, appreciation and affection; compassionate, sense of humos and appreciation of the control of the company of the control of the company of the control of the company of the control of the con	
Health promoting behaviours and habits	Food related: Positive nutritional habits (det and mealtime habits, breakfast consumption, enhancing parental knowledge about nutrition; purchasing hosbit foods, reading food labels, companionably at mealtimes; parental detary behaviour, preparing health, balance foods and meals: esting slowly, appropriat serving sixes; portion control, parental feeding style; reduce stitutulus for overeating; parent involvement in veglete, gain prevention; frust/vegetable intake breastfeeding, Activity related. Regular exercise; physical activity participation (tamily and child,) parental support for echil physical activity. Parenting behaviours. Positive presents (specific exercise) and support of the parental support for echil physical cativity. Parenting constitution and physical; positive conventing skills, positive communication, from furnity carrier, behaviours, communication (specific exercise) and parent set of the parent se	
Other health premoting factors	Family Hamily structure, single-family household, family size, emotional health parent and child, feld longainive and communicative fractions, number of sithing presence of caregiver, family resources, extrafamilial support, grandparents' socie economic background, child satisfaction, community-incivity-incid interverk, family life cycle, child development, child simuse characteristics, home content processes, family and control and familia, and control and trackment, parents' hability assump parents end beath knowledge and attention, parents hability assumption of the structure of the structur	
Health threatening family char	acteristics	
Health threatening familial values	None named.	
Health threatening relationships	Interparental conflict; maternal care and support; poor member relationships (between family, parent-child and siblings); family climate (unsupportive, cold); lack of parent-child communication; parent-child insecurity; interparental insecurity; low level of parental time	
Health-related attitudes	Lack of belief in child and parent competence; lack of healthy dietary beliefs; laci of parental sense of control; incongruity between ideologies and roles in mother negativity.	
Health threatening behaviours and habits	Nutritional habitatimproper dirt. lack of physical activity, child sedentary behaviors, substance abuse, lack of sleep, parental perceived child weight status, sugar-sweetened beverages, med patterns, parenting practices, family knowledge parental food and physical activity behaviours, child behavioural problems, familied acture, school achievement, family conflict, mother-child interactions, child screen time, child feeding practices, negative feeding peractices, parenting orgativity, parenting overcontrol, poor communication, adolescent rishy health behaviours, parenting practices, family drinking problems, neglectful deplunctional parenting paratices, family drinking problems, neglectful deplunctional parenting	
Other health threatening factors	Family, Living arrangements, poor emotional health in parent or child, divorce, child with disability parental depression, increased stressors, child adjustment (defensive, stress response, behaviour), child emotional inscentity in family, parent parent parent without procession difficult child Remperament, family stem, number of individuals being in household, lack of ramit substance abused, the constraints, family size, number of individuals being in household, lack of ramit substance abused, the constitution of the constraints, and the constraints, family size, number of individuals being in household, lack of ramit substance abused, the constitution of opportunities. Psychiatel house, lack of constitution of opportunities, Psychiatel house, lack of constitution of the con	

Table 5. Core characteristics of health promoting families. https://doi.org/10.1371/journal.pone.0249707.t005

The child's role in the health promoting family

There were variations in the models as to how the role of the child was represented. Thirty-two of the models specifically ascribe a role to the child that positions them as active agents in shaping their own health experiences. Another twenty-nine models represent the child as an individual member of the family but with the child having a less prominent or active role in shaping their own health. We describe this as having an active/passive role. Nearly half of the models (58) depict the child as a passive recipient of the actions of others, and the ecological determinants that surround him or her, and as part of a wider system but not necessarily as an active agent in his and or her own right. Table 6 presents the various ways that the different models present the role of the child in the family. (The specific ways that the child's role is depicted in each model is also noted briefly in column 3 in Table 1).



Table 6. Child's role in shaping health experiences. https://doi.org/10.1371/journal.pone.0249707.t006

Summary of main findings of the studies

Our search for models related to the health promoting family resulted in the consideration of studies from a very broad range of disciplines, methodological approaches, purposes and perspectives. Whether the study was looking at effects of parental depression [20], weight loss and obesity [66, 77]; academic outcomes [107]; mental health outcomes [105]; dieting and nutrition [82]; the participation of children with disabilities [76], child resilience [19], influences on participation in physical activity [36, 60, 61, 122], or parental perceptions regarding health behaviors for their children [63, 111] the importance—but also the complexity—of the task of modeling the potential of the family in the promotion of health or well-being was acknowledged.

Through our analysis, three main themes were apparent. First, and not unexpectedly, ecological or environmental factors are central components to most models or conceptual frameworks [17, 19, 27, 40, 43, 44, 52, 74, 96, 100]. Yet, the factors that were presented and their relative importance varies among the models. Second, most models were attentive to cultural and other diversities. In doing so, it appeared that authors were being intentional about presenting models that were broad enough to make room for a wide range of differences across family types, and for different and ever-expanding social norms and roles pertaining to families and family life. Rather than focus on what a family looks like, many of the models focused on how the family operates together [23, 58, 66, 75, 87, 125]. And finally, our review drew attention to the way that the role of the child is often presented in models of the health promoting family: less as an active agent and contributor to his or her own health within a family and more as a passive recipient of health that is shaped by a complex range of contexts.

Discussion

Environmental factors are important but their conceptualization varies by context

A strong similarity among most of the papers and models we reviewed was the priority given to ecological frameworks or approaches when considering the health promoting nature of families. Overwhelmingly, authors argued that human behaviors and health outcomes cannot be understood without taking into consideration the contexts in which they occur [21, 76, 82, 119]. This kind of thinking was integrated into most of the models, and the ways that each family interacts with various contextual aspects were described as influencing family functioning and health outcomes for all family members. Indeed, individuals within family systems not only influence each other, but are simultaneously influenced by interactions between family members and the environment [21]. Illustratively, the model by Fisher-Owens et al. (2007) depicts community, family and child level influences as important in shaping child oral health [55]. These authors elucidate their model by describing how the influences on oral health do not act in isolation but rather dynamically, via complex interactions. In 2017, Kalil [72] used Fisher-Owen's et al. (2007) model to further posit that these community, family and child level influences are bound by time and environment as complex interactions in which children live and experience their lives, and they have an impact on child oral health. In their 2014 model, De Coster and Zito demonstrate the importance of contextual factors by describing how emotional attachment of young people to their mothers is shaped by maternal distress, which in turn influences adolescent mental health outcomes [41].

The importance of environmental or ecological factors is well-established in the academic literature [1, 2], and our observation about their importance in these models is hardly groundbreaking. What is interesting about our findings, however, is that while there were variables that were seen in models repeatedly (for example, SES, family organization, etc.), there was no real consensus about what the actual environmental factors that were important to the various models might be. In part, identifying environmental factors that are important is complicated by the importance of contextually and culturally appropriate measurement and interpretation; what is a valid measurement or factor in one context may be interpreted differently in another. For instance, the environmental, individual and family factors related to acculturation in adolescent Latino [84] and Spanish [87] immigrant mental health differ from the influences related to youth mental health and parental risk taking, alcohol dependency, or single parent households [108, 123]. The issues that appear to shape the influence of parents over their child's mental health are different in different cultural contexts. While in all of these models [84, 87, 108, 123] child/adolescent mental health is influenced by parental and family variables, in some models, parental variables are predisposed by culture and context. Illustratively, in some contexts, acculturation [84] and immigration [87] are important shaping factors on youth/adolescent mental health, in other contexts these are not relevant. From geographic and cultural contexts as far ranging as rural northwest China [86], Romania [107], Latino youth in the United States [84], South Africa [78], South Korea [102], Kenya [42], Spain [87], African American [57], and Uganda [69] complex and dynamic relationships between various aspects of the child and family environment were characterized in diverse ways. The

conceptual frameworks that were developed were influenced by geographic and cultural contexts. One of the challenges of developing a conceptual framework for the health promoting family, and which indeed was recognized strongly in the studies in this review, is the importance of acknowledging that cultures, contexts, and families are unique. So too are at least some of the environmental factors that contribute to family well-being [24, 85, 91, 96].

Despite these natural contextual variations, the environmental and/or ecological factors that were described in the models mapped readily onto already well established social, physical, and structural determinants of health. Overall, while not surprising, our review suggests that researchers continue to find and use determinant of health frameworks when developing conceptual models related to family health [31, 46, 103]. While each family is unique, as our analysis in Table 5 demonstrates, there are other broad characteristics that appear to characterize family health. These include shared values (it does not matter what the values are so much as that they are shared); positive relationships; attitudes that support positivity, flexibility, care and healthy behaviours; access to basic determinants of health such as sufficient income and other health resources and access to healthcare. Table 5 also includes an analysis of health threatening family characteristics and includes factors such as family and interparental conflict; negative health behaviours (improper diet, lack of sleep and physical activity; family substance problems) and lack of basic determinants of health such as insufficient income; food insecurity and lack of access to health care providers and healthcare relationships. This review was prompted by our observation that a universal definition of a health promoting family does not exist. This scoping review reinforces the complexity of providing such a definition. Yet, what it does contribute is a synthesis of some of the basic categories and characteristics of health promoting (and health threatening) features of families, even in their uniqueness.

Diversity, and changing norms around social roles

Over the past many decades, dramatic societal shifts have occurred around norms of family life (including, for example, shifts in social and employment roles of men and women [28, 41], and the role and status of women overall). These societal changes include a resistance to restrictive paradigms about what it is to be a family, and a growing recognition that families come in many shapes, sizes and configurations. This makes it difficult to determine what a healthy family might look like in a diversity of contexts, and perhaps more importantly, reveals not only the pointlessness but also the danger of prescribing a typical family life cycle too specifically. This is especially true as families inevitably have expected or unexpected transitions over the life span. The focus we see in this literature review away from what "constitutes" a family to how a family operates is certainly healthy and avoids claims of any false normal.

As thinking around health and families evolve in ways that decentre what may be considered "normal", it draws attention to how understandings of health have evolved. This, too, was reflected in our review. Illustratively, Ball, Moselle & Pedersen (2007), point to the way that as understandings of health have expanded, "scholars and policy makers focused on families are increasingly subscribing to understandings of health as reciprocally determined by a broad array of biological and non-biological factors" [23, p. 6]. Notably, Denham (2003) [43] encourages thinking that moves beyond Western, dualistic and biomedical foci on health, illness and disease to a consideration of more diverse ways to approach individual and family health.

Consideration of adult gender was important across the models. It was then surprising that it was not as big a consideration in relation to the children in the majority of the models. However, where gender was considered, it was important. Illustratively, in their model, Molborn & Lawrence [84] draw attention to the overall weakening of socioeconomic disparities in health lifestyles and a strengthening of gender disparities as children age. Niermann et al. [96] model gender differences in the association between family functioning and weight status. While a higher level of family functioning was associated with decreased likelihood of being overweight among girls, this was not the case for boys. In the 2018 model by Shapiro et al., [113] there was a significant association between child's gender and the Precaution, Adoption, Process Model (PAPM) stage of decision-making, with parents of boys more likely to report being in earlier PAPM stages. Here, parents of daughters (compared to sons), parents of older children, and parents with a health care provider recommendation had decreased odds of being in any earlier PAPM stage as compared to the last PAPM stage (i.e. decided to get vaccinated). None of the models made any room for gender diversity or non-binary gender. We would expect as models of the family continue to evolve, attention to non-binary gender among all family members will become much more prominent in future models.

The child as a health promoting actor is undervalued

In our analysis of these models, the lack of attention to the kind of robust vision that was cast by Christensen in 2004 [10] as to the value of the child as health-promoting actor in these models was striking. Admittedly, and as depicted in Table 6, 32 (out of a possible 118) of the models that were reviewed did present children as active participants in achieving their own health. For example, both Gold et al. (2008) [59] and Wade et al. (2015) [123] noted self-efficacy as important to their model and Hauser-Cram et al. (2001) [64] drew attention to the child's ability to attain mastery and also to regulate one's own behavior. We were interested to note that gender did not appear to be a consideration in terms of the child's active or passive role. Age, however, appears to be important. In the 32 "active participant", older children and adolescents were more likely to be described as having an active role than younger children. This is not surprising given that as children and youth age, they naturally begin to take a more independent role in their own health. Several studies drew attention to the child's role in avoiding risk behaviors such as risky tobacco and alcohol use [5, 17, 35, 40, 51, 94, 96, 97, 99]. While another 28 of the models presented children's roles in what we categorized as "active/passive" roles, more often, however, these models (58 out of 118) presented children as passive recipients of health rather than as contributing agents to their own health journeys.

This lack of attention is short-sighted, because as Christensen [10] and others [129] [130] have argued, when children themselves are not included and encouraged as competent, capable agents, they are deprived of the opportunity to learn to make their own health related decisions, and to gradually learn to take responsibility for their own health behaviors and decisions. Including the child in this way is not intended to diminish the importance of the role of the parent(s) or environmental and contextual factors in shaping the health trajectories of children. Rather, it is in keeping with a growing body of research that illuminates the importance of children's contributions to the health promoting nature of their own families, and the empowerment that ensues when children are encouraged to contribute to the health promoting activities in the family [80, 129, 130]. In keeping with this scholarship, Woodhead and Faulkner [131] use research evidence to describe how the emergent competencies of children are not so much set along an artificial developmental timeline as they are *grown into* through active participation. When children are guided in their participation by supportive adults, their developmental capabilities evolve. In other words, when children are encouraged to become active agents in their own health journey, their participation itself appears to serve the dual purpose of also supporting their development [131].

One area to which this scoping review draws attention is in relation to illness acceptance, maintenance and self-management behavior in adolescents, and the ways that these kinds of active roles can be of particular importance [90, 128]. For instance, in their model, Mammen et al. (2018) [90] describe how self-management behaviors are motivated by personally important outcomes in teens related to their own ideas about symptom perceptions, medication beliefs, symptom management, and personal goals and priorities. Additionally, Zheng et al. (2019) [128] describe how the active roles that adolescents play in terms of understanding of their illness, overcoming limitations, normalization and readiness for responsibility lead to positive consequences of higher self-esteem, stronger sense of identity, better disease control, and improved quality of life in adolescents. In turn, all of this supports illness acceptance.

We observed a slow but potentially encouraging shift that appears to have occurred over the past five years. Whereas we observed that in earlier models, children were prescribed a primarily passive role (for example, only about ¼ of the models identified before Christensen's model was published in 2004 recognized the child as having an active role), a shift towards recognizing children as active agents in promoting their own health in many of the later studies was notable. Illustratively, within the 44 models that we identified between 2016 and 2020, over 1/3 of them (16/44) depicted the child as having an active role in promoting family health. It may be that the initial vision Christensen [10] proposed in her original theoretical framework, which includes the child as a health promoting actor, and that was the impetus for this review, is becoming more widely accepted as important to the health promoting potential of family contexts.

The notion of the child as a key health promoting actor in families is in keeping with Article 12 of the Convention on the Rights of the Child (CRC), which outlines participation rights [132]. Children from countries who have ratified the CRC, in keeping with their age and evolving capacities, have the legal right to express their opinions, to have a say in matters affecting their own lives, and to participate fully in society. This enables not only public agency, but also agency in their own family context. Participation as active, health promoting agents in the life of their family is an opportunity by which young people can have their ideas valued and recognized and can influence decision-making in ways that affect their lives. These kinds of roles not only contribute to the life of the family overall, but also facilitate growth, resilience, meaning and agency in the life of the child [71, 93]. This kind of active participation is also an internationally protected right [132]. Consequently, attending to children's voice, agency and participation should remain central to the ways that models of family health are shaped [133, 134].

Strengths and limitations

To our knowledge this is the first scoping review to identify studies that model the health promoting family. The strengths of this review include the systematic methods used for identifying included models. It provides an overall summary table that demonstrates the diversity of interest in this topic, and the different ways that health promoting families have been modelled across disciplines over decades. A limitation of this review is that only papers written in English were considered and relevant material written in foreign languages were omitted. This inevitably introduced a layer of bias in the final sample of included models.

Conclusions

In this review, we identified 118 models that describe the health promoting potential of families. The complexity of contemporary family life was well-described, including appropriate attentiveness to rapidly changing social norms and roles. Ecological and environmental factors were given high importance in all models, yet consensus on what the specific factors are that would facilitate a health promoting family rightly remained elusive. The models identified in this literature review come from a diversity of disciplines and indicate a broad and general relevance of family health. This could imply that a broad range of stakeholders are open to considering family health promotion and intervention strategies in a variety of different disciplinary contexts. The role of the child as an active agent—rather than a passive recipient—of their health journey was highlighted as an important gap in many of the identified models. Future research would do well to pay attention to the capacity of children within families to be active agents in shaping their own lives and the lives of their family members [134]. Not only is the active participation of children an internationally protected right, it is a powerful vehicle for supporting the emergent competencies of young people in terms of managing their own health experiences and trajectories.

The family is a key setting for health promotion. Contemporary health promoting family models can be used to establish scaffolds for shaping health behaviors and outcomes for families and can be useful tools for education and health promotion. This review contributes a synthesis of contemporary literature in this area and supports the priority of ecological frameworks and diversity of family contexts. It also encourages researchers, practitioners and family stakeholders to recognize the value of the child his or herself as an active agent in shaping the health promoting potential of their family context.

Supporting information

S1 Table. HPF review evidence table.

https://doi.org/10.1371/journal.pone.0249707.s001 (DOCX)

S2 Table. Environmental and/or ecological factors detailed in models.

https://doi.org/10.1371/journal.pone.0249707.s002 (DOCX)

S3 Table. Preferred reporting items for systematic reviews and meta-analyses extension for scoping reviews (PRISMA-ScR) checklist.

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(DOCX)

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