SPECIAL COMMUNICATION

Family Medicine and the Life Course Paradigm

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A unique characteristic of family physicians is that they seek to understand individual patients within the context of their families and larger social environments. Unfortunately, the intellectual development of family medicine is hampered by the reliance on epidemiologic, health service, and biomedical paradigms that are limited in their contextual perspectives on patients’ lives. However, another paradigm, that of the life course, represents an interdisciplinary framework that views persons in context over time. It provides an ecological understanding of individual people by examining phenomena at the nexus of social pathways, developmental or health trajectories, and social change. A life course paradigm provides a way of thinking about patients in both proximal (eg, lived lives and family) and distal (eg, health care system) contexts over a life span. Five core principles define the life course as a paradigmatic framework: (1) human development and aging as lifelong processes, (2) human agency, (3) historical time and place, (4) the timing of events in a life, and (5) linked lives. At the individual level, the life course orients physicians to the opportunities and constraints that frame the health care choices, plans, and initiatives of people who maintain health and also face illness. At the organizational level, the life course offers an intellectual infrastructure for the New Model of Family Medicine by depicting an idealized delivery system that may be longitudinally integrated. It also emphasizes health and illness trajectories by linking health and other service organizations that assist individuals at different stages of their lives. (J Am Board Fam Med 2007;20:85–92.)

“He does more than treat them when they are ill; he is the objective witness of their lives.”
—John Berger

Viewed from a philosophical perspective, family medicine can be considered a branch of science, but it is currently a branch without a well-defined orientation, often relying on epidemiologic, health service, and biomedical paradigms. From its nomenclature, family systems theory would seem to provide such a point of reference; however, most family physicians do not consider this perspective to be central to the discipline. Family physicians appreciate the considerable impact of family on the health of their individual patients, but they share a much broader worldview that is inclusive of the social and cultural contexts that extend beyond the family unit. The “science” of the family, its role in health and illness, and its importance as a focus for the care of the individual has never been adequately developed or demonstrated in the history of the discipline.

What are the alternatives? In this article, we introduce the life course as an interdisciplinary framework or paradigm that addresses the key issues that are distinctive of the family medicine world. This framework is grounded in a contextual perspective that views health and illness in light of the social and historical trajectories of individual persons. We conclude by assessing the potential contribution of the life course to the paradigmatic orientation of family medicine.

By paradigm, we refer to Thomas Kuhn’s The Structure of Scientific Revolutions. Kuhn argues that science does not develop by individual discoveries and inventions; advancement occurs only after a

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defined scientific community agrees on a set of shared assumptions regarding the subject matter at hand. Once these assumptions have been made and are no longer questioned, they become embedded within the scientific mind and represent a received set of beliefs for members of a discipline. This basic set of beliefs, or first principles, is termed a paradigm and constitutes a worldview that defines the perceived nature of the world, the individual person’s place in it, and the range of possible relationships to the world and its constituent parts. We consider the life course a paradigmatic framework.

**Lives As a Framework in Life Course Theory**

Family physicians often care for the same patient over many years, and they do so across changing times in the life of that patient (eg, health and illness) and in changing eras (eg, economic cycles) and places. Over these periods of care, related changes occur in the lives of patients, their family members, as well as in the life of the physician who provides care. A unique characteristic of family physicians, according to Ian McWhinney, is that they seek to understand individual patients (ie, persons) within the context of their families and larger social environments. The life course provides a way of relating these persons to their contexts over their life span.

A foundation on which to frame and articulate an understanding of physician and patient, in particular, begins with the social role or relationship theories that provided one of the earliest perspectives on lives. It is one strand of today’s life course theory. This perspective describes the socialization of people into and out of social roles (eg, parent, student) that are accompanied with a set of proscriptive and prescriptive expectations. Patients may occupy a sick role, which can release them from their usual obligations and responsibilities, such as work or parenting. However the sick role is not isolated to a uniform set of expected behaviors and attitudes but is contextualized by a lived history across different periods of the life span. Consider the older patient with congestive heart failure, who is generally more readily recognized and accepted by health care providers in the sick role compared with a younger patient with fibromyalgia, although both patients may have similar cycles of disability and physical functioning.

The transition from one family generation to the next across the life span depicts a life cycle in this way of thinking about lives. Children mature into adulthood, give birth to their own children, enter into middle years, late life, and retirement, and are replaced by their offspring. This human life cycle in a community, or in a larger society, portrays the role sequences of “linked lives,” but sequences do not indicate precisely where people are in their lives. First-time parents, for example, may be 20 or 70 years old.

Social roles also fail to locate people in historical time and place. Role-theoretical perspectives on lives, such as role change and life cycles, are limited in their ability to conceptualize lived experiences because they are “timeless”; that is, they fail to locate people within their lives and the larger social-historical context. Life course theory fills this void by incorporating concepts of age and temporality. These concepts recognize that age has multiple meanings and interpretations (eg, historical time, social time, biological time) and their lives vary in the timing and scheduling of events along the life course. Role relationships and the meanings of age jointly locate people in their lives and social-historical contexts. Most clinicians are familiar with the concept of biological time, which depicts the physiologic manifestations of a body that changes over time. In contrast, social age tells us where people are in their lives, whether young adult or middle age. Historical time, derived from birth year, places people into a historical era, such as children growing up during the Great Depression or adults who came of age during the 1960s.

Timing and the onset of key events also locate people along the life course and reveal the “variability” of lives. Some people complete their education early in life, whereas others do so in late middle age, after their children have left home. The health effects of life events and transitions often depend on when they occur, as illustrated when widowhood and bereavement occur either early or later in life. In addition, ill-timed events in one person’s life are not completely autonomous but affect others who are part of the larger social environment. Consider the impact of an unanticipated birth of a child to a teenager mother on the employment status and child-rearing timetable of the entire family.

The contextual aspect of the life course comes from perspectives on role relationships and age, the
2 intellectual strands of the life course as a paradigmatic framework. A third strand focuses on life-span concepts of development and aging, drawing on contributions from psychology and sociology. Concepts such as life review and autobiographical memory emphasize the importance of narrative and memoir accounts within lived lives, whereas perspectives on personal agency view people as central actors and producers of their own development. In the United States, patient-centered movements, such as end-of-life care and complementary and alternative medicine, can be viewed as attempts by patients to reclaim their own agency within a health care system that is increasingly depersonalized and grounded in technology.

A theoretical orientation on the life course emerged from these traditions: social relations (ie, roles and life cycles), the meanings of age, and concepts of life span development. Social and developmental trajectories and transitions are basic concepts of this new perspective. Trajectories are sequences or long-term patterns within a focal area (eg, health, family, or work situations) and are formed by linking states (eg, poverty, health status) and transitions across successive years. Trajectories are embedded in social pathways defined by social institutions and relationships that provide social support. Life trajectories can be charted by linking events or states across successive years (for example, the states of employment, earnings, and health). Each trajectory, whether social or developmental, is marked by a sequence of life transitions and changes in state.

Health trajectories differ from other longitudinal health assessments by focusing on sequences of health transitions across time and viewing the patient’s experience of health and illness longitudinally rather than as episodes. Such an approach provides an illuminating way to frame and communicate context within clinical settings. Consider the concept of trajectories of dying, which has received renewed attention in understanding the progression of serious chronic illness to death. Such trajectories—sudden death, terminal illness, organ failure, and frailty—vary in the timing and progression of health events, such as functional decline, but collectively provide a framework for understanding and articulating the last phase of life for both patients and physicians.

Trajectories are made up of transitions (eg, decline in health status). Transitions, in turn, acquire meaning within trajectories and are changes in state that are discrete and have an identifiable beginning and end. States and transition lead to the concept of duration, or the waiting times or spells between a change in state. A duration has many implications and meanings for the life course and health: duration of marriage is linked to marital permanence and the potential for stable economic and emotional support and, subsequently, improved health; duration of joblessness is correlated with the risk of becoming unemployable, experiencing poor health, and disability. In all these cases, duration typically stands for an explanatory process that is not well understood.

When a trajectory, with its transitions, changes course and places people in new environments, it is referred to as a turning point. Turning points are individual or institutional sentinel moments that result in a change of direction along one’s life course. For example, a chronically ill patient who declines further hospitalization or aggressive medical care has reached a turning point. The probable subsequent decline in health and functional status and entry into long-term care would constitute both a trajectory and a turning point. Personal and social trajectories are embedded in social relationships (eg, the family network, patient-physician relationship), which provide a more comprehensive understanding of factors that potentially affect a patient’s experience of health and illness.

Concepts of trajectory and transition are central themes in lived lives, representing both the long and short perspective on analytic scope. These lives take place over an extended span of time, a social trajectory of work or marriage or a developmental trajectory of illness or health. Transitions are always embedded in trajectories, which gives them distinctive form and meaning. In turn, trajectories, both social and developmental, are worked out in established social pathways, defined by institutions and populations. Chronic illness trajectories, for example, are largely the province of older adults and are shaped by institutions within a health care delivery system that is predominantly organized around acute care.

The life course paradigm can be viewed as an orientation that views persons within contexts over time. As such, it provides a foundation for disciplines seeking to promote an ecological understanding of people at the nexus of social pathways, developmental trajectories, and social change. As
noted, 5 general principles, derived from research in the social and behavioral sciences, provide guidance for such pursuits.

Paradigmatic Principles of the Life Course

Life course principles direct attention to individual choice and decision making, endorse an awareness of larger social and historical contexts, and promote an understanding of the timing of events and role change. They also view human lives within a matrix of relationships with significant others. Life course principles guide inquiry by enabling a holistic understanding of lives over time and across changing social contexts.35 They are (1) human development and aging as lifelong processes, (2) human agency, (3) historical time and place, (4) timing, and (5) linked lives.9

The principle of lifelong development and aging embraces a longitudinal, often intergenerational, perspective that links early life influences with events and outcomes in subsequent years.36 An emerging body of research on later life psychosocial sequelae in pediatric cancer survivors is representative of this principle.37 Human agency views people as active participants who construct their own life courses through the choices and actions they take, given the opportunities and constraints of history and social circumstances.22,38 The construction and maintenance of meaning is of primary importance to chronically ill patients39 and to those approaching the end of life.40

The principle of timing highlights the developmental antecedents and consequences of behavior patterns, life events, and transitions that vary according to their timing in a person’s life.9 The meaning of a family member’s death varies by stage of the life course—note the meaning of a child’s death versus that of an elderly grandparent. Expectations on when life events should occur are implicit in the principle of timing and are normative in areas such as childbearing and family life, and those around the beginning and end of life.41 As a result, patients may view themselves as synchronous (“on-time”) or asynchronous (“off-time”) with these expectations. This principle is illustrated by variations in the timing of menarche, whether early or late, and by a high-school student who unexpectedly finds herself pregnant and in a “too early” age group according to the family formation timetable of her birth cohort. Events that come too early, such as the loss of a parent, seem to have more severe emotional consequences than an on-time event.

Linked lives refers to the interdependence and network of shared relationships that surround individual lives. The concept of “social convoy,” a grouping of significant others (eg, important family members, long-time friends) across different life periods,16 conveys a longitudinal and fluid aspect that is less readily achieved by social support or family network constructs.42 This concept is also more inclusive than the family unit because it captures the support network accompanying the patient. It places the physician within the context of a shared relationship with the patient as well.

Both individual lives and social convoys are located in a specific historical time and place, another core life course principle. The individual life course is embedded in and shaped by the historical times and places that a patient experiences over a lifetime.9 Consider the social and economic effects of the current AIDS epidemic on African children. Homelessness, migration, malnutrition, and reduced access to health care and education are staggering problems that have greatly increased the probability of illiteracy, poverty, and chronic illness in subsequent adulthood for this population.43 These effects can be viewed as historical and eco-logic constraints that limit the range of potential opportunities and choices along the life course of these children.

According to the Institute of Medicine, the major role of primary care is to integrate the health care experience by providing accessible health care services, developing a sustained partnership with patients, and practicing within the context of family and community.44 Multiple levels of the life course provide a way for family physicians to understand patients who experience health and illness and receive health care within proximal (eg, family) and distal (eg, health care system) contexts over time. Extending across these levels are institutionalized pathways that establish a context in which people make choices, plans, and initiatives about the health and illness that affect their lives.35

Family Physicians and the Life Course

The life course has gained wide acceptance across multiple disciplines, enriching our understanding of aging and gerontology, criminal justice, devel-
generations. At a philosophical level, the life course thinking relates to the tradition of family medicine, a discipline that is attempting to understand contextual factors (Table 1). Life course health records within the New Model would depict patient trajectories, transitions, and turning points by determining sequences of health and illness across time (eg, change in health status, entry into assisted living or long-term care), and the patient’s experience of health and illness longitudinally rather than as episodic events (eg, acute hospitalizations, office visits). In addition, health records could also account for place effects, which are characteristics of the social and physical environment, by using geographic information systems to capture and understand features of the local environment that influence health and health care, such as poverty and unemployment rates, population density, and the distribution of health services in a defined area.

The life course offers a paradigmatic grounding to family medicine, a discipline that is attempting to understand contextual factors (Table 1). Life course thinking relates to the tradition of family physicians who provide care within the context of their communities; they are looked on as physicians who know their patients over time and across the generations. At a philosophical level, the life course fixes the clinical gaze of family physicians beyond the patient as member of a family unit to the patient who is a traveler along the life course. This suggests a role for the family physician as patient historian and interpreter, and health care guide and advocate along the trajectories, transitions, and turning points that accompany health and illness.

How would physicians, who are influenced by the life course perspective, relate to their patients, their health care colleagues, and the health care system, differently than today’s family physician? Fundamentally, life course principles would direct the physician’s attention to the contextual factors that affect patient choices, plans, and initiatives regarding their health and health care. The New Model of Family Practice, described in the FFM project, provides some practical applications to this new way of thinking. For example, the New Model endorses an ongoing examination of patient care data and the solicitation of patient feedback (eg, satisfaction with care) as quality indicators.

In such a model, physicians with a life course framework would gather these data and feedback to ascertain the age-related elements of healthy adaptations, such as self-efficacious health behaviors in adolescents (eg, smoking cessation, drug and alcohol prevention) and sustained functional status and enhanced quality-of-life in chronically ill older adults, as patient-centered indices of quality.

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Physicians of the life course would occupy a central, integrated role in relation to their subspecialty and other health care colleagues by using their contextual knowledge of the patient to help outline care options and facilitate decision making within and across all health care settings. For example, life course-oriented physicians would be prepared to work out the pathways of chronic care with their patients and colleagues at turning points, those individual sentinel moments that result in a

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<th>Term</th>
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change of direction (eg, entry into long-term care). They would do so by recognizing and guiding their patients through the institutional opportunities and constraints that frame the health care choices, plans, and initiatives of those who face illness, disability, and sometimes death.

From a systems perspective, a major recommendation of the FFM project promotes changing the organization and delivery of care through the New Model. It calls on family physicians to manage relationships, information, and processes of care in a reintegration of patient, physician, and practice in a New Model.3 In addition, the New Model’s emphasis on quality, described earlier, is congruent with a report from the Institute of Medicine, which recommends that the Centers for Medicaid and Medicare increase payments to providers who deliver high-quality care and consider replacing fee-for-service Medicare with a reimbursement and organizational structure focused on quality chronic illness care.455

In response, the New Model would position physician practices as a “medical home,” with responsibilities for delivering quality medical care, coordinating care across health venues, providing health education, and supporting family caregivers.355 Life course physicians would be intellectually grounded and trained to improve the health of a defined population over the entire life course within the medical home. Within an idealized delivery system, a life course medical home would be longitudinally integrated, with a focus on minimizing developmental risks, such as poor diet, and optimizing health development trajectories, not only by linking health services but also by relating all organizations that serve people at different stages of their lives.48

Life course theory can also establish family medicine at the forefront of an emerging translational research agenda, where organizing and integrating multiple biological and social factors in a conceptual framework requires a systemic, longitudinal perspective. For example, rapid advances in basic and clinical science are identifying the complex genetic, metabolic, psychosocial, and environmental factors that contribute to obesity and its comorbid conditions, such as diabetes mellitus.56 By using the principles of human agency, linked lives, and lifelong human development and aging, family medicine investigators can frame research questions relevant to obesity studies.57 Lifelong development and aging orient clinical inquiry to the importance of early life influences (eg, learned eating behaviors, childhood obesity) on subsequent outcomes (eg, adult obesity, development of diabetes). Potential interventions to reduce obesity in children would need to account for the social ties and influence of parents and other family members, the linked lives along this period of the life course, as well as the cognitive dimensions of agency beliefs (eg, sense of self, self-esteem).

Final Comments
Family medicine has lacked a set of first principles and is now at a turning point in its own life course, as the field seeks to reinvent itself and re-establish its role within a changing US health care system.8 However, it shares a common historical timeline with the development of the life course with remarkable symmetry in both language and perspective. The intellectual history of family medicine is rooted in a commitment to people rather than to a body of knowledge.2,58 As such, it requires an orientation that conceptualizes, integrates, and ultimately humanizes the health and illness experience of patients who live their lives within a specific historical time and place.6 Family medicine also requires a way to articulate the world view of physicians who gather, interpret, and share these events with patients in continuous healing relationships.59 At the intersection of contexts, historical, social, and biographical, resides the life course of interdependent lives, providing a potential paradigmatic framework to further this endeavor.

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References


