# A Story of Health A Multi-media eBook

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# The Power of Personal Stories:

Cased-based learning has long been used in medical education. Our eBook grounds the science of health in stories of fictional people, their families, and communities to enable readers to explore the

**Genetics Increase Susceptibility** 

collection of risk factors for increasingly common illnesses that are a serious problem for the health of our nation.

# **Examples:**

"Brett is a nine year old boy who lives with his mother in an urban area. Like many children, Brett suffers from asthma..."

**Gene-environment** interactions, such as in this example from the asthma story, can have dramatic effects.

### **Stress-environment** interactions:

"...For example, prenatal and early life exposure to social stressors, such as violence, can increase the risk of asthma as well as increase the impacts on respiratory health from allergens, air pollution, and tobacco smoke.'

Stress affects our health. Watch this video by Dr. Rosalind Wright to see how social stressors, along with environmental factors can be linked to asthma. (5 min.)

Our individual stories

gather and socialize.

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highlight the many ways our

complex environments where

health is influenced by the

we live, eat, work, exercise,

**Multiple factors influence health** 

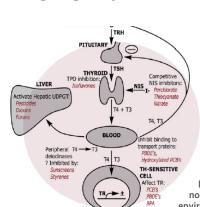


one in six young people in America, Amelia has a developmental disability..."

PRENATAL HEALTHY CARE **A Rationale for Thyroid Screening Before or During Pregnancy** 

"Amelia is a

13-year-old. Like



Adequate levels of thyroid hormone are necessary for ormal brain development. Some environmental chemicals can disrupt yroid hormone levels and function

> Although not an exhaustive account, the eBook is a presentation of current scientific evidence to help readers make informed decisions and take actions to promote health.

Thyroid disruption

technical diagram

**Thyroid System** 

Individuals and families are progressively nested within communities, societies, cultures, and ecosystems. Each of these levels has significant influences on the others.

In many instances, each can influence levels of healthy or harmful biologic markers, such as inflammatory mediators or stress hormones, that can be measured in people's blood.

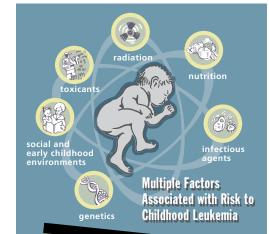
We call this an ECOLOGICAL FRAMEWORK because it recognizes the contribution of each level to the health status of individuals, families, communities, ecosystems. Health Framework

Using the setting of a family reunion as a backdrop, we explore how multiple environments influence our health across the lifespan.

> "Stephen is a 3-year-old boy in treatment for childhood leukemia..."

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# **Early life exposures contribute** to lifelong effects





The ecological

also extends

cellular level.

to the sub-

health framework

(1:40 min.)



Download the Story of Health announcement flyer at www.healthandenvironment.org/ resources/story\_of\_health

Our goal: Improve the

health of individuals,

families, communities

and patients.

# **About the eBook:**

A Story

An interactive document with multiple chapters features prompts for embedded information and links to online resources.

> that clearly explains the multiple factors that influence our health across the lifespan – the natural, built, chemical, food, economic, and social environments - and how they interact with genetics and each other.

Finally, a resource

# A Story of Health is the first installment of a new eBook on how to promote health and prevent disease.

Pop-up graphics and reveal key concepts, relevant graphics and links to videos presented by researchers in-depth information for clinicians.

watch a

for health

## A Story of Health is written by health experts with content relevant to a wide audience, from clinicians, to health advocates, to policy makers.

The stories are accessible to an educated lay audience with more technical sections for scientists and medical professionals who can access free continuing education credits through the eBook.



Watch: Dr. Mark Miller discusses the **Barker hypothesis** 



### **Acknowledgements**

A Story of Health is a collaboration among the Agency for Toxic Substances and Disease Registry (ATSDR), the Collaborative on Health and the Environment (CHE), the Office of Environmental Health Hazard Assessment, California Environmental Protection Agency (OEHHA), the Science and Environmental Health Network (SEHN), and the University of California, San Francisco, Pediatric Environmental Health Specialty Unit (UCSF PEHSU).

A Story of Health will be available as an eBook with free Continuing Education credits available for health professionals. For more information contact Maria Valenti, mvalenti@igc.org or Brian Tencza, bht1@cdc.gov.

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