Record Nr. UNINA9910462017703321 Autore Lockwood Alan H Titolo The silent epidemic [[electronic resource]]: coal and the hidden threat to health / / Alan H. Lockwood Cambridge, Mass., : MIT Press, c2012 Pubbl/distr/stampa **ISBN** 1-283-57460-8 9786613887054 0-262-30541-0 Descrizione fisica 1 online resource (242 p.) Disciplina 363.17/9 Soggetti Coal - Environmental aspects Pollution - Health aspects Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Contents; Preface and Acknowledgments; Chapter 1. Introduction; Linking Coal and Health; Clean Coal; Advice to Readers; References; Chapter 2. Coal; References; Chapter 3. The Pollutants; Overview of Exposure to Hazardous Air Pollutants: Hazardous Air Pollutants and the Clean Air Act; Mercury; References; Chapter 4. From Mine to Ash; Mining Coal: Washing Coal: Transporting Coal: Burning Coal: Disposing of Waste: References: Chapter 5. Mitigation of Pollutants from Burning Coal; Pollutants Other Than Carbon Dioxide; Carbon Dioxide Capture and Storage: References Chapter 6. Pathophysiology: How Pollution Damages Cells and Tissues The Central Role of the Lung: Reactive Oxygen Species and Oxidative Stress; Air Pollutants and the Central Nervous System; Resistance to Oxidative Stress; Ozone, and Oxides of Nitrogen and Sulfur; Mercury; References; Chapter 7. Basic Health Considerations; Lessons from Evidence-Based Medicine; Effects of Pollutants on General Health: The Bottom Line; References; Chapter 8. Diseases of the Respiratory

> System; Asthma; Chronic Obstructive Pulmonary Disease (COPD): Chronic Bronchitis and Emphysema; Cancer of the Lung and Bronchus Coal Workers ' Pneumoconiosis or Black Lung Disease Summary;

References; Chapter 9. Diseases of the Cardiovascular System; Atherosclerotic Cardiovascular Disease: Controlled Studies of Humans and Animals; Summary; References; Chapter 10. Diseases of the Nervous System; The Brain and Pollution; Cerebral Vascular Disease; Effects of Mercury; Summary; References; Chapter 11. Health Effects on the Horizon; Particulates and Neurodegenerative Disease; Air Pollution and Diabetes Mellitus; Are Diabetes and Alzheimer 's Disease Linked?; References; Chapter 12. Coal, Global Warming, and Health The Greenhouse Effect and Global Warming Global Warming and Health: Effects on Agriculture and the Food Supply; Coastal Flooding; Global Warming and Air Quality; Science, Perception, and Global Warming; References; Chapter 13. Energy and Health Care Economics; Estimating Health Impacts; Specific Cost - Benefit Analyses; Do It Yourself Cost Analysis; What's Not Here; Conclusions; References; Chapter 14. Policy Implications; Rulemaking - Agency Actions; Rulemaking - Legal Actions; The Clean Air Act and Air Quality Standards; The Role of Physicians; Policy Objectives; Final Thoughts; References GlossaryIndex

Sommario/riassunto

Why our dependence on coal-produced energy is bad for our health: a physician maps the connections of burning coal to death and disease.