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Mesothelioma in Northeastern Minnesota

Sanne Magnan, M.D., Ph.D. Commissioner of Health Cancer mystery ignor Rare and incurable, mesothelioma is striking men in northeastem Minnesota at a rate far higher than average. But a state inquiry into the reason for the high rate of asbestos-related cancer has never been launched - despite years of warnings and concern.

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TUME 17, 2007 - STARTELEOME.COM & THE LAWE CAN WAIT: 17"2 TOUR DAY, DAD - MINERAPOLII - ST. PAUL - 11.72

Multiple births multiply risks for parents and children

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FEBRUARY 20, 2003

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Creative ways

to split parenting

icer to asbestos

Minneapolis

Experts hint asbestos problem,

but say further study is needed

STAR and TOU

Health worries on the Range/

NEWSPAPER OF THE TWIN CITIES

www.startribune.com

1gh taconite can contain aske minerals, researchers said nmercial asbestos - once a 1 fire retardant widely used in ulation and boiler rooms and in - is likely to blame. eport, which was authorized by slature, has taken five years and

omplete. A draft of its executive ry was released only after the ibune requested it under the ablic records law. the study is unlikely to set the the over whether inhaling taconite

R continues on A17: entist says if dust caused cancer he uld expect more cases in women

auses disease.



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Star Tribune

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Sunday March 3, 1985

Lung X-ray results raise questions



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Mesothelioma Statistics for MN

- Ave. of 65 new cases per year (out of a total of 23,500 new cancers of all types)
- Sex: 78% of cases in males
- Age Range: 26 97
- Age at Diag: Ave = 70.0, median = 72
- Survival: 75% Mortality at 1 year
- Pleura = 86%; peritoneum = 12%
- Rate in NE Minnesota Two-Folder Higher in Men



MDH Reports

- 1997: Cancer Rates and Trends in Northeastern Minnesota
- 2003: Exposures to Commercial Asbestos in Northeastern Minnesota Iron Miners Who Developed Mesothelioma
- 2007: Mesothelioma in Northeastern Minnesota and Two Occupational Cohorts
- http://www.health.state.mn.us/divs/hpcd/cdee/occhealth/index.html



Demographic Characteristics of 59 Mining Cases

Age	No.	
40-49	1	
50-59	5	
60-69	19	
70-79	23	
80+ 11		
Range 47-90		
Ave. = 71.4		

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Site	No.
Pleural	57
Peritoneal	2

Gender	No.
Male	59
Female	0

Region	No.
Northeast Minnesota	44
Other Minnesota	15

Center for Occupational Health & Safety

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Work History: Length of Employment and Latency for 58* Mining Cases

Length of Employment

Latency (1st job-Dx)

Years	No.	%
<1	14	24.1
1-5	16	27.6
6-9	2	3.4
10-29	9	15.5
≥30	17	29.3

Years	No.	%
<30	1	1.7
30-39	12	20.7
40-49	24	41.4
50-59	16	27.6
60-69	5	8.6

*Work history for latest (59th) case not yet ascertained



Work History by Company for 58 Mining Cases

Company (employees)	No.
Reserve (10,813)	9
Inland (618)	0
US Steel (34,680)	24
Jones & Laughlin (6,251)	3
Hanna (15,826)	6
Pickands Mather (18,506) (Erie/Hibbing)	28
Eveleth (2,269)	3

Totals to 73 due to 13 cases working at 2 or more co.
Employees counted for each company worked
Work history for latest (59th) case not yet ascertained

M I N N E S O T A MDDH DEPARTMENTOFHEAUTH

Taconite Miner Health Studies Under Development

- Case-control study of mesothelioma
 - To include assessments of both silica dust and commercial asbestos
 - Will include true "controls"
- Respiratory morbidity screening study of current/past workers and spouses
 - Chest X-rays for pneumoconioses
 - Pulmonary function tests
- Cohort mortality follow-up of 72,000 miners
 - Examine all causes of death compared to all MN



Updates and Further Information

- University of Minnesota School of Public Health: Minnesota Taconite Workers Lung Health Partnership
 - Jeff Mandel, MD, MPH, Prin. Investigator 612-626-9308
 - http://www.sph.umn.edu/lunghealth/home.html
- Minnesota Department of Health
 - Alan Bender, DVM, PhD, 651-201-5900
 - Allan Williams, MPH, PhD, 651-201-5900
 - http://www.health.state.mn.us/divs/hpcd/cdee/occhealth/meso.html

