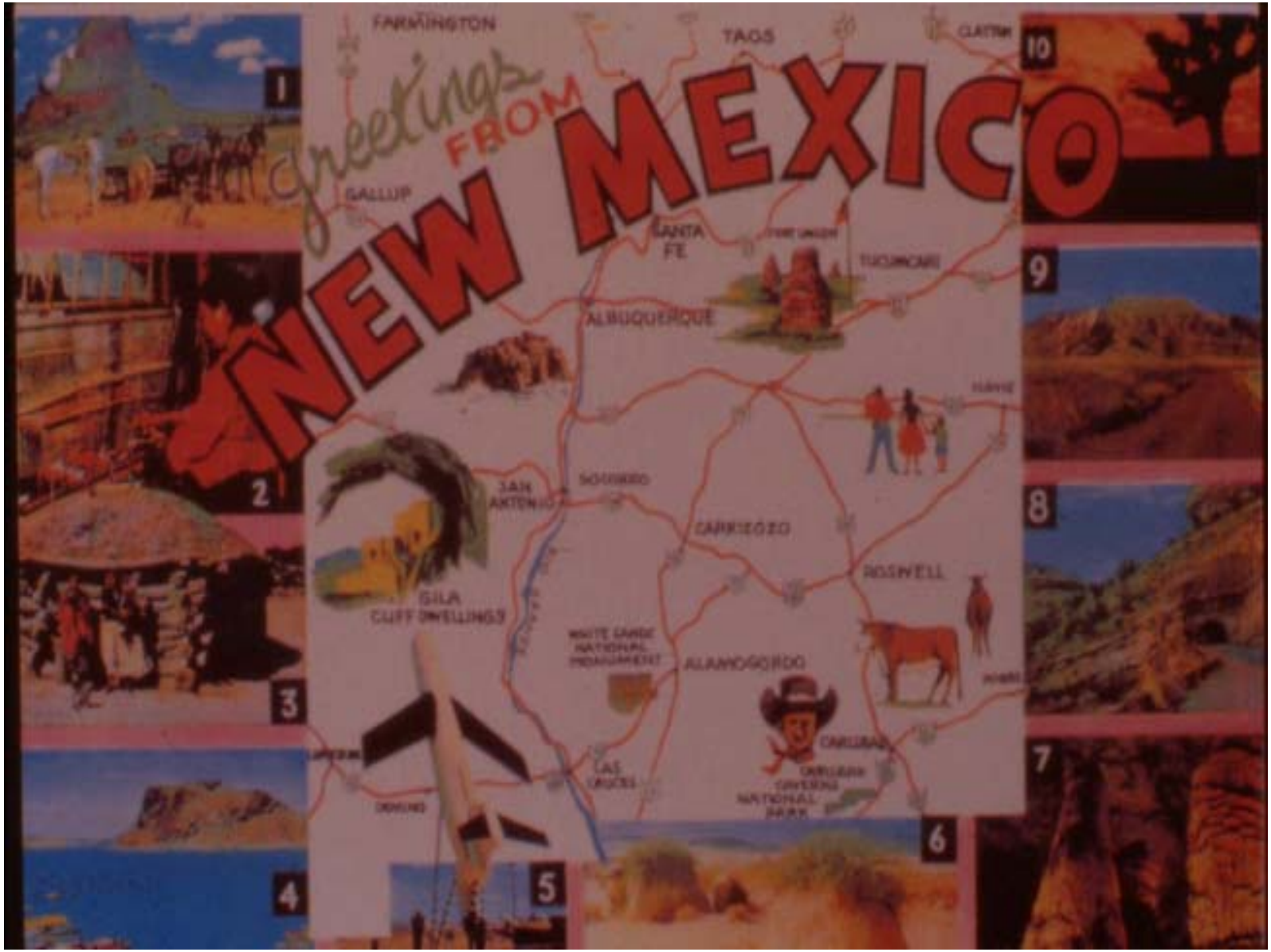

Greetings
FROM
NEW MEXICO
FARMINGTON
TAOS
GALLUP
SANTA FE
ALBUQUERQUE
SOCORRO
SAN ANTONIO
CARRIZOZO
ROSWELL
GILA CLIFF DWELLINGS
WHITE SANDS NATIONAL MONUMENT
ALAMOGORDO
CARLSBAD
LAS CRUCES
1
2
3
4
5
6
7
8
9
10

Of Mice and Men

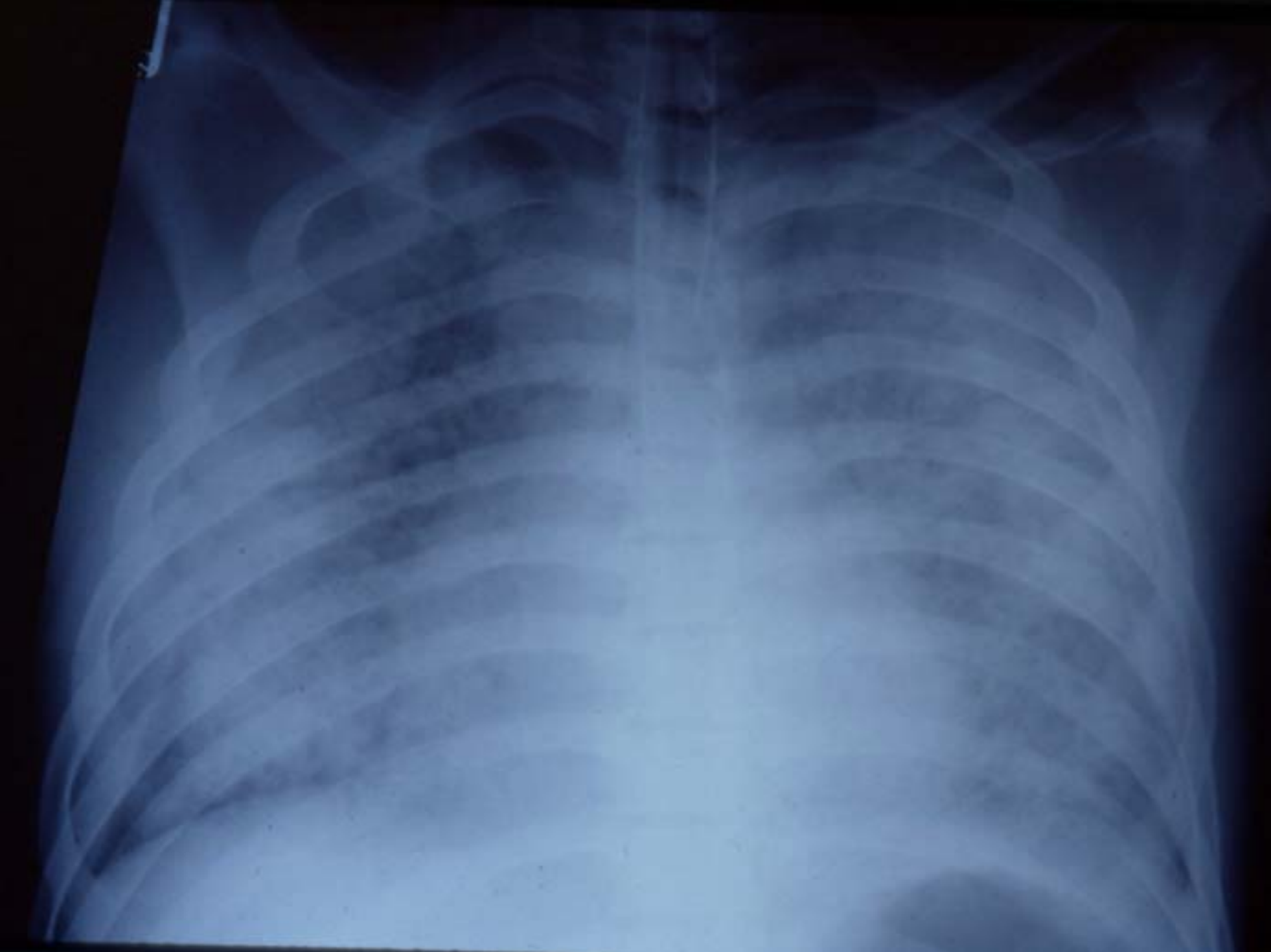
Hantavirus Pulmonary Syndrome

Bruce Tempest MD,FACP Gallup NM

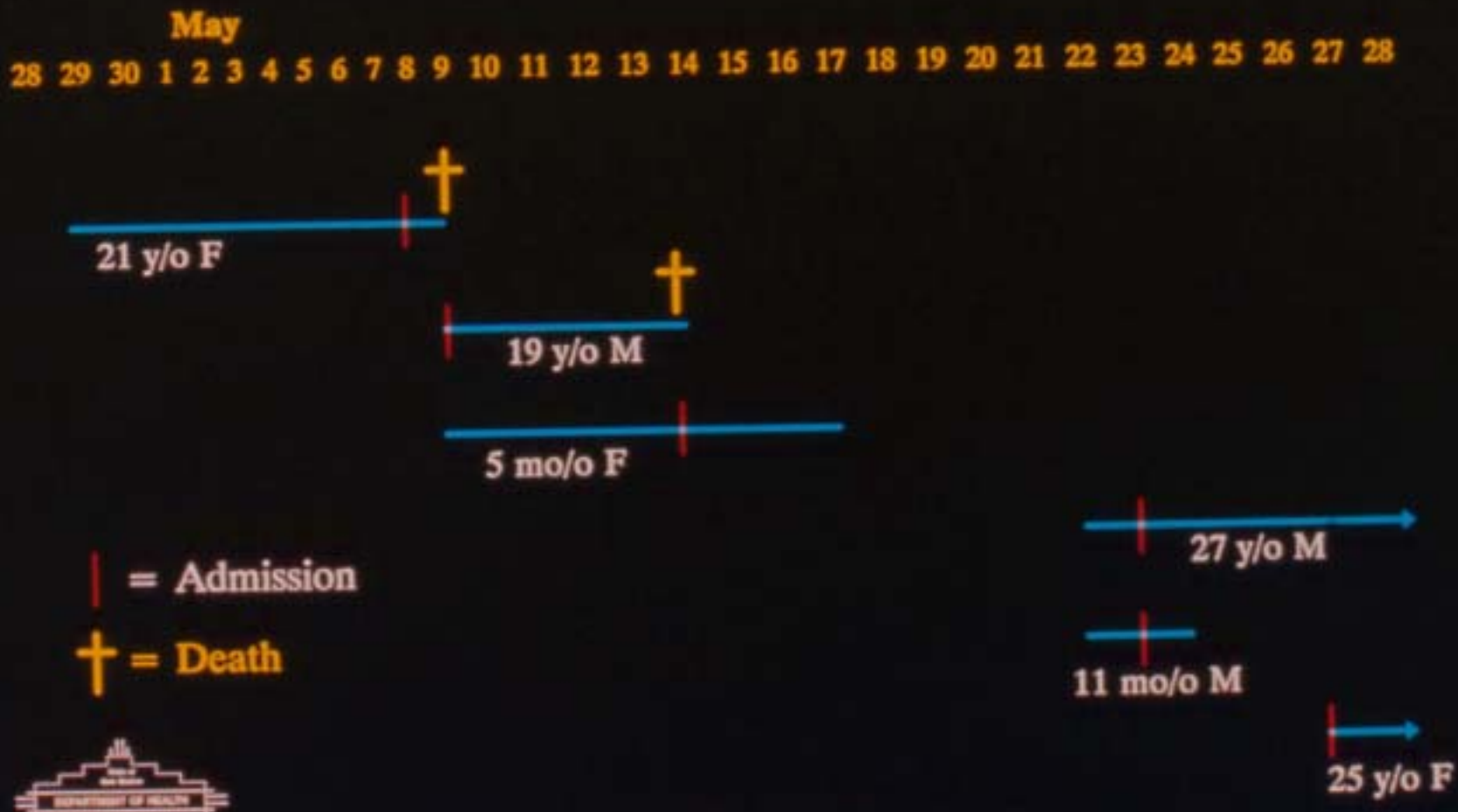
"The best laid schemes of mice & men gang aft a'gley

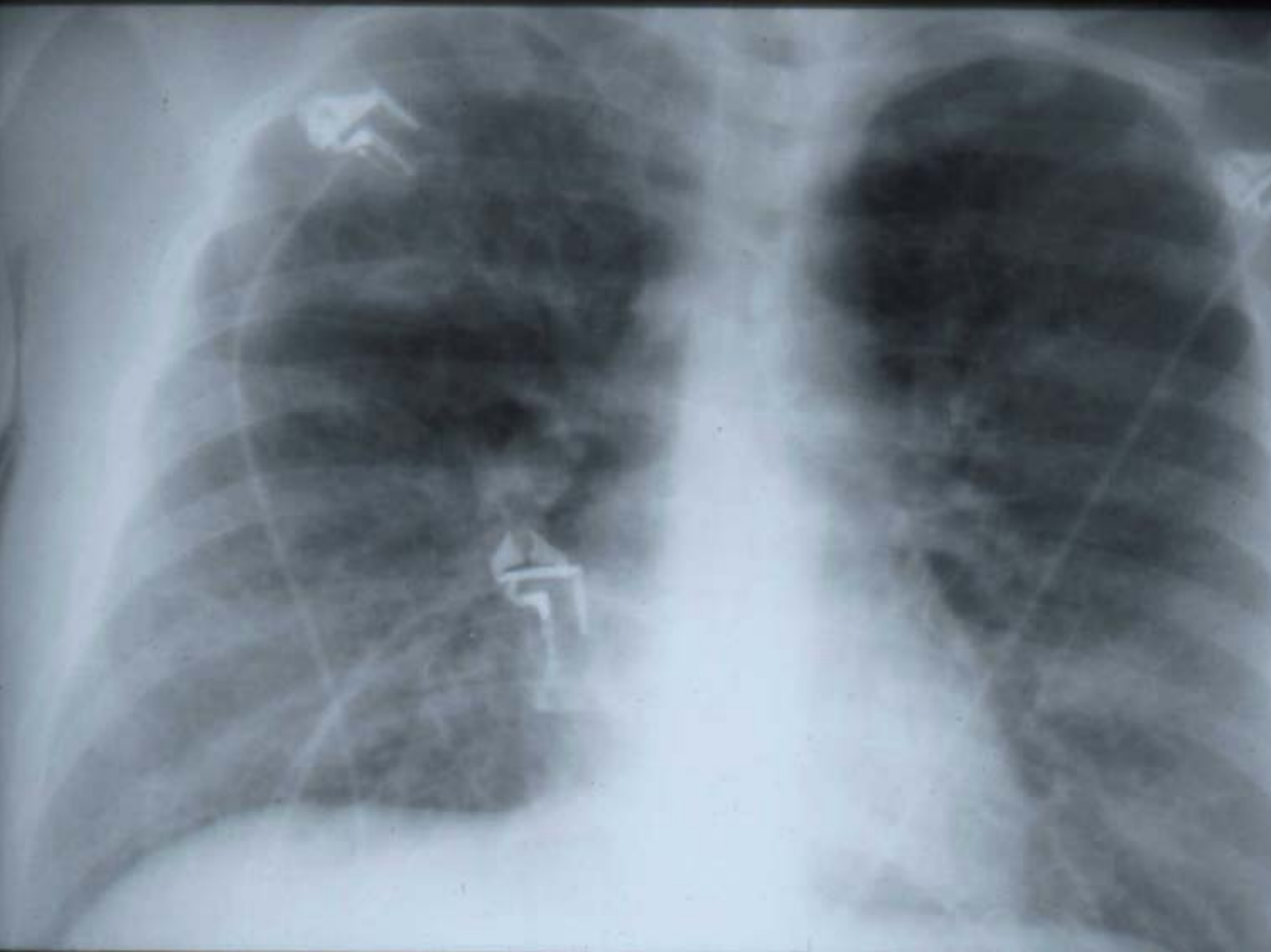
Robert Burns 1759-1796

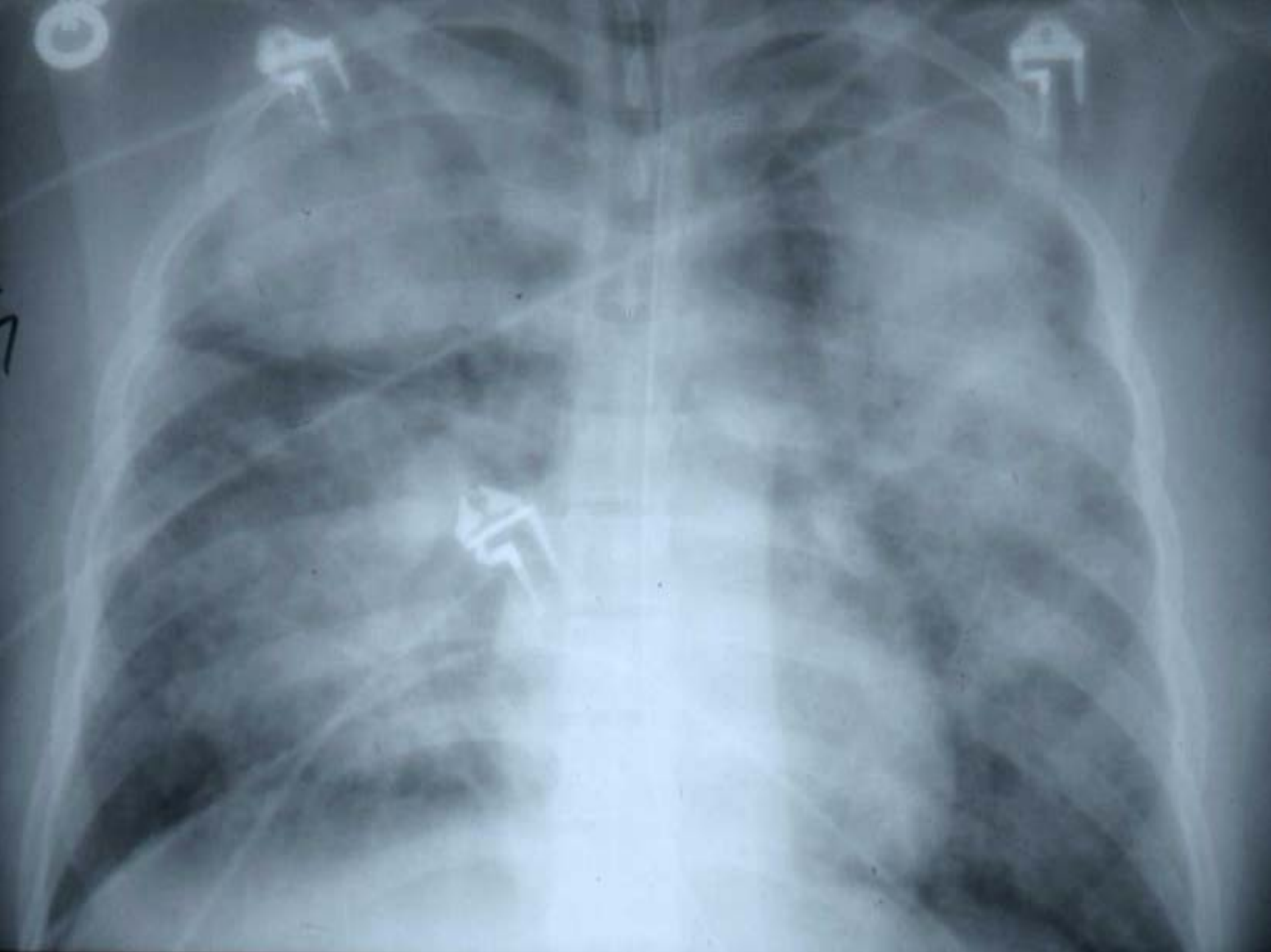
KAYENTA
TUBA CITY
CHINLE
SHIPROCK
CROWNPOINT
FT. DEFIANCE
GALLUP
WINSLOW
NAVAJO NATION U.S.A.
I.H.S. — INDIAN HEALTH SERVICE
SERVICE UNIT MAP
LEGEND

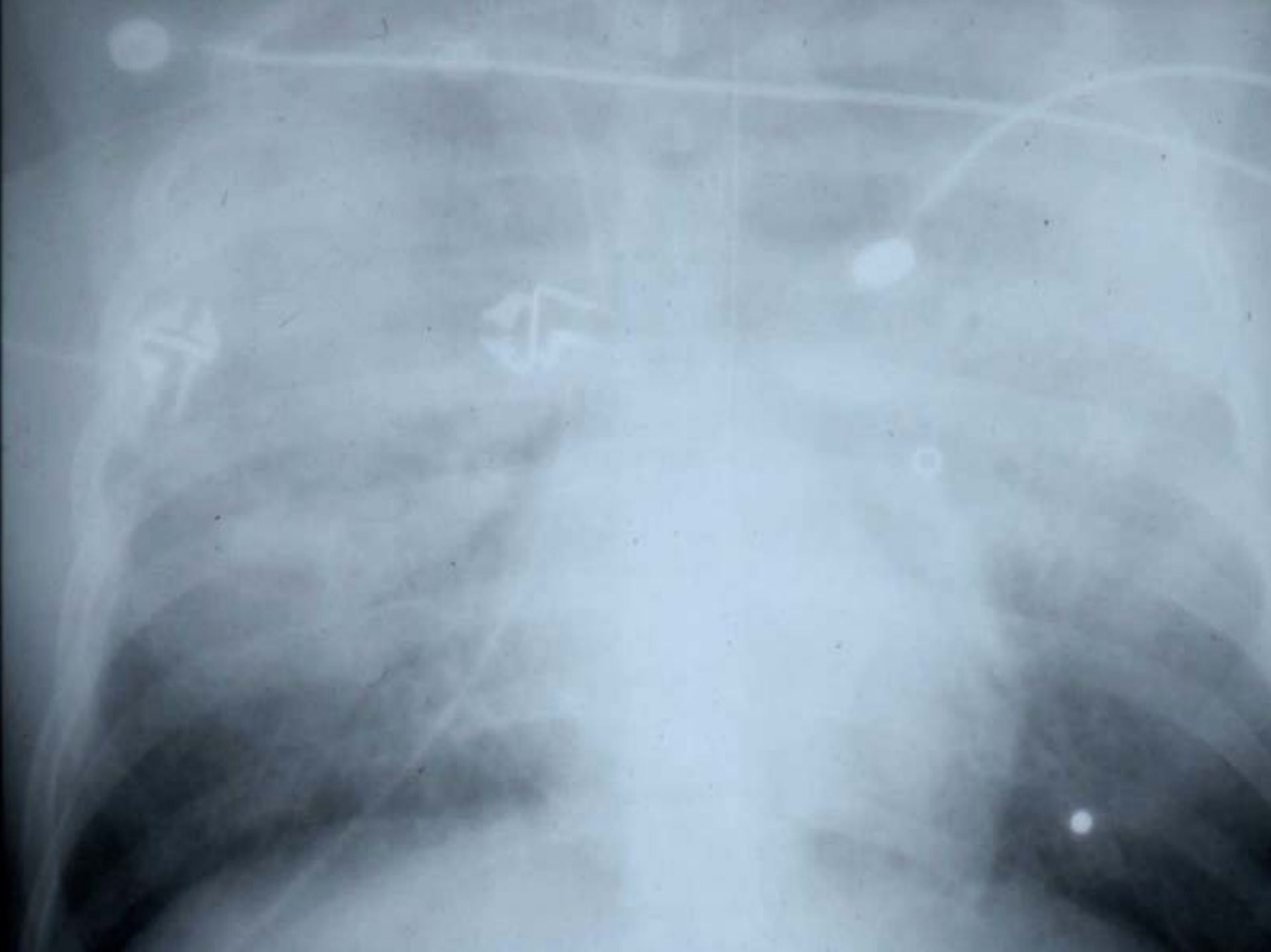


Index Cluster









Disease Conditions in the Differential Diagnosis

Bacterial	Viral	Environmental
Plague	Influenza	Paraquat
Tularemia	Adenovirus	Phosphene
Anthrax	Parvovirus	Phosgene
Legionella	Coxsackie	DNP
Leptospirosis	RSV	Metal fume fever
Chlamydia	Hemmorhagic Fevers	Toxic Oil Synd.
Mycoplasma		Polymer fume fever
Brucella		
Ehrlichiosis	Fungal	New Agent
Q fever		
Rickettsia		

Laboratory Studies Done on Initial Patients

Complement Fixation

- Adenovirus
- Mycoplasma
- Influenza A,B
- Parainfluenza 1,2,3
- Chlamydia
- RSV
- Colorado Tick Fever
- Rickettsial Panel

Bacterial Cultures

AFB, legionella, fungal, mycoplasma, chlamydia

Viral Cultures

Enterovirus, adenovirus, coxsackie, influenza, RSV, herpes

Tissue Examination

Bone marrow, lung tissue, other

Conditions Remaining in the Differential Diagnosis

Influenza

Viral Hemorrhagic Fevers

New Agent

Desert Mystery: Death Toll at 10

"We have not been able to identify any place where people have gone or any gathering as common. Nothing really fits ..."

– Dr. Ron Voorhees

It's an Epidemic, But 'Nothing Fits'

ALBUQUERQUE JOURNAL

STATE

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DESERT MYSTERY:
DEATH TOLL AT 12

Two Cases Turn Up Off Reservation

Similar Cases Found in 3 States

No Connection Found To Four Corners Area

By Ray Graham

TUESDAY'S DEVELOPMENTS

Patients Found In Silver City, Albuquerque

By Leslie Linthicum

ALBUQUERQUE JOURNAL

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DESERT MYSTERY

Rodent Virus Suspected in Illness

Report Called Preliminary But Possibly Important Breakthrough

ALBUQUERQUE JOURNAL

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Deer Mouse May Be Illness Culprit

Tests Show Rodent Is Likely Carrier

By Ray Graham

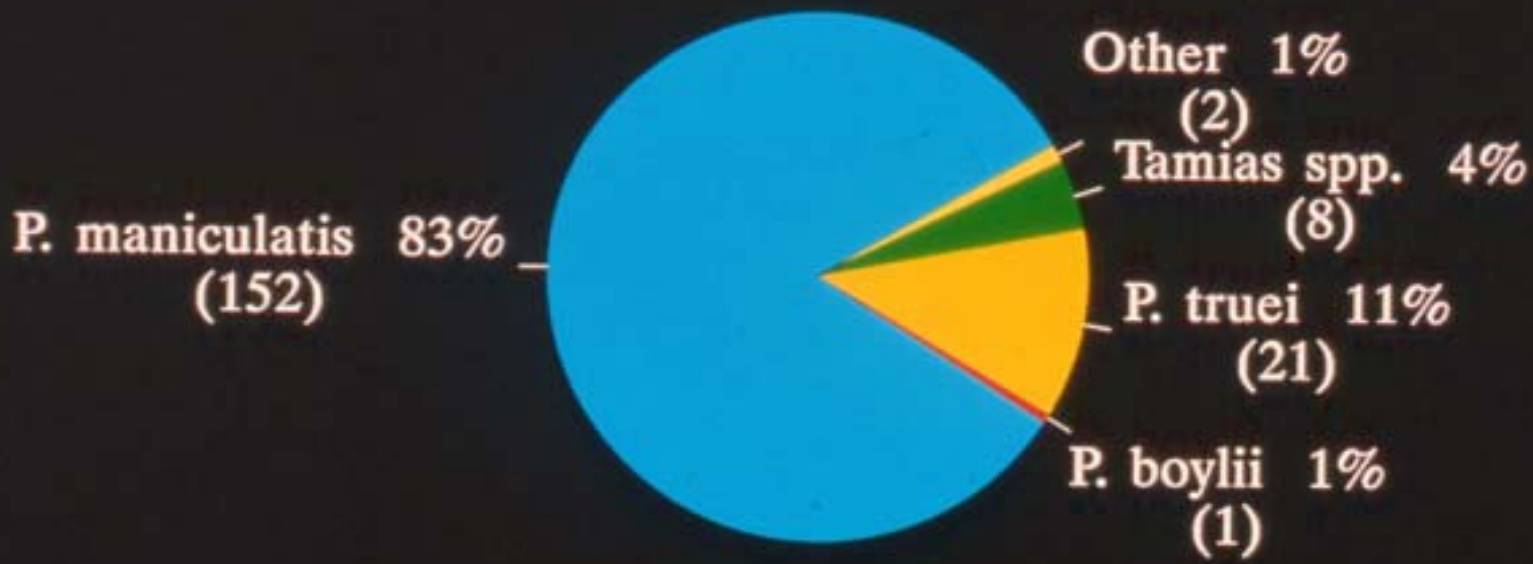
Hantaviruses

- Enveloped RNA virus, family Bunyaviridae
- Chronic, asymptomatic infection of rodents
- Horizontal transmission among rodents
- Excreted in rodent urine, saliva, feces
- Worldwide distribution
- Susceptible to many disenfectants

Hantavirus
Transmission to Humans

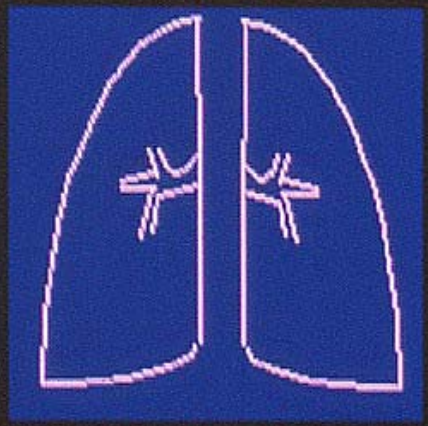
- Aerosolized rodent excreta
- Increased with rise of rodent population.
- Infections in lab workers with <5 minutes in same room with rodents.
- No person-to-person or nosocomial spread reported.

Rodents with Antibodies to Hantavirus
Case-Control Trapping, 1993
By Species

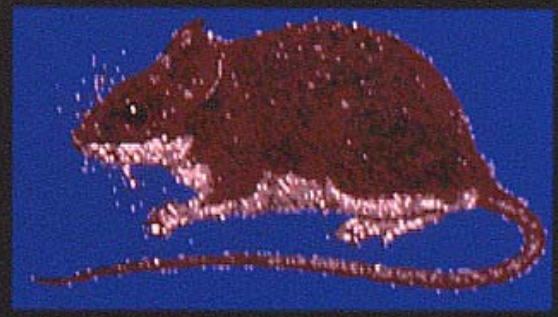


Other species: 1 *Mus musculus*, 1 *Spermophilus spp.*
Source: CDC

Human and *Peromyscus* Hantavirus: The Same Virus?



Human (autopsy) organs



Deer mouse organs (trapped at site of case)

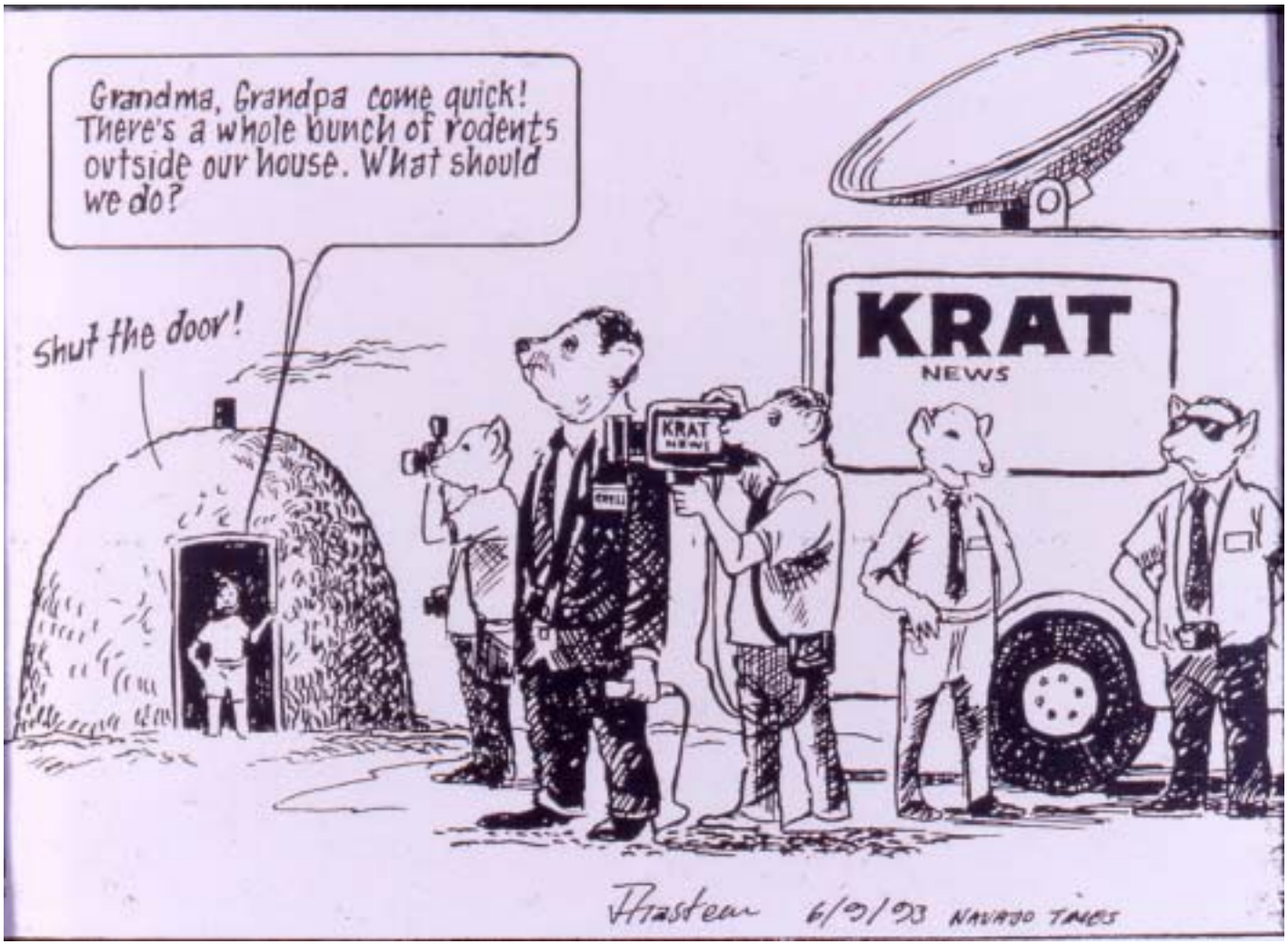
PCR amplify
Sequence
Compare Sequence

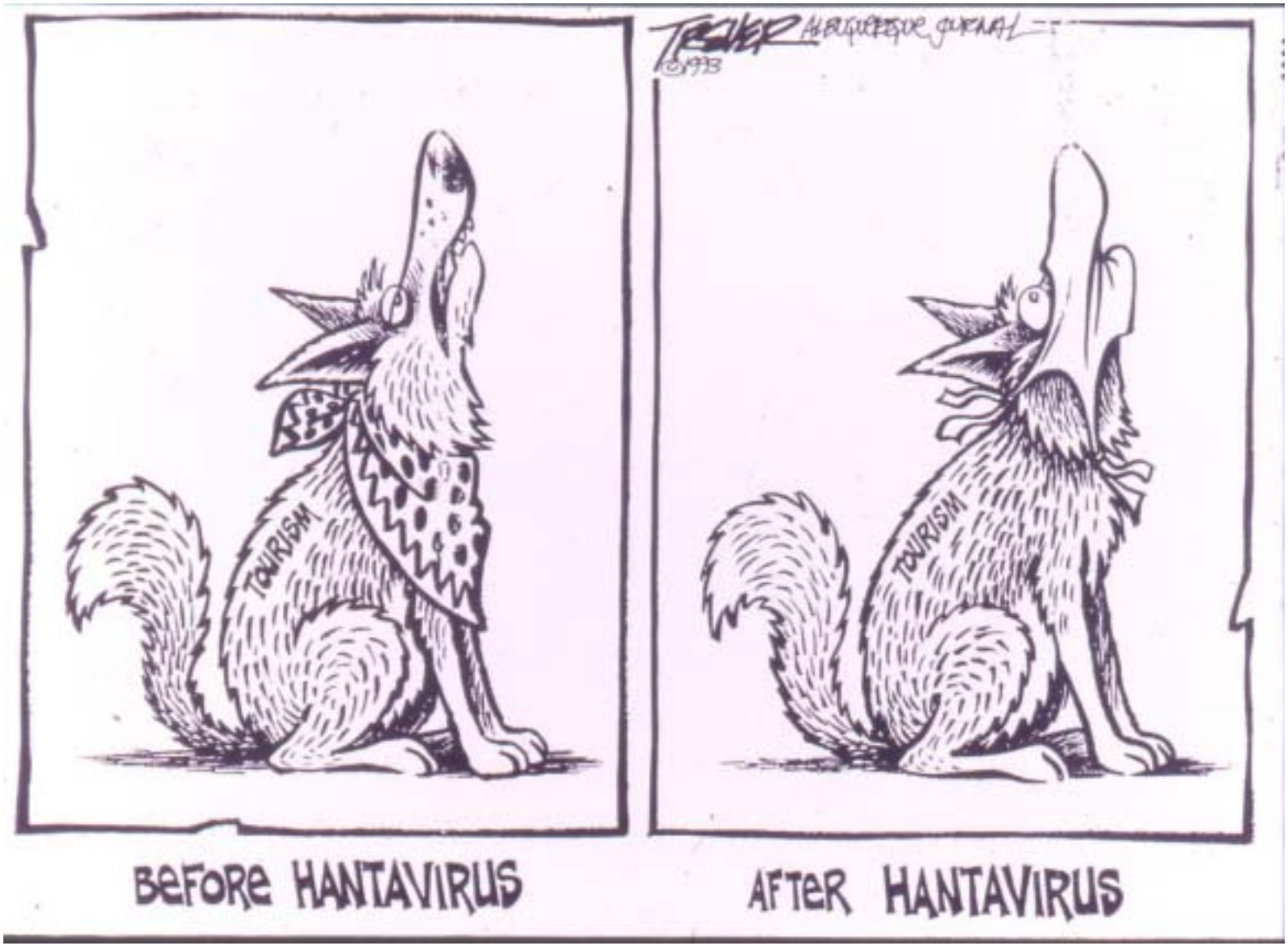
Human: ...TACGACACCAACATGTGAGTAG...

Mouse: ...TACGACACCAACATGTGAGTAG...

Conclusion: Humans and mice are infected by the same virus

NO NEWS
MEDIA
ALLOWED
NEWSPAPER
TV RADIO


Grandma, Grandpa come quick! There's a whole bunch of rodents outside our house. What should we do?
Shut the door!
KRAT
NEWS
KRAT
Hrastar 6/9/93 NAVAJO TIMES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TOURISM
TOURISM
BEFORE HANTAVIRUS
AFTER HANTAVIRUS