# South American Mummies Reveal 'Modern' Diseases

National Geographic News Service

"Montezuma's revenge" was a South America ailment thousands of years before the first tourist ever came down with this notorious gastrointestinal complaint.

This is part of a profile of the health and life of the people who lived as much as 2,500 years ago in what is now South America. It is being detailed by Dr. Marvin Allison of the Medical College of Virginia in Richmond.

He and a team of pathologists. supported by the National Geo-graphic Society, have filled in their picture of these Indians, many living and dying long before Columbus and the Spanish conquest. They have performed autopsies on hundreds of mummies buried in the desert coastal valleys of Chile and Peru.

As a result of six years' work, they have also found that:

Tuberculosis threatened the peoples of the New World long before the arrival of the white man. contrary to previous belief.

Pneumonia and respiratory diseases were the main cause of death in Latin America 3,000 years ago, just as they are there today.

Drugs were part of the scene before Columbus, some peoples using narcotics not for pleasure but apparently for religious reasons.

of every two warfare victims with fractured skulls survised head operations, though the surgeons had only obsidian knives and no anesthetic.

Dr. Allison-not a physician, but a Ph.D. and professor of clinical pathology-has 30 years' experience working in Latin America, speaks Spanish fluently, and discourses in

## Deaths

funeral for Lacy Graham. of Rt. I. Raeford, who died Sunday, will be held at 4 p.m. Thursday in Friendship Grove Baptist Church by the Rev. R.L. Douglas. Burial will be in East Freedom Cemetery.

The family was to be in Buie Funeral Home 8-9 p.m. Wednes-

#### **HIGH BLOOD PRESSURE IS** HELPING TO KILL one-seventh of **AMERICA'S** ADULTS. AND THEY DON'T EVEN KNOW IT.

very very thousands and die from heart the first stand kidney that the dity their High Hood Excoure Most didn t Known with dit Soisce at it is at visit a clinic It's 11. It is ther to know if you buys H. It. Blood Pressure are from Landrance

HIGH BLOOD PRESSURE Treat it ... and live.

detail on the region's history and

culture.
The National Geographic Society has helped support Dr. Allison's work with \$63,000 in grants. including a planned project of excavating 2,500-year-old Mass burial mounds in Chile's Africa

He and his co-workers frequently acted like medical detectives as they reconstructed violent deaths and accidents of hundreds to thousands of year ago. They found abundant evidence because the victims' bodies were mummified. dried quickly by the sun as it baked the graves--small chambers in the ground over and sealed with sticks and dirt.

Theoretically, by adding water the entire body could be restored to about the way it looked when buried, Dr. Allison says, "and you could perform an autopsy on them just like you could on a modern person.

In practice, he says, "we have rehydrated a hand, an arm, some internal organs," using a technique developed with egyptian mummies.

Examination of some mummies gastrointestinal tracts revealed amoebas and bacteria that are causes of common intestional illness-- the GI complaint that tourist today often call "Montezuma's or Atahuallpa's revenge" in memory of the Aztec and Inca emperors double-crossed and slaughtered by the Spanish conquistadors.

As long as people were wandering around fishing and hunting and shepherding animals, the gastrointestinal diseases did not seem to by very common." Dr. Allison said.

But once they settled into a village environment, the health problems that arose from the contamination of the water supply and the close contact from living in a village probably gave rise to the start of today's epidemic-type gastrointestinal diseases.

Tuberculosis was a problem, too. The "great white plague" of the Industrial revolution in Europe killed Indians in great numbers when it was introduced into the United states. But, despite belief, B already was prepared in the New World. "Tuberculosis was definitely a

disease native to the Americans before Columbus and the Vikings," said Dr. Allison, who has found at least 10 cases, the victims dying as

long as 2,500 years ago.

The first case found, a 7-yearold-boy with generalized TB that also had severely crippled his spine. was seated in a custom-made. comfortably padded orthopedic stool, evidence that "show, somebody lived him" at the time when cripples and the chronically ill

often were harshly treated. Dr. Allison says he suspects tuberculosis in all forms probably was one of the most common diseases of the time and a leading cause of death.

Examination of the mummies' lungs showed they were the main target of lethal disease. As a result, Dr. Allison says it is safe to say." rural Latin America today the cause of death has not changed in the last 3,000 years. It is still pneumonia and respiratory disease in general."

Evidence of drugs, no strangers

to primitive peoples, was found buried in graves with some of the mummies. Kits perhaps includ-ed an inhaler--a bird's hollow leg bone--to sniff a narcotic powder into the nose, where it would be

absorbed quickly through the mucus membrane. Drugs were not used for pleasure. Dr. Allison says, but as part of "a religious-type ceremony probably associated with some form of worship." Pre-Columbian Indians, he says, may have used drugs as they are used in some parts of Peru today: witches making psychological evaluation of patients while in a drug-induced

"Of all operations for head injuries in the entire prehistoric world, perhaps 90 percent were carried out in the region of Ica in Peru--wtih a success rate of about 50 percent," DR. Allison said. Survivors of this surgery to remove bone fragments and relieve pressure on the brain were identified by new bone growth and other signs of healing in the mummies'

In at least two cases, the scientist ays, surgeons patched holes in the skull with rounded caps carved from gourds. Once a head plate was fashioned of gold.

Among the mummies were warriors who had recovered from remarkable injuries. One lived many years with an arrow head imbedded in his jaw, another with a large spear tip inside his healed-over chest. A victim with a jaw broken in two places, but "beautifully healed," is a puzzle because he defied starvation and pain yet kept his jaw tied shut for the bone

Occupational injuries and health hazards soared with the enslave-ment by the Spaniards. Dug-up remains showed frequent fractures of ribs and collar bones, consequences of disciplining kicks as the Indians were forced to kneel before their masters. "One woman had 13

rib fractures in various stages of healing," Dr. Allison said. Indians forced to work in silver mines died in large numbers. usually within six months of beginning work underground and in the smelters. If not killed in violent accidents, they died--as their bodies show--of an accumulation of dust in the lungs, which often triggered fatal TB and pneumonia. of poisoning by lead or mercury vapor during the smelting.

THE IMAGE MAKERS

Well, the primaries are over and

the national conventions lie just ahead. So get ready, friends, the

political medicine show is coming

to town again. And right into your

Politickin' ain't what is used to

whistle-stop tour, the chicken bar-

becue and political rally in the city park, and the debate between

candidates at the county court-

The name of the game now is "image-building" and opinion-

house.

Gone are the days of the

# **LAW For Laypersons**

DRIVING WHILE INTOXICAT-

ED We are all too familiar with the destructive power of intoxicated persons who drives an automobile on the highways of our state. The awesome power of the car, linked with the driver's limited coordination, can combine in a few seconds to cause years of misery, sorrow,

and guilt.

All states naturally have laws against driving while intoxicated. North Carolina's General Statistic provides that it is unlawful for any erson who is under the influence of intoxicating liquor to drive or operate any vehicle upon any highway or any public vehicular area within the state.

Many people who are arrested under North Carolinas' statute raise the question of what "under the influence" means when they say in their defense, "I may have been drinking, but I wasn't drunk." Being "under the influence" is generally taken to mean that a person has drunk a sufficient quantity of intoxicating beverage to cause him to lose normal control of his body or his mental faculties. Certainly, the mere odor of alcohol on the breath of a driver is evidence that he has been drinking, but the odor alone is not proof that he is under the influence of an intoxicating beverage. Similarly, the mere fact that one has had a drink will not support a finding that the person has been driving under the influence of an intoxicating

North Carolina's statute provides that the person who intoxicated must be "driving," which is usually interpreted to mean that the vehicle must be in motion. In a North Carolina case, evidence that a defendant was seated behind the wheel of a car which was stopped but which had the motor running was sufficient to prove that the intoxicated defendant had been

"driving" the car.

The words "motor vehicle" in the statute make us think of an automobile or a truck. Farm tractors, however, have been held to mean "vehicles" within public vehicular area.

You may have noticed that the statute includes not only highways. but also "public vehicular areas."
Obviously, the term "public vehicular area" considerably broadens what we think of as a highway. For example, it would be unlawful to drive under the in-fluence of alcohol on the grounds or premise of any service station, drive-in theater, supermarket. store, restaurant, office building or

shaping by way of the electronic

Harry Skornia wrote in his book, Television and Society. "The con-

public relations experts has reached a point where, if they are

provided with enough money, they

can virtually give a money-back

guarantee to get a potential can-

no longer elected, they are merchandised."

One of those public relations experts. Joseph Napolitan. ex-plained his main working assump-

"These, then, are the qualities

As the image makers treat us to

But image-building knows no

Then he added, "Candidates are

didate elected to office.

trol of the broadcast media

Things That Matter"

by Lucien Coleman

any business or municipal establishment providing parking space for customers. Even a driveway or street upon the grounds of any public or private hospital, college, university, school or orphanage would also come under the defini-tion of "public vehicular area."

Suppose you are not under the influence of an intoxicating beverage. but you are under the in-fluence of a narcotic drug. North Carolina's statute on driving while intoxicated would not apply, but there is a completely different provision in the General Statutes which does make it illegal to drive while under the influence of narcotic drugs.

"This article is written as a matter of general interest only. It is not to be construed as legal advise, and you should not rely on the state-ments made in the article to govern your actions in any specific case. If you have a particular question or problem, you should contact an attorney.

### **LEGALS**

RESOLUTION 1980 - 5

RESOLUTION NOTIFYING THE PUBLIC OF THE CITY'S IN-TENT TO ABANDON EASE-MENT UNDER AUTHORITY OF NORTH CAROLINA GENERAL STATUTES SECTION 160A-299

WHEREAS, the Governing Body of the City of Raeford desires to notify the public of its intent to abandon its easement over the below described real estate pur-suant to North Carolina General Statues Section 160A-299 and to call a public hearing at which time interested citizens may be heard on the matter.
NOW THEREFORE BE IT

RESOLVED by the City Council of the City of Raeford that a public hearing is to be held in the Council Room of City Hall in the City of Raeford at 7:30 p.m. on September 8. 1980 for the purpose of hearing from citizens interested in the closing of or abandonment of easements over the real estate described as follows:

TRACT 1

BEGINNING at a point in a ditch at the end of a culvert, said point being the most eastern corner of that tract of land described in Book 177, Page 183, Hoke County Registry, and runs S 31-30 W 30 feet; thence N 58-30 W 33.8 feet; thence N 80-00 E 45.2 feet to the BEGINNING, and being part of the tract described above.

BEGINNING at a point in the Eastern right of way of N.C. #211, said point being the beginning corner of that tract of land de-scribed in Book 177, Page 183, Hoke County Registry, and runs N. Hoke County Registry, and runs N. 89-00 E 95 feet to the Southeast edge of a new easement from Gentry to the City of Raeford; thence with the line of said easement, S 58-30 E 55.8 feet; thence with the line of said easement, S 58-30 E 55.8 feet; thence S 80.00 W 177.5 feet; thence S 89-00 W 137.5 feet to the right of way of N.C. 211 Highway; thence with said right of way, N 10-00 W 31.4 feet to the BEGIN-NING, and being part of that tract described above.
Adopted this 4th day of August

CITY OF RAEFORD BY John K. McNeill. Jr., Mayor

Ronald L. Matthews, City Manager

### CREDITOR'S NOTICE

Having qualified as executrix of the estate of William Conoly Hod-gin, deceased, late of Hoke County, the undersigned hereby notifies all persons, firms and corporations having claims against said estate to naving claims against said estate to present them to the undersigned on or before February 7, 1981 or this notice will be pleaded in bar of their recovery. All persons indebted to said estate will please make immediate payment to the under-

This the 7th day of August, 1980. Josie Adams Hodgin C/O Willcox & McFadyen P.O. Box 126 Raeford, North Carolina 28376

#### CREDITOR'S NOTICE

Having qualified as Executrix of the estate of Burnice Bland Bostic, deceased, late of Hoke County, this is to notify all persons having claims against said estate to present claims against said estate to present them to the undersigned on or before Feb. 7, 1981 or this notice will be pleaded in bar of their recovery. All persons indebted to said estate will please make imme-diate payment to the undersigned. This the 7 day of August, 1980.

Walta T. Bostic Rt. 2, Raeford, NC Hostetler & McNeill Attorneys at Law

Raeford, NC

**LEGALS** 

CREDITOR'S NOTICE Having qualified as co-executrix of the estate of William Martin Laton. deceased, late of Hoke County, this is to notify all persons having claims against said estate to present them to the undersigned on or before Feb. 7, 1981 or this notice

will be pleaded in bar of their recovery. All persons indebted to said estate will please make immediate payment to the under-This the 7 day of August, 1980.

Catherin L. Faircloth Patricia J. Laton Willcox & McFadyen Raeford, N.C. 28376

15-18C

PUBLIC NOTICE

CITY OF RAEFORD HOKE COUNTY NORTH CAROLINA

In the Matter of Zoning Vernon W. Brown, III and Mary Anne M. Brown.

You are hereby notified that an application is now pending before the Raeford Zoning Board of Adjustment asking the said Board of Adjustment for a conditional use permit, which will allow the applicant to locate a Mobile Home on a 150' x 200' lot. This property is approximately ¼ of a mile from Raeford City limits on S.R. 1458

Raeford City limits on S.R. 1458 off N.C. Hwy. 211. An application is now on file at the City Hall.

A public meeting will be held by the Raeford Zoning Board of Adjustment at 7:30 p.m., August 18, 1980 in the Council Chambers of City Hall. All interested citizens are hereby requested to attend this are hereby requested to attend this public meeting to express their views and opinions for the benefit

of said Board.
This public notice is to be published July 31, 1980 and August

Raeford Zoning Board of Adjust-

Jimmy R. Conoly, Chairman

EXECUTOR'S NOTICE IN THE GENERAL COURT OF JUSTICE STATE OF NORTH CAROLINA HOKE COUNTY

Having qualified as Executrix of the estate of Fairley Burke of Hoke County, North Carolina, this is to notify all persons having claims against the estate of said Fairley Purchas Burke to present them to the undersigned within 6 months from date of the publication of this notice or same will be pleaded in bar of their recovery. All persons indebted to said estate please make

immediate payment.
This the 16th day of July, 1980. Lessie L. Burke

Route, J. Box 154, Raeford, N.C.

IN THE GENERAL COURT OF JUSTICE BEFORE THE CLERK NOTICE OF SERVICE OF PROCESS BY PUBLICATION NORTH CAROLINA HOKE COUNTY

IN THE MATTER OF THE ADOPTION OF: TONYA ANNETTE VIRGIL BY: OPHELIA VIRGIL. PETITIONER

TO: JOE McDOWELL

TAKE NOTICE that a Petition has been filed in the above entitled proceeding. The nature of the relief being sought is as follows:

the Office of the Clerk of Superior Court of Hoke County seeking a judicial determination as to the abandonment of Tonya Annette Virgil by you, alleged to be her natural father for that you abandoned said child more than six months next preceding the institu-tion of this action.

You are required to make defense to such pleading not later than September 2, 1980 and upon your failure to do so, the party seeking service against you will apply to the Court for relief sought.

This the 10 day of July, 1980.

Juanita Edmund

Clerk of Superior Court

CREDITOR'S NOTICE

Having qualified as co-executors of the estate of Mary McPhaul Roberts, deceased, late of Hoke County, the undersigned hereby notify all persons, firms and cor-porations having claims against the said estate to present them to the undersigned on or before January 17. 1981 or this notice will be pleaded in bar of their recovery. All

persons indebted to said estate will

please make immediate payment to the undersigned. This the 17 day of July, 1980. Elizabeth M. Sugg John A. McPhaul

C/O Willcox & McFadyen P.O. Box 126 Raeford, N.C. 28376

