

Mad Cow Disease Can Kill You!

BY VANCE FERRELL

Where it came from

Why it is here

Why it will become epidemic



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by Vance Ferrell

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UN WARNS BSE RISK COULD BE GLOBAL—by James Blitz in Rome and Michael Mann in London, *Financial Times*, February 8, 2001.

Mad cow disease could spread to as many as 100 countries across the globe and should not be dismissed as purely a European phenomenon, the United Nations Food and Agriculture Organization [FAO] warned on Wednesday.

As **the European Union struggles to calm consumer panic** that has seen beef consumption fall by more than a quarter since October, the FAO urged countries that imported meat and bonemeal (MBM) or cattle from the EU to ban the feeding of MBM and increase surveillance to try to eradicate the disease.

“Our research suggests that at least 100 countries are at risk from BSE because of cattle or meat meal imported from Europe during the 1980s,” said Jacques Diouf, director-general of the FAO. “The regions that imported large quantities of meat meal from Britain during this period are the Near East, eastern Europe and Asia.”

The FAO’s warning will send shock waves through the beef industry in countries that still see BSE as an exclusively European problem.

The introduction of a cattle testing program across the EU has uncovered the first cases of the disease in countries such as Germany, which long claimed to be BSE-free.

The FAO is reluctant to spell out the individual countries that might be at risk. But Andrew Speedy of the FAO noted that **countries like Egypt, Iran, Iraq, and India imported MBM from the UK during the 1980s and have intensive livestock industries.** “So that is a situation we are worried about,” he said.

This study is an expansion of a 20-part tract set released in February 2001.

The following new material was not included in that five-part tract set:

- *A Reuters news release, dated January 28, 2001 (p. 26).*
- *Appendix 1: Nearly 400 Products Made from Cattle, Sheep, and Pigs (pp. 30-32).*
- *Appendix 2: Caution Regarding Some Herbal Products (p. 33).*
- *Appendix 3: Mad Cow Disease in U.S. Pigs (pp. 34-36).*
- *Appendix 4: Excess Manganese May Be a Causal Factor (pp. 37-38).*
- *Appendix 5: Human Waste Entering the Food Chain (p. 39).*
- *Additional added material will also be found on pp. 2, 4, 29, 32, and 40.*

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Introduction

“Again and again I have been shown that God is trying to lead us back, step by step, to His original design,—that man should subsist upon the natural products of the earth.”—*Counsels on Health*, 450 (1890).

“Vegetables, fruits, and grains should compose our diet. Not an ounce of flesh meat should enter our stomachs. The eating of flesh is unnatural. We are to return to God’s original purpose in the creation of man.”—*Counsels on Diet and Foods*, 380 (1903).

“Is it not time that all should aim to dispense with flesh foods? How can those who are seeking to become pure, refined, and holy, that they may have the companionship of heavenly angels, continue to use as food anything that has so harmful an effect on soul and body? How can they take the life of God’s creatures that they may consume the flesh as a luxury? Let them, rather, return to the wholesome and delicious food given to man in the beginning, and themselves practice, and teach their children to practice, mercy toward the dumb creatures that God has made and has placed under our dominion.”—*Ministry of Healing*, 317 (1905).

“Those who have received instruction regarding the evils of the use of flesh foods, tea, and coffee, and rich and unhealthful food preparations, and who are determined to make a covenant with God by sacrifice, will not continue to indulge their appetite for food that they know to be unhealthful. God demands that the appetites be cleansed, and that self-denial be practiced in regard to those things which are not good. This is a work that will have to be done before His people can stand before Him a perfected people.”—*9 Testimonies*, 153-154 (1909).

“Flesh was never the best food; but its use is now doubly objectionable, since disease in animals is so rapidly increasing.”—*Counsels on Diet and Foods*, 384 (1905).

“Animals are becoming more and more diseased, and it will not be long until animal food will be discarded by many besides Seventh-day Adventists. Foods that are healthful and life sustaining are to be prepared, so that men and women will not need to eat meat.”—*7 Testimonies*, 124 (1900).

“When will those who know the truth take their stand on the side of right principles for time and for eternity? When will they be true to the principles of health reform? When will they learn that it is dan-

gerous to use flesh meat? I am instructed to say that if ever meat eating were safe, it is not safe now.”—*Counsels on Diet and Foods*, 384 (1902).

“The light given me is that it will not be very long before we shall have to give up using any animal food. Even milk will have to be discarded. Disease is accumulating rapidly. The curse of God is upon the earth, because man has cursed it. The habits and practices of men have brought the earth into such a condition that some other food than animal food must be substituted for the human family. We do not need flesh food at all. God can give us something else.”—*Australian Union Conference Record*, July 28, 1899.

“Could you know just the nature of the meat you eat, could you see the animals when living from which the flesh is taken when dead, you would turn with loathing from your flesh meats. The very animals whose flesh you eat, are frequently so diseased that, if left alone, they would die of themselves; but while the breath of life is in them, they are killed and brought to market. You take directly into your system humors and poison of the worst kind, and yet you realize it not.”—*2 Testimonies*, 404-405 (1870).

“Often animals are taken to market and sold for food, when they are so diseased that their owners fear to keep them longer. And some of the processes of fattening them for market produce disease. Shut away from the light and pure air, breathing the atmosphere of filthy stables, perhaps fattening on decaying food, the entire body soon becomes contaminated with foul matter.

“Animals are often transported long distances and subjected to great suffering in reaching a market. Taken from the green pastures and traveling for weary miles over the hot, dusty roads, or crowded into filthy cars, feverish and exhausted, often for many hours deprived of food and water, the poor creatures are driven to their death, that human beings may feast on the carcasses.”—*Ministry of Healing*, 314 (1905).

“Very many animals are sold for the city market known to be diseased by those who have sold them, and those who buy them are not always ignorant of the matter. Especially in larger cities this is practiced to a great extent, and meat eaters know not that they are eating diseased animals.”—*4 Spiritual Gifts*, 147.

If you eat meat, you need to read this —

Mad Cow Disease is Real

— Here are facts you should know

Where it came from - Why it is here - Why it will become epidemic

There are many facts, and the facts are deadly. This food crisis cannot be underestimated. Indeed, the crisis is so immense because it has been ignored for so many years.

We will begin with a few definitions. Then we will survey the history of this health menace, from the 1940s to January 2001, and discuss the terrible implications of the findings.

We promise that you will not be the same after you have read this report. These facts are the result of painstaking research by prominent scientists on two continents, over a span of several decades.

The first part of this study will primarily focus on the massive cover-up which occurred in Britain, in an effort to protect the meat industry. These facts are given in detail, to alert Americans to similar dangers in the U.S.

PRIONS

In order to understand this, you need to know about prions, BSE, and CJD. First, we will consider prions.

Scientists always used to think that infectious diseases could only be caused by bacteria. But the discovery of prions (pronounced *pree-ahns*) changed all that. It runs contrary to all the experts had been taught in the universities.

Although prions cause diseases, they are not viruses, bacteria, fungi, or parasites. They are simply proteins! Proteins, by themselves, were never thought to be infectious. Organisms are infectious; proteins are not. Or, at least, they never used to be.

But it is prions which cause mad cow disease.

As we will learn later, in the 1940s, when re-

searchers began examining the cause of a strange disease in the South Pacific, they could not find any pathological cause.

By the 1970s, a variant of the disease had entered domestic and wild animals in Britain and America; researchers did not recognize the connection of this new disease with the earlier South Pacific disease which attacked humans. Once again, they could not find an infective agent.

It was thought that some kind of extremely tiny virus must be the cause—not a bacteria, not a microbe, but a virus, a sub-microscopic speck of life. **For decades, scientists had searched for unusual, atypical infectious agents that they suspected caused some puzzling diseases that could not be linked to any of the “regular” infectious organisms.** One possibility was that slow viruses—viruses that spent decades wreaking havoc in their hosts—might be the culprits, and these tiny viruses that were leisurely multiplying are hard to isolate. But the truth finally emerged. Here it is:

Researchers eventually, although reluctantly, accepted the astounding fact that proteins, alone, could be infectious.

These strange proteins, called prions, enter cells and apparently change normal proteins within the cells into prions just like themselves! The normal cell proteins have all the same “parts” as the prions—specifically the same amino-acid building blocks.

There is just one difference: They fold differently. What does that mean?

As soon as a new protein is assembled by other proteins from amino acids within the cell, it folds into a certain pattern. But prions are proteins which fold into a different, incorrect pat-

tern. That little difference renders them deadly. (For a fascinating discussion of how brainless proteins make more proteins from amino-acid parts laying around, read the present author's research report, "Proteins," in Pathlights.com.)

While other proteins always fold properly, prions are proteins which do not. That little variation makes all the difference—and it results in changes in the brain which produce holes—which look just like the holes in a sponge!

Prions cannot be destroyed by cooking, radiation, or any heat below 800° F.

SIX OTHER DEFINITIONS

We have explained what *prions* are. ***There are five other special words or phrases which need to be defined:***

1 - ***Bovine spongiform encephalopathy (BSE)***. This is better known as mad cow disease. It is an infectious and incurable disease which slowly attacks the brain and nervous system of cattle. Spongiform encephalopathy is Latin for "sponge brains."

2 - ***Spongiform encephalopathies*** is the name given to this type of disease in various animals and in man.

3 - ***Scrapie*** is the form of BSE which is found in sheep. The experts are divided on whether it is harmful to humans. But when the dead animals are fed to cattle, BSE is transmitted.

4 - ***Kuru*** was once epidemic in a certain tribe in New Guinea, because people liked to eat other people.

5 - By late 1994, a handful of people in Britain had died from the same spongiform human version, which by that time had been named ***Creutzfeldt-Jakob disease (CJD)***. This is the name for the mad cow disease, when it occurs in people.

6 - ***Alzheimer's disease*** is a non-spongiform disease. It figures strongly into the present discussion because there is clear evidence that many people, dying in America and elsewhere from *Creutzfeldt-Jakob disease*, are being misdiagnosed as the victims of Alzheimer's. More on this later.

In summary:

BSE: Bovine spongiform encephalopathy—This is the animal form of this disease. In cattle it is called **BSE** or mad cow disease; in sheep it is called **scrapie**.

CJD: Creutzfeldt-Jakob disease—This is the human form of the same disease. In New Guinea, the nationals called it **Kuru**; in the Western world, it is called **CJD**.

These words will be repeatedly mentioned. You need to understand that BSE is the animal form of the disease and CJD is the human form. In popular literature, they are both called "mad cow disease," or simply, "mad cow." In this study, when we speak of BSE, CJD, scrapie, or Kuru, we are talking about mad cow disease.

KURU IN THE 1940s IN NEW GUINEA

It all began in the Fore tribe, living in the jungle near Papua, southern New Guinea. That is where BSE, CJD—mad cow disease—originated.

It was an area unexplored by Westerners until the second half of the twentieth century.

Scientists, in the 1940s, puzzled over a strange disease in one tribe in New Guinea. The people there had a tribal ritual dating from the prehistoric past, in which they would eat their relatives, when they died, in order to acquire the mental and physical stamina they had while still alive. Women especially did this in order to increase their fertility. They thought it would help them have more children.

Scientists found that many of the people in this tribe were dying of a mysterious brain disease which they, the nationals, called "Kuru," because it made its victims act very strange before they died. Kuru was killing up to 80 percent of the women in the tribe.

No one knew when the disease first started. Because it occurred within families and mostly among women, researchers initially thought that Kuru was inherited genetically. But it has since been established that Kuru is infectious and was transmitted by eating the meat of those dead people.

Peoples in the South Pacific, as well as some other backward areas in the world, have had a long history of cannibalism. But the Fore tribe in New Guinea were remarkably consistent in their eating of dead relatives. **This practice, continued for centuries, eventually produced a**

horrible new disease.

WHAT THE SYMPTOMS ARE LIKE

Whether it be Kuru, BSE, or CJD, patients first show symptoms of mental changes, such as problems with co-ordination, recent memory loss, and slurred speech. Sometimes obvious twitching of muscles can be seen, the facial expression becomes fixed, and the person may stumble and fall over. Over the next few weeks, the person becomes confused and unaware, unable to read or recognize even close relatives. **The disease is very similar to Alzheimer's, yet the cause is very different.**

Years later, it has been discovered that **BSE in cattle, scrapie in sheep, Kuru in New Guinea, and CJD in the Western world all affect the same part of the brain!** It is the same disease, whether in animals or man.

The Western form of Kuru is Creutzfeldt-Jakob Disease (CJD). As a spongiform encephalopathy, it is a disease of the brain and always fatal. There is no known remedy for it. Once a person contracts it, nothing can be done to remove the prions from his body.

Here is an ominous fact about Kuru: Researchers discovered that **it could take as long as 30 years before the person became visibly ill.** The disease bores into the brain and nervous system very slowly; but, once established, it rapidly causes dementia and death. No treatment works. Postmortems show the brain to be sponge-like and full of holes, hence the name "*spongiform*." Thus the disease can work quietly, insidiously for years before any symptoms develop.

PRIONS ARE DUMPED

You might wonder how a cannibal disease from one little tribe in New Guinea could get to Europe and America. We are not eating people over here! Here is how it happened:

Scientists who examined Kuru, in New Guinea in the 1940s, brought tissue samples home to America and Britain for careful examination. But they found no antibodies and no disease germs of any kind. **There was no microscopic lens in the 1940s which could have identified the source of infection.**

It is now believed that BSE went into the food chain, beginning in Britain and America, when

those samples were disposed of. They were either flushed into the sewage system, tossed on garbage heaps, or washed down sink drains.

What those researchers did not know was that there was an infective agent present, and one which no heat, normally used in laboratories for cleansing purposes, could kill. Prions which cause BSE and CJD are not destroyed by anything less than 800 degrees F. heat! This is far higher than autoclaving. The only way their sinks, for example, could be cleansed—would be to put them in a high-temperature bake oven for an hour!

Those prions from the samples laid on the ground for a period of time until they were eaten by grazing animals in the Western world. Then they passed into the food chain.

Trillions of prions spread on the ground, waited for some low-grazing animal to come munching toward them. In England, it started with sheep; in America, with wildlife and sheep.

SCRAPIE IN BRITAIN IN THE 1970s

In the 1970s, it first appeared in the sheep herds of Britain. British sheepherders called it "*scrapie*" because the sick sheep had the strange habit of rubbing up against things.

Rams and ewes who had never met a cannibal started exhibiting an odd itch to scrape their heads and hides against fences,—even if the fences were barbed wire. Frankly, the herders said the sheep acted a little crazy.

There were no antibody markers visible at any time during the incubation period, so veterinarians saw no indication of disease. Sick ewes freely gave their illness to their baby lambs who carried the bug straight to human tables.

To this day, there is still no certainty whether sheep with scrapie can infect humans. But we do know that scrapie sheep can, when eaten by them, infect cows—which, when eaten by people, infect them. The facts are hazy, since human dementia deaths in the '70s were always ascribed to Alzheimer's.

So now we have the answer to part of the puzzle. **In the South Pacific, the disease was transmitted by cannibalism. People were eating their dead relatives. They contracted Kuru.**

Later, a new form of cannibalism would be started in the Western world,—that would

spread the “civilized” form of Kuru.

SCRAPIE IN THE U.S. IN THE 1970s

Mad cow disease (BSE) has been killing American sheep since the early 1970s, U.S. cows since the mid-1980s, and humans since at least the late 1980s. The reason it hasn't been made public is that those who had the facts chose to misinterpret them. There is an extremely important reason for this: It could bankrupt the beef industry.

Something was started in 1970 which, in the 21st century, would eventually destroy the U.S. beef industry and kill millions of people in Europe, America, and other nations which import beef from them. Here is what happened:

In 1970, the U.S. Department of Agriculture and National Institutes of Health (NIH) collected thousands of scrapie-infected sheep, examined them, and carefully isolated the diseased animals in pens in up-state New York. Once again, they found no bacteria or virus responsible for the problem.

But then, according to Howard Lyman, of the U.S. Humane Society (an ex-cattle rancher who was well-aware of what happened), **the NIH sold the sick animals at low cost to farmers across the U.S.A., who put them into their herds.** It was probably done as a way to help pay for the expensive scrapie research which had been completed. But it was the death knell of the meat industry in America.

Eventually as more sheep got scrapie and could no longer stand on their feet, they were then sold to rendering plants which powdered the carcasses and turned them into animal feed.

Upon eating the prion-loaded animal feed, more livestock contracted BSE. They, in turn, were made into more cattle, sheep, pig, and chicken feed. Which shepherd wants to spend \$500 for an autopsy on a dead animal, when he can sell it for \$100?

Did you ever hear of “feeder animals”? **In the U.S., there is an enormous industry based on turning cow corpses into animal feed, to be fed to “feeder cattle.”** One such product is called *Soylent Green*. These products are fed livestock, to fatten them faster. Because of its high protein content, it does this quite well. Other brands are also on the market.

Carefully consider the implications of this: **These “feeder cattle” are cattle raised on meat and soy beans. This turns cattle into cannibals!** This practice is so solidly entrenched in America that you can actually trade commodity futures on “feeder animals.”

Thus one part of an important division of the powerful livestock industry is doomed to eventually destroy the rest of it. Unfortunately, this will happen, even if they eventually wake up and stop the “feeder animal” business. The problem is the prions are now in the livestock, and each mother is passing them on to her young at the time of birth.

“It will not be very long before we shall have to give up using any animal food. Even milk will have to be discarded. Disease is accumulating rapidly. The curse of God is upon the earth, because man has cursed it. The habits and practices of men have brought the earth into such a condition that some other food than animal food must be substituted for the human family.”—*Counsels on Diet and Foods*, 384 (cf. 373-416).

BSE IN BRITAIN IN THE 1970s

Back in the '70s in Britain, the delegated “animal feeders” were the sheep who had died of scrapie. They were rendered into powder and put into animal feed. But the Brits were just copying American frugality, as they used their dead sheep to feed the living ones. **No one seemed to be concerned about the fact that the sheep, which had died of a mysterious disease, were being fed to healthy sheep which did not deserve to die the same way.**

So Brits happily ate their sheep, little realizing they were eating cannibals. The curse that destroyed the people in Papua was passing to them and, through livestock shipments, to the whole world.

As the years passed, British shepherders continued losing more and more sheep to scrapie. But they kept cutting their losses with cash for corpses.

Trusting British beef farmers bought hi-protein certain-death feed for their cows for the next 18 years. Because the UK had a much higher percentage of sheep than they had cows, every cow got a daily, heaping serving of kibbled sheep. And poor, trusting Brits ate a lot of the infected

sheep too. The British like mutton as well as beef. For the first time outside of New Guinea, humans began contracting prions in their brains.

It should be understood that neither farmers nor butchers fully recognized the problem. Keep in mind that, at beef slaughter time, the dementia generally had not fully manifested itself. The prions were in the animals, but they had not lived long enough to show the symptoms.

Even if they had, **it was not until 1974 that the top UK microbiologist/researcher, Dr. Richard Lacey, and his U.S. counterpart, Dr. Stanley Prusiner, set up their electron microscopes to study prion diseases.** Until they did that, researchers thought prion diseases were merely genetic in nature, just weird malformations which occurred from time to time in nature.

The truth is that **the damaged proteins (the prions) were not only injuring the bodies of the sick animals, but were passing into the chromosomes—and becoming part of the DNA of those animals and their descendants.**

BSE IN BRITAIN IN THE 1980s

BSE (the animal form of mad cow disease) has been epidemic in British cattle since the late 1980s. The first confirmed cases were reported in late 1986; but it is believed that the first case may have occurred in the county of Hampshire in 1985.

In 1985, British farmers noticed that an illness suspiciously like scrapie turned up in a cow. It was a Holstein dairy cow who started kicking, developed an extreme case of the jitters, then fell over dead. Her brain was examined posthumously, its Swiss cheese appearance noted, and the disease given the name “bovine spongiform encephalopathy” or BSE. For the first time, the disease in animals had been named.

In a cow, the bug caused more than just an itch to scrape against fences. **BSE was a true “Dementia” disease, like Alzheimer’s is for humans, i.e.** memory loss, motor function changes, loss of large movements like walking ability. Eyesight and the ability to make fine movements with the hands were lost, as well as spacial perceptions needed for parking a car etc. A lot of that is not crucial to a cow, but it was hard for the farmer

to milk Bessie when she was splayed on the ground, shaking and mooing.

A cow is a lot more valuable than a sheep. So beef farmers demanded answers. At first, nobody connected spastic cows with the scrapie sheep of the 1970s and certainly not with New Guinea cannibals of the 1940s. But **in 1986, a research professor of microbiology at Leeds University, consultant to the World Health Organization (WHO), Dr. Richard W. Lacey, announced that scrapie, BSE, and CJD were the same thing;** and that this beef disease was in the meat supply. **In addition, he not only said it could kill humans, but he warned that a wave of deaths would soon hit Britain.**

Immediately, the Establishment set to work to destroy Lacey’s conclusions, and even his character. He was said to be a shoddy researcher and opposed to the best interests of the British people. One publication called him “an airy-fairy, politically suspect vegan.” Another said he was trying to dismantle the 6-billion-dollar-a-year British beef industry.

The funding for Lacey’s research was canceled. But, refusing to give up, he warned that there would eventually be a fatal outbreak that would kill many Britains. In a nation whose economy was heavily keyed to beef production and its overseas export, he said people should stop eating beef and the newspapers should start warning people of the possibility of human infection. **Lacey went still further and said that 100,000 people in Britain were already infected.**

Something had to be done. Beef eaters were becoming worried and beef farmers were frightened. **Three things were done to solve the problem. First, Dr. Lacey was fired** from his research position at Leeds University. *Second*, the government established an Official Advisory Council. Of course, they left Lacey, the nation’s only expert, off the board.

Third, the government told the farmers not to worry, that while feeding powdered sheep corpses to live cows probably wasn’t a good idea, Brit farmers could do as they wanted. After all, had not the idea been given to them by American ranchers who regularly practiced “the grisly, fleshly humus pile” method for buffing up beef for huge profits.

The year was 1986. Brits happily went back to eating their cannibal-cattle burgers and steaks, and the beef farmers went back to their rewarding task of supplying them with scrapie-fattened cows to munch on.

Meanwhile, Richard Lacey set to work writing a book on the subject. It was with difficulty that he was able to continue his research; but fortunately, he already had a lot of data in hand. Some friendly researchers also provided secret help. We will discuss the findings of his book in more detail later in this report.

BRITISH BEEF STATISTICS: 1987 - 1994

In late 1987, 700 BSE-infected cows were reported in Britain. By the summer of 1988, the number had climbed to 7,000. Out of one side of their mouth, the experts said they were stumped. Out of the other side, they quietly passed a 1988 law making the use of sheep and bovine offal illegal. ("Offal" is the waste parts of an animal. It includes the intestines, manure residues, and diseased organs.)

But when Europe, Asia, and America heard about this law, they realized the livestock they had been importing from Britain was infected. Immediately they boycotted British sheep and beef, causing millions of pounds sterling profits to vaporize.

Unfortunately, this was a case of too little too late. **British livestock were already grazing in every country of the world, and had entered the breeding stock of nearly every nation on the globe.** The entire world had been eating imported British beef and lamb chops ever since the disease was solidly in place in the 1970s.

The world ban on beef and the 1988 law against grinding up sheep did not stop the progression of BSE in England. Cows kept dying. The number of infected dead cows soared from 1989's mere 7,000 to 36,000 in 1992. In eleven years, 160,000 British cows had gone four hoofs to the sky and there still was not an official murmur about human contagion—aside from Crazy Lacey whom no one took seriously.

As already mentioned, the first confirmed cases of the bovine form of the disease (BSE) were reported in late 1986; but it is believed

that the first case may have occurred in Hampshire in 1985.

By late 1994, the disease had been identified in nearly 150,000 animals and in just over half of all the cattle herds in Britain. Some scientists (including Lacey) have since stated that the only way to tackle the problem would be to destroy all herds which had cattle incubating the disease. The problem is that the ground would continue to have prions in it.

By the 1990s, deaths from the human form of the disease, CJD (Creutzfeldt-Jakob disease), began to enter the public press. More on that later.

THE SOUTHWOOD COMMITTEE

The British Government had been forced into an investigation it did not want! A lot of money could be lost. So it told expert scientists, including its own advisers, to keep quiet lest the hugely profitable meat industry suffer.

In May 1988, the government set up the Southwood Committee, to examine the risks of BSE to both animal and human health. Yet, amazingly, no experts on spongiform encephalopathies were appointed to that committee, and none were consulted! Lacey, of course, was ostracized. Although experts in their own areas, not one of the members of the Southwood Committee had ever done any research into spongiform diseases.

In June 1988 after the first meeting, the government, on the advice of the committee, ordered the compulsory slaughter and destruction of the carcasses of all affected cattle. But it was already too late. Between the date of the first known case of BSE in late 1986 and the middle of 1988, at least 600 obviously diseased cows (plus an unknown number of animals not yet obviously ill) had been slaughtered; and their meat had found its way onto supermarket shelves. **Since they received only half the normal price in compensation for the carcasses, the hard-pressed farmers were thus encouraged not to report suspect cattle. The real extent of the problem remained unknown.**

The second recommendation of the Southwood Committee was to set up another committee to do more research. But it announced that the problem was too big for them to handle.

Those learned men did not want to be ostracized, as Lacey had.

Elsewhere in the Southwood Report was the admission that spongiform encephalopathies were a danger to humans and stated: "With the very long incubation period of spongiform encephalopathies in humans, it may be a decade or more before complete reassurance can be given."

The Southwood Committee then stated their theory about the possible ways the disease could be transmitted. Eating the meat was listed as one of the least likely causes. While admitting that all cows had contracted BSE by eating, they were saying that people could not also get the human form of the disease (CJD) by eating. They were suggesting one rule for cattle and another for humans.

Two other general conclusions of the Southwood report were these:

(1) They declared that the risk of *vertical transmission* of BSE (that is, passing the disease from mother to calf) was non-existent. That has since been proven incorrect. Both cows and people who have a spongiform disease can pass it on to their offspring. This is a key point and of the highest significance. **Not only can cattle pass the prions on to their offspring, people can do the same.**

(2) Cattle would eventually be shown to be a "dead-end host"; that is, the disease would stop at cows but not infect other species. However, that theory would introduce the revolutionary, new biological concept of a non-infectious infection! **Cattle are not dead-end hosts. BSE has been spread from one species to another,** and this was known at the time the Southwood Report was issued.

The report added this ominous statement: **"If our assessment of these likelihoods (of possible human infection) are incorrect, the implications would be extremely serious."** Their assessments have been shown to be incorrect. And that means we are confronted with a terrible crisis.

THE TYRELL REPORT

A second report—the Tyrell Report—was dated just four months later than the Southwood Report, but was not released to the public until January 9 1990, 7 months after it had been printed. Its conclusions have been

largely ignored by the British Government.

For example, this report asked that the brains of cattle, normally sent for slaughter, first be checked to see which ones might have BSE. This would have shown how big the problem really was. **Not surprisingly, this has never been done, despite numerous requests from the UK Parliament.** The reason for not doing it was that it would be "too expensive." Too expensive for the people contracting the disease or for the meat industry? It was recognized that if consumers ever discovered they were buying infected meat, the meat industry would lose its vast profits.

The Tyrell Report also recommended monitoring all UK cases of CJD for 20 years (as a matter of "urgency"), to reassure the public that there was no public health link with BSE. At present, "monitoring" only means that a researcher checks death certificates for CJD! **No real investigation was ever planned because of what would be revealed.**

The Tyrell Report concluded with the comment that additional research was needed; and that current controls, to keep the disease from spreading, were not adequate.

All in all, the report was a fairly good analysis of the situation as it was in 1989. Unfortunately, many of the proposals it made were ignored by the government.

Officially, by this time the government was telling beef purchasers everywhere that it was not known whether the disease could pass from cow to calf, whether it was possible for other species to contract BSE, or whether the recent increase in sheep scrapie could be a possible cause for the increase in BSE cases in cattle.

The name of the game was to stall for time; all the while the citizens of the land continued happily chewing their beef burgers and steaks.

Although the official position of the government was that BSE was about to disappear; nevertheless, in April 1990, it quietly made the Tyrell Committee "permanent." **Leaders in the British Government knew they were sitting on top of a time bomb, and they hoped they would all enter upon retirement before it exploded.**

THE BAN ON ANIMAL PARTS IN FEED

In order to make the most money, the meat

industry throughout the Western world feeds meat to livestock. All leftover bits of animals from slaughterhouses, unsuitable for human consumption, are boiled up to produce fat and protein. The protein is placed in the animal feed.

Apart from the obvious high risk of different infections being passed on, **it seems strange that nobody had actually questioned the biological sense of forcing naturally vegetarian animals to become carnivores, eating the remains of other animals!** Both cows and sheep have several stomachs and long intestines, so they can digest grasses. They should not be given a meat diet!

In June 1988, the British Government imposed a six-month ban on feeding animal protein to cows and sheep. It was thought this was the most likely way the animals were becoming infected. In December, the ban was extended for 12 months, and laws stopped the sale of milk from cattle suspected of having the disease.

But banning infected feed did not stop the rise of BSE. Cases rose from 500 per month in January 1989 to 900 per month in December 1989.

The number of BSE cases per month rose from 800 in January 1990 to 1,500 in December 1990. Yet the Southwood Committee had predicted a maximum of 400 cases per month.

JUMPING THE SPECIES BARRIER

For four years, the British Government reassured the public that BSE could not infect other species. But tests carried out in February 1990 proved the opposite. **It was discovered that BSE could be transmitted to mice by feeding them contaminated meat, and it could be passed to other cattle by injection.** Cattle were no longer “dead-end hosts.”

The disease had never previously been reported in cats; but, in May of the same year, a domestic cat died from a spongiform encephalopathy. However, in spite of such evidence, the government continued to deny that spongiform encephalopathies could jump species. In fact, that is the very nature of the disease. But by the time 52 other cats had died in July, the government finally admitted they had contracted the disease through eating pet food. As this report

is written, over 80 cats in Britain of have died of BSE.

The question was no longer “Can BSE affect other species?” but “How many species will it affect?”

THE CRISIS IN BRITAIN DEEPENS

A month earlier, **in January 1990, trading standards officers in charge of the cattle yards revealed that infected cattle were still being sent to market** because farmers were only being given half of the normal price for their cows. In response, a Ministry official denied that BSE was finding its way into our food, but some people were becoming more worried.

In April 1990, Humberside County Council banned the use of British beef in school meals. **The number of known cases of BSE had passed the 10,000 mark. In April 1991, the Ministry of Agriculture predicted that a peak in the number of BSE cases would occur that year and the disease would disappear by 1994.**

But, by the end of 1991, 25,025 cases had been confirmed in Great Britain, providing the first indications that, despite government claims to the contrary, the disease was being passed from cow to calf.

MORE EVIDENCE OF SPECIES JUMPING

In 1992, BSE was transmitted experimentally to seven out of eight species of mammal, including pigs and marmoset monkeys. In four experiments, this was done by eating.

A puma and a cheetah were also reported to have died of the disease. **Evidence was mounting of an uncontrollable epidemic, with serious implications for humans.**

VERTICAL TRANSMISSION

By 1994, more than 17,000 cases of BSE were confirmed in cattle born after (after) the feed ban, with 500 cases known to have come from mothers which later developed BSE. This meant that BSE was infecting cows by means other than infected food. However, the government tried to explain this by blaming farmers, feed compounders, and renderers for breaking the law. They were accused of continuing to put ground-up sheep and cattle into cattle

feed.

But that was only an attempt to deny the fact that vertical transfer of BSE was taking place. The mother cows were passing BSE to their calves in the womb. ***The existence of vertical transfer means that the infectious agent must be in the cow's blood and will therefore be found in virtually all parts of the animal—all beef products.***

By 1994 the government had still taken no action to control cattle being moved from BSE infected herds to other herds, nor had they taken any other steps to control the epidemic. The total number of confirmed BSE cases exceeded 137,000 by the end of August 1994. This was more than six times the number predicted by the Southwood Committee in their “worst case scenario.”

In April 1994, the government finally admitted that cows did pass BSE on to their calves.

BRITISH PUBLIC LEARNS OF CJD DEATHS

People had been dying from the human form of the disease, CJD (Creutzfeldt-Jakob disease), for years. But it was not until the 1990s that news of it began creeping into the public press.

CJD claimed the lives of two dairy farmers who had tended herds with BSE infected cattle. The number of human CJD cases in Great Britain was nearly ten times higher than the annual number recorded by researchers 25 years earlier and twice as high as the number recorded five years earlier.

Vicky Rimmer, a 15-year-old Welsh girl, developed the symptoms of CJD, despite no family history of the disease or medical mishaps such as faulty blood transfusion. She was also extremely young, considering the very long period it normally takes for symptoms to show. This meant that the disease was most probably contracted from an external source, more than likely food.

A doctor from the CJD surveillance unit was sent to Vicky's home and, after examining the girl, told her mother not to make her daughter's case public. According to the *London Daily Mirror* (January 25, 1994), he told her she should think of the economy and the Common Market.

In 1993, World Health Organization (WHO) figures indicated a total of 250 suspected, and 117 proven, CJD deaths with the average age of the victims being 27 years (descending from the former CJD average of 63 years).

But the bell didn't stop tolling; 56 Brits died of CJD in 1994, followed by 42 cases in 1995.

In the summer of 1995, the Canadian Red Cross had a blood recall, when they discovered two infected Canadians had donated blood. But the press only wanted to talk about a sick bull whose owner refused to destroy him.

In February 1995, Dr. Richard Lacey, the British scientist who first predicted this crisis in 1985—and was fired for speaking up—finally published his bombshell book. More on this later.

After initially castigating Lacey's book, the November 1995 issue of the *British Medical Journal* suggested the possibility that people might get Mad Cow from eating beef. Three million Brits immediately quit eating beef.

In March 20th, 1996, Agriculture Minister Dorrell announced to the world that British scientists “suspected a link” between BSE and its human equivalent, CJD. A link between spongy brains in British cows and the even spongier brains in British politicians was at last officially on the record.

Dorrell's admission caused a furor which put photos of stumbling, cross-eyed, drooling cows on television screens across the planet and made England's Wimpys and McDonald's burger shops stop serving beef and begin marketing a soy patty (which they did for all of three days until they had some European beef flown in and started resupplying the real thing).

English schools immediately stopped serving beef in cafeterias. **All this furor shot American beef, grain, soy, and especially corn prices sky high in anticipation of a U.S. corner on the feed market.**

Staunch and patriotic politicians that they were, **Prime Minister Major and the German and Italian politicians ate veal chops for lunch in Turin as they haggled over the ban.** That recalled the experience of a few months earlier, when a Brit minister force-fed his gagging 4-year-old daughter a burger in front of the press corps.

The Royal Family stodgily continued serv-

ing beef at Buckingham Castle, recalling how, during World War II, they patriotically stayed in London dodging bombs alongside commoners.

All this was intended to shore up the British beef industry and keep the people buying its products. And it worked for quite a while. **The British people had put up with German V-2 rockets; surely they could live with little things like prions.** Besides, those fast-food burgers, doctored up with synthetic (coal-tar) flavors and colors, sure tasted good.

PUBLICATION OF LACEY'S BOOK

Finally, in February 1995, Lacey's book came off the press (although it carried a 1994 copyright).

If you want a copy of the book, here is the data: *Mad Cow Disease: The History of BSE in Britain*, by Richard W. Lacey, Cypsela Publishers, Ltd., Jersey, Channel Islands, 1994.

In his book, Lacey claimed there were already over a hundred dead Britains from mad cow disease. But **that implied that something was wrong with the British beef supply. So, immediately, two prestigious medical journals trashed the book in scathing reviews.** Not to be undone, the same week a new rock group came on the scene. Calling itself "*Mad Cow Disease*," it made its London debut to rave reviews. Screaming, clapping Brits were thrilled and happily returned to their cannibal beef dinners. McDonald's was relieved and life returned to near normal.

Year after year, people willingly eat junk, ignoring the fact that their bodies are made up of what they put in it.

STATEMENTS FROM LACEY'S BOOK

You should know that Dr. Richard W. Lacey was widely acclaimed, in the mid-1980s, as the leading microbiologist researcher in the British Isles—until he began warning about beef.

Here is his professional biography: M.D. at Cambridge, Ph.D. at Bristol. Specialist "in both child health and microbiology." He is currently Professor of clinical microbiology at Leeds University (they later rehired him) and a consultant to the World Health Organization for Microbiology. He has published over 200 papers in sci-

entific and medical journals and has won the Evian Health Prize for Medicine and the Caroline Walker Prize for Science. In 1986, he became an official adviser to the British Government as a member of the Ministry of Agriculture's Veterinary Products Committee.

Here are several significant statements from his book which we, who live outside of Britain, can learn much from:

1 - GOVERNMENT INACTION

It is clear that the British Government repeatedly did nothing about the growing mountain of evidence.

p. 80: "The definitive proposal [by the British Government] to study the human risk" in humans is to "check death certificates for CJD" over the next 20 years. "This is just about the total sum of research done by the UK Department of Health."

p. 117: "I just cannot believe that an honorable independent scientist will say: 'In order to find out how big the problem is we are going to see how many people die.'"

p. 97: "The whole story of the action (and inaction) by the [British] Government, following the Southwood and Tyrell Reports has been one of delays, obfuscation, and misinformation."

p. 58: "As far as I can ascertain, none of [the members of the Southwood Committee] . . . nor the chairman, had undertaken any research in the field of spongiform diseases." p. 59: "What was quite extraordinary about the composition of the [Southwood] committee was the omission of experts of spongiform encephalopathies and the failure of the committee, once appointed, to co-opt them."

p. 59: "The first confirmation of BSE [was] in late 1986."

2 - GOVERNMENT ACTION

The British Government repeatedly carried out one cover-up after another, so the public would not learn the truth.

p. xx: "The British Government [beyond much reasonable doubt] has at all stages concealed facts and corrupted evidence in mad cow disease."

p. 89: "The drop in price [of British beef

due to the BSE scare] would have been greater but for the intervention buying of unwanted carcasses at this price. These were subsequently stored deep frozen at considerable expense for the taxpayer.”

p. 154: “It looks suspiciously as if the [British] Government has massaged the figures by back-dating deaths to earlier years.”

p. 154: “[The Ministry of Agriculture’s] Transferring [of] some 1,993 cases to previous years will very conveniently give a false impression of a recent decline in the epidemic.”

p. 176: “From April 1, 1994, a new system of compensation to farmers was introduced,” which “would discourage the reporting of BSE suspects.”

p. 139: “In February 1992 [the Ministry of Agriculture changed] . . . the reporting and slaughtering procedures for BSE animals born after the feed ban.” p. 140: “This change in procedure . . . will distort the number of BSE cases.” “The numbers of animals confirmed, that were born after the feed ban, will inevitably fall.”

p. 58: “After publication of their [Southwood] Report, Professor Southwood was promoted to Vice Chancellor of Oxford University, Professor Epstein was knighted and Sir John became Lord Walton.”

3 - THE INFECTABILITY OF ORGANS

The British Government was careful to ban only the least profitable animal parts from sale. Yet BSE had been found in all body organs.

p. 85: “No action [was] taken over products containing these [11/8/89 banned offal] which were already available in retail outlets.”

p. 85: “In late 1989, virtually nothing was known about the distribution of the BSE infection in the animal . . . as far as the range of organs was involved.”

p. 17: “Several cases of CJD spread by blood transfusions.”

p. 85: “The range of offals removed is not comprehensive. What do brain, spinal cord, spleen, thymus, tonsils and the intestines of cattle have in common?” “They are of little commercial value.”

p. 86: “[Scrapie] infectivity was found in the liver, kidney and bones, sometimes at high levels.”

p. 86: “**The greatest risk could come from bones because the procedures used to concentrate and purify gelatin could also create a potent source of the BSE prion.**” [This would include bonemeal in food, *i.e.* calcium supplements, capsules, and gelatin products.]

p. 88: “The reason why researchers have found BSE infectivity in very few cattle organs . . . is that the mouse assay test that is used is too insensitive.”

p. 88: “With vertical transmission of BSE confirmed in 1993/1994, the infectivity of blood is implicit, at least as far as cattle are concerned.”

4 - EXPERIMENTS NOT DONE

The British Government repeatedly refused to carry out the necessary experiments which would have exposed the seriousness of the crisis.

p. 78: Despite the Tyrell committee recommendation, the experiments that “would have established the frequency of animals that were highly infectious, but not yet ill, that went into the food chain,” have not been done.

p. 79: “The official justification for not doing this research [‘despite numerous requests in the UK Parliament that it be done’] was that it was too expensive . . . Too expensive to know the scale of risk to the British public?”

p. 177: How about “feed[ing] milk from a BSE cow to a calf to see if any infectivity was transferable.”

5 - THE TERRIBLE DANGER

While the British Government dawdles, this terrible plague increases monthly, and more cattle and people are infected and destined to die.

p. 27: “As many as 30% of BSE infected carcasses [are not incinerated and] end up in landfill sites.”

p. 69: All cattle “known to be infected” should be destroyed by law; “but what about all those that are infected, but are not known to be because they are slaughtered before their terminal disease develops?”

p. 96: There is a government initiative “to slaughter and destroy all affected cattle.” Notice that they do not use the word “infected,” which “would also include the countless cases still in-

cubating the infectious agent, but not yet ill.”

p. 104: “There is no way to detect all such cattle and cows that carry the infectious agent but appear clinically normal.”

p. 118: The concern, that “if our worst fears are realized, we could virtually lose a generation of people,” “was based on the well-documented instances of almost 100% of all mink on a ranch succumbing to spongiform encephalopathy following eating contaminated feed.”

p. 180: “Many sub-clinically infected cattle . . . pass into the British food chain as meat every day.”

6 - VERTICAL TRANSMISSION

p. 78: “In almost every Ministry of Agriculture document from 1990-1994, vertical transmission was claimed to be exceedingly unlikely.”

p. 148: CJD “infectivity was [found to be] present in the placenta, in colostrum . . . and in cells within the umbilical cord.”

p. 174: “Over 11,000 BSE cattle have been born after the [contaminated feed] ban.”

7 - CREUTZFELDT-JAKOB DISEASE

p. 18: “Researcher have found an association between eating pork, ham, hot dogs, roast lamb and CJD.”

p. 6: “Pathologists are often unwilling to undertake postmortem examinations of patients considered as having possibly died of CJD.”

p. 8: About 95% of people who develop [CJD] . . . are aged between 40 and 75.” There was no “evidence of an abnormal gene causing the disease” nor any “contaminated hormones, grafts, implants or blood transfusions.”

p. viii: “The best guess is that ‘mad person disease’ could emerge an epidemic in Britain” within a very few years.

p. 145: “Virtually all mammals tested were vulnerable, so man is likely to be vulnerable.”

8 - RECOMMENDATIONS

p. 30: “Where a BSE case was confirmed, the entire herd should have been destroyed and incinerated, with restocking from BSE-free sources on *new* ground.” p. 95: Doing this, “would result in the deaths of six million cows.”

p. 175: The “estimated . . . cost of replacing the infected herds was 30,000,000,000 [pounds].”

p. 175: “There is also the problem of needing to house the new herds on fresh territory to prevent reinfection.”

COWS AND THE DAIRY INDUSTRY

BSE has affected all breeds including, significantly, Jersey and Guernsey cattle on their respective islands. Jersey and Guernsey are the best breeds of milk cows that money can buy. The black and white Friesian Holstein (beef) cows are the most commonly affected, simply because there are far more of them in Britain than any other breed. **The youngest case so far recorded of a cow showing the symptoms of BSE was 20 months and the oldest 18 years.**

The cattle industry in Britain is under constant pressure to produce more milk and dairy products at the lowest possible cost because the public demands it. To provide as much milk as possible, cows are often fed protein-rich concentrated food made from the carcasses of other dead animals that have been sent to stockyards (called knackery yards in Britain) or rendering plants.

Cows only produce milk when they have had a calf. After a nine month pregnancy, the calf is removed within a day or two of birth. A few months later, while still producing milk, the cow is artificially inseminated again. Cows have around three or four pregnancies before their milk yield begins to drop. **Each cow is eventually slaughtered at six or seven years old, even though its natural life span would be 20 years or more. Most parts of the cow are used to make burgers, sausages, pies, stocks, and pet food. Until 1989 in Britain, this also included the brain.**

More than 90 percent of BSE cases have been in cows rather than bulls, simply because cows live longer. Beef animals are usually slaughtered around three years old and veal calves at six months. As BSE appears when the animal is around four to five years old, **most beef animals are slaughtered before they are old enough to show symptoms, although they may have the disease.**

FACTS WORTH REMEMBERING

It is now known that BSE and CJD are just two aspects of the same disease, the one occur-

ring in animals, the other in man. **Here are important facts which you should know:**

The period between becoming infected and showing symptoms for spongiform encephalopathies can be long in relation to the life span of the animal or human involved. Scientists know that **research studies of Kuru in New Guinea revealed that frequently it takes as long as 30 years before the person becomes visibly ill with Kuru (which is Creutzfeldt-Jakob disease).** The disease bores into the brain and nervous system very slowly; but, once established, it rapidly causes dementia and death. **No treatment works. Postmortems show the brain to be sponge-like and full of holes,** hence the name “spongiform.”

The “mysterious agent” that causes spongiform encephalopathies is not just found in the brain! It has been found in many of the organs and tissues of animals. For example, cells from the spleen, thymus, and tonsils enter the blood and find their way to many organs, including the liver and bones.

The bones of old cows are one of the major sources of the protein gelatin, used in many foods from peppermints to pork pies. **The greatest risk could come from bones because the procedures used to concentrate and purify gelatin could create a stronger source of BSE.**

Confirmation in 1993, that the disease can be passed from the cow to the calf—established that transmission can be by blood. So **blood can also contain the disease.**

WHAT HAPPENS TO THE DISEASED COW?

In cattle, the first signs of the disease occurs when the cow is put under any slight pressure or stress. Movement to a milking station might induce fear, panic, and stumbling; and the infected animal may stand away from the rest of the herd, holding its head in an awkward posture. Despite a good appetite, the amount of milk she produces may drop and she usually loses a lot of weight.

As the muscles waste away, there may be twitchings, quiverings, and shaking. Strange behavior can occur, such as grinding teeth, and sometimes the moo is odd.

The cow over-reacts to touch and becomes very jumpy. Eventually, she will shake violently; stag-

ger; and, in the end, be completely unable to stand up.

It is the combination of a drop in milk and the fear that the cow will fall and be unable to stand again that makes the farmer call in the vet. If the animal does not recover, it is slaughtered and **the head (with its nervous tissue) is removed for examination; it is “officially” believed that this is the only infected part of the animal.**

This is unlikely, as flesh also contains nervous tissue. It also ignores the possibility of the disease being passed from mother to calf.

The rest of the cow’s body should be burned, but **as many as 30% of infected carcasses end up in landfill sites**—where they could be disturbed by tractors, bulldozers, dogs, or rodents. **BSE is an extremely strong disease; it remains infective even after years in the soil.** (Recent disclosures indicate that burning bodies could send prions into the air.)

When cattle are killed for food, only the head (and some other parts such as the spinal cord, spleen and thymus—“specified offal”) is removed. The rest is sold to the public. The official position of the Government is that people will not be at risk when they eat cows. So the flesh (containing infected nervous tissue) is eaten, and the bones are eventually made into gelatin which finds its way into many products.

People can contract CJD from eating the flesh of baby calves. This is another proof of transmission of the disease from the cow to the calf through the blood. **Those who regularly eat veal (baby cow meat) are 13 times more likely to develop CJD** than those who do not eat calf meat, according to the British Department of Health newsletter (*BUAV Newsletter, April 1995*).

SYMPTOMS OF CJD

The evidence is clear that humans are not immune from infection. Kuru, which originated in Papua, New Guinea, is definitely a form of Creutzfeldt-Jakob Disease (CJD).

If BSE can be transmitted to humans, then the resulting illness is expected to be like our own form of Kuru, which is CJD. Both are spongiform encephalopathies, which are diseases of the brain and always fatal.

As occurred in Kuru, patients first show symp-

toms of **mental changes**—such as **problems with co-ordination, recent memory loss, and slurred speech**. Sometimes **obvious twitching of muscles** can be seen, **the facial expression becomes fixed**, and **the person may stumble and fall over**. Over the next few weeks, **the person becomes confused and unaware, unable to read or recognize even close relatives**.

Towards the end of the illness, the patient is unconscious and not reacting to anyone; often having fits or jerking spasms; and is incontinent, blind, deaf, and speechless. Patients continue to be fed but are rarely placed on a respirator or given antibiotics for infections, particularly of the lung. It is the latter which usually results in death.

Many of these symptoms are similar to those of Alzheimer's, but CJD has a totally different origin.

MEDICAL PERSONNEL FEAR CJD

During the postmortem, extreme care must be taken because the disease is incredibly infectious. The pathologist wears a mask, goggles, gloves, boots, and a plastic apron; and any instruments that have been used on patients suffering from CJD have to be thoroughly sterilized. For example, the silver needles used for the EEG (brain examination) must be treated with high pressure steam for prolonged periods of time or put through six successive heat cycles in a sterilizer. Even then there is no guarantee of destroying the infection. **If contaminated instruments are used on another patient (which they will be if the person was not visibly ill with CJD), the disease can (and indeed has been) be transferred.**

CJD is so feared by the medical profession that they have refused to perform autopsies on patients suspected of dying from it. Some hospitals have even refused to admit patients suffering with it. **They find it far easier to just diagnose the victim as having Alzheimer's, without doing an autopsy.**

WHY THIS PROBLEM WILL GET WORSE

There are some reasons why this problem is going to keep getting worse. Here are far more than a dozen of them. Others are explained elsewhere in this study:

You can get BSE from any part of an animal. Mammals contract BSE, scrapie, and CJD by eating the flesh of other infected mammals. Blood, corneal transplants, and hormonal injections can also transmit it. This would include pituitary, thyroid, and insulin injections.

U.S. and British sheep were infected at the same time. Both U.S. and British sheep were infected simultaneously back in the 1940s from research waste discarded by scientists trying to figure out the cause of Kuru.

As early as the 1970s, both the U.S. and British scrapie sheep were being fed to cattle. Scrapie appeared in sheep in both the U.S. and Britain by the 1970s. In both countries, the dead sheep were sent to rendering plants which turned them into protein powder, which was fed to cows. That spread the disease widely.

Cattle are not checked for the disease before they are slaughtered. The USDA in America only studies the brain of 100 cows per every 100,000. That is an extremely small sample.

BSE/CJD cannot be detected during incubation. BSE and CJD cause no antibody response. When infection enters an animal or human, the victim's immune system shows no sign of fighting the infection as it does with bacteria, germs, and viruses. This is because the immune system can neither detect nor fight it. Scientists cannot use the antibody-search method to see if someone is sick, as is done with AIDS.

No scientist can tell if a cow or human is in an incubating phase of BSE/CJD. The only exception is brain biopsies, and that is not done until after death occurs. There are no tests, no genetic markers. Prions are not reliably found in urine. Prions can be seen in brain tissue, but you cannot open the skull of a live mammal to scoop them out.

It can take years before the full-blown disease appears. CJD disease takes between 10 and 50 years to eat away the human brain. In cows, death strikes as early as one year after exposure, as late as 8. If a cow whose milk you are drinking has it, her calf, sent to be a veal chop last winter had it when you ate him. An older cow may fall over dead with it, but mean-

while her infected calves have long since been slaughtered and served at dinner tables. The long incubation period means the farmer cannot see that the animal is ill.

BSE/CJD can be transmitted to one's children. Both cause a genetic mutation which is transmissible. Therefore, if you contract it, all your children will get it too. Sheep and cows pass it to offspring. Chickens can put it in their eggs. This is why the FDA has demanded that all donors to the blood supply answer the question, "Has anyone in your family died of Cruetzfeldt-Jakob?" The disease is 100% inherited and one drop of blood of a descendant of a CJD victim can infect all your descendants down through time.

People have been dying faster from CJD than earlier. It was once thought humans could incubate the disease for up to five decades without going into the final dementia stage, but lately British teens have been dying of it.

Farmers make too much profit selling dead cows for animal feed, for them to stop. Farmers have to pay \$500 in order to have an autopsy made of a dead cow. But they can sell it to a nearby rendering plant for \$100. Then it is processed into cow food.

The U.S. ban on animals in feed is being ignored. In America, there is now a ban on putting animals that died into feed. But it is well-known that it is being done anyway.

The USDA has not banned blood in animal feed. The U.S. Department of Agriculture banned diseased meat in animal feeds; but, to date, it has not banned putting blood from dead animals into the feed stocks. That link is contaminating the cattle of America today.

It is extremely difficult to kill prions. BSE and CJD prions cannot be killed the way we fought the plague, cholera epidemics, or ebola—which is generally done by burning bodies. BSE/CJD is passed on by means of prions, which are proteins that degrade at 800° F. That is far higher than the temperature which would reduce them to ash.

Infected meat should not be burned. Burning is a bad idea, as prion molecules go up in the smoke, airborne and fall back on the land. Britain is now considering burning 5 million cows soon, which will lose the prions into the air, to fall back on the land and into lakes and rivers.

Prions infect every part of the body, not just the brain. Although BSE/CJD attacks brains, it is in every part of the victim. Therefore every part of the cow is affected. None of it should be eaten. This contamination cannot be removed by cooking.

Do not use blood meal in your garden. A British vegan woman caught CJD simply by dusting her roses with blood meal.

Thousands of cows are mysteriously dying in America. Since 1981, the United States has had thousands of "downer" cows. These are cows which have died mysteriously. Dr. Richard Marsh, a virologist on the Veterinary staff at the University of Wisconsin at Madison, says he has seen 100 cases of BSE in America between 1981 and 1989. If the prions entered U.S. beef 15 years ago and have been multiplying ever since, a million cows could be infected. In order not to disturb the public, the fact that so many cows are dying is being kept from them.

More on the "downer cow" syndrome in America. Massachusetts Institute of Technology and the National Institutes of Health first explored a connection between BSE, animal foods and dementia as far back as 1981, when American cows began to come down with a mystery disease known as "Downer Cow Syndrome," suspiciously like BSE. Many of the downers had previously exhibited symptoms of the jitters, others just suddenly dropped dead. Their brains were fed to mink who quickly manifested Mad Mink disease. In any case, downer cow corpses revealed BSE brain pathology; yet not a peep came from these scientists, not a whispered word to the farmers to stop rendering sheep into cattle feed, not a warning to the public to stop feeding beef to children. Since then, American farmers were allowed to sell sheep corpses for 28 years and cow corpses for 17.

CJD deaths are occurring now in America, but they are being mislabeled as Alzheimer's. CJD mortality figures hide behind the skirts of Alzheimer's. Some U.S. doctors know the truth yet haven't blown any whistles. The U.S. veterans hospital in Pittsburg autopsied 53 sequential Alzheimer's victims. Sampling #1 showed 5.5% had died of CJD; sampling #2 showed 6.3% had died of CJD. Alzheimer's death tolls are doubling and tripling in America, but this is not char-

acteristic of a genetic disease. The rate of genetic diseases does not continually increase. People dying of CJD are being diagnosed as having Alzheimer's. That is why there are no CJD (mad cow) human deaths in America. A related problem is that labs will not test patients suspected of having CJD.

Private labs are afraid to let CJD tissue in the door to be examined. They would have to burn down the lab in order to be certain they had cleansed it of the prions. Dr. Richard Deandrea, a Los Angeles physician, who has studied CJD and BSE extensively, tells of his first CJD patient. After her death, which featured symptoms atypical of Alzheimer's (fingers numb, blindness, slurred speech, weak knees), Deandrea dogged the Center for Disease Control (CDC) in Atlanta for a pathologist who would provide him with an autopsy to see if it might be CJD. CDC evaded his phone calls for three weeks. Finally, a female CDC staffer told him that off the record—she would deny it later—“CJD is an issue no pathologist will deal with, a virtual death sentence to a lab. A well-trained pathologist knows the quarantine would never be lifted. You couldn't sterilize the lab to OSHA protocols. It would have to be gutted, incinerated. Forget it. Your patient died of Alzheimer's.” So there may be CJD deaths, but there are not likely to be many CJD death certificates.

If you die of CJD, you will officially be listed as an Alzheimer's victim. Because no laboratory in America will knowingly do an autopsy on anyone suspected of having died of CJD. That Pittsburg hospital would not have made those autopsies if the staff had known they were working with CJD! The problem is that the prions cannot be eradicated by normal methods. One researcher said that, while we keep eating our burgers, officially on all our death certificates we are going to die of Alzheimer's, not CJD. That Pittsburgh veterans hospital sampling never hit the major news wires.

Beware! BSE cow parts could be in more products than you thought possible. Gelatin capsules, used to enclose vitamins and minerals, come from cows. Break them in your mouth and immediately spit out the gelatin. Glandular supplements from animals come from cattle or pigs. The glue on your envelopes

and postage stamps comes from dead cows.

Even more than AIDS, BSE is the most prevalent, virulent disease to hit this planet since the plague. You can only avoid it by refusing to eat anything which contains meat. Forget ebola which kills you so fast you can't move ten feet and give it to anyone else, an epidemic which trained medical personnel can rather quickly eliminate.

Scrapie sheep are fed to feeder cows, which are then fed to dairy cows and beef cattle. That is how the USDA gets around the prohibition on feeding scrapie sheep to the cows you eat! Ted Koppel interviewed Dr. Richard Marsh on Nightline a year ago. It went like this. Koppel: But we (in the U.S.A.) don't feed sheep brains to cows, do we?” Marsh blinked. “I don't know where your information comes from, but we do.” He was instantly cut off by a commercial and did not reappear that night. The truth is, Virologist Marsh, a seasoned veterinarian, knows of what he speaks. He observed this problem in Wisconsin, from 1981 to 1989. Dead sheep were fed to feeder cattle, which, after fattening, was used to feed thousands of other cows who have bred thousands of animals.

Pigs and chickens are also fattened with Soylent Green. This is one of several types of powder from ground-up feeder cattle which are sold to farmers to fatten up their livestock. It consists of the remains of diseased animal parts and blood.

Prions like it in America. All the same, the beat goes on. On March 20th, 1996, the very day that Minister Dorrell lit the fuse on the Mad-Cow bomb in London, a Florida man died of CJD. His wife gave a TV interview describing his shaking knees, his lack of co-ordination, quick slipping into a vegetative state, followed by death and said that her husband had never traveled abroad in his life. Why would he have to? Prions enjoy the American climate.

How to silence the media. The beef industry frightened the TV networks into a news blackout on the subject. They are now afraid to discuss the subject. The Oprah Winfrey Show interviewed an ex-beef rancher who had seen U.S. sheep and cows dying of BSE. Immediately, beef dropped 150 points on the commodities market; and the beef industry, under the guise of

“Texas cattlemen,” sued Oprah for daring to openly discuss the subject. Even though she was found not guilty by a Texas jury, no television network is likely to talk about mad sheep and cows for awhile. *But the beef industry actually won.* They got their message across to the major networks: Tell too much about mad cow, and we will see you in court.

Small stations are more likely to reveal death toll statistics. In California, KCAL-TV News reported two recent CJD deaths, one in Stockton and the other in San Francisco. Dr. Richard Deandrea knew of a death in Lancaster, California, and another in Minnesota—all in the previous few weeks; yet the NIH claims it knows of only 11 CJD deaths since 1994.

Bypass protein animal feeds are deadly. Scientists who invented the “bypass protein” method of feeding livestock (taking the rendered corpse of a dead animal, grinding it into meat meal, mixing it in with grains) have turned an attractive planet into a potential graveyard. Scientists who turned healthy herbivores into cannibals may have shot themselves and humanity in the collective hoof. In order to make a lot more money in the short term, the meat industry will eventually destroy itself.

Feeding diseased animals to grazing stock also produces other diseases in the people who later eat that livestock. Even if there were no prions lurking, when you feed an herbivore protein, its body produces *ptomaines*, which cause lesions or tubercles in its body. That means tuberculosis. In 1989, the National Association of Federal Veterinarians decided to create a “test-balloon” state. They allowed California to sell meat infected with tuberculosis, a practice illegal since 1906. TB immediately went up 36% in the sunshine state. We do not need any more test balloons.

Hormones sicken the livestock you eat. Bovine immune systems have been destroyed by several other common practices. One example is the massive daily injections of synthetic growth/lactation hormones which exhaust the cow who is chemically stimulated to give 40% more milk. It costs the dairy farmer \$400 a year for all the drugs and chemicals he has to inject or feed his cows. They are walking chemical plants.

Antibiotics are given to keep the weakened

livestock alive. All those medicinal drugs are necessary to ward off the multiple infections caused by the other chemicals given to the livestock. One problem leads to another.

And there is more. Consider the painful mutilation of cows with more than 4 teats. (Many have 8 teats; extras are amputated without anesthetics.) Then there’s dehorning, also done without anesthetics. Keep in mind the hormones of grief created in Bessie when her offspring is calf-napped on its second day of life. This is followed for 305 days while the milk intended for the calf is stolen by the farmer. That ends with a two-day starvation period (no food or water), to dry up her milk and get her ready to “calve” again. A happy cow would live 25 years on a happy farm. *A dairy cow is exhausted at 3 to 5 years of age.* Her reward: She is slaughtered and her poor, suffering corpse is eaten by humans as burger.

The Prusiner Report. The definitive U.S. report on prions was written by a leading prion researcher, Dr. Stanley Prusiner. He is a professor of neurology and biochemistry at the University of California School of Medicine, in San Francisco.

Although his large study goes into some depth on the habits of prions, he never once mentions the danger of eating meat. Unlike Dr. Lacey, Dr. Prusiner remained politically correct.

Hiding behind Alzheimer’s. The puzzle pieces have stayed in the box; because, since the 1970s, CJD has been able to hide behind the skirts of Alzheimer’s. The Alzheimer’s Foundation itself seems to be clueless, saying that if current trends continue, 14 million people will have Alzheimer’s by the turn of the century. No mention of CJD from them.

Extrapolating from Pittsburg figures. It is possible to estimate the number of people who eventually will contract CJD. If, as the Pittsburg veterans hospital disclosed, 6% of Alzheimer’s cases are really CJD, in the next 4 years, 840,000 U.S. humans could die of CJD. If they were of childbearing age when they caught it, there is the possibility that millions of their offspring could carry it in their genes. Many people could eventually go into spasms, then idiocy and comas, costing their families and the health system \$120,000 per patient. Likewise with all their descendants, forever. Prions are not something to play around

with. Yet Western governments have done it for nearly 30 years.

A different estimate, based on the percentage of Kuru deaths. Among the Fore, the tribe of cannibals who got Kuru in New Guinea, only about one percent of the population seemed affected. This one percent figure suggests a genetic bias, and some genetic biases have been detected. This may serve as a model for predicting human death rates. Evidence suggests a one in a million rate of spontaneous occurrences among susceptible species. Once inserted into a food chain that recycles animal protein, one in a hundred may get it.

In America, that one percent would translate to well-over two and a half million slow, expensive deaths, a far worse epidemic than AIDS!

Genetic diseases do not double and triple their rate. Alzheimer's is a genetic disease, which is apparently doing something today that genetic diseases do not do: It is doubling and tripling its death toll. But it is so handy to blame Alzheimer's. Doing so helps the labs, because they do not want to autopsy anything savoring of mad cow disease. It helps the meat and fast-food industries; they can keep selling more burgers. It helps the television stations, because they do not want any more lawsuits. It helps the government, because they want it always said of them that they do everything right.

Silence is golden, even though it can be fatal. Admittedly, if even a whisper of prions in America was voiced, huge losses could result to the \$50 billion-a-year meat industry in America.

In Britain, five days after Dorrell's admission that CJD was caused by BSE and there was the faint possibility of danger in prime ribs, the entire European Union ordered its second ban on British beef exports (the first had expired). A \$6 billion-dollar-a-year beef export market collapsed in a single day. Loose lips sink world economies but silences go before apocalypses.

Getting rid of the whistle-blowers. Dr. Richard Lacey was not the only warning

voice. There were others: Haresh Narang, a microbiologist, employed by the Public Laboratory Services in New Castle, said CJD in humans came from BSE. Microbiologist Dr. Steven Doeller, said scrapie, CJD, and BSE were the same thing. But all the cries of the whistle-blowers were ignored.

Then, in 1995, when Dr. Lacey's book was printed, both the *British Medical Journal* and *New Scientist*, two of the most respected professional journals in England, declared the book unfit for the reading public. His book made the beef industry so nervous that, in December 1995, three more articles were planted in prestigious British journals: *The Economist*, *Nature*, and *New Scientist*, declaring that there was nothing to worry about; Lacey was dead wrong. Interestingly, all three articles were written by "Anonymous."

U.S. sheep are still fed to cows. The FDA and public health officials all know that diseased sheep that die are fed to cattle. In the U.S., approximately 200,000 animals are slaughtered daily.

RECENT DEVELOPMENTS

Chaperonins affect protein folding. *Chaperonins* have been discovered to be key chemicals which are implicated in possibly preventing the mis-folding of proteins which are the basis for BSE/CJD and Alzheimer's.

Nobel Prizes for mad cow research. A Nobel Prize has been awarded to Carleton Gajdusek for Kuru/CJD research. Another Nobel Prize has been awarded to Stanley Prusiner for CJD/Prion research.

Cows, Sheep, Pigs, Mink, and humans have all contracted the disease and died from it. It has been scientifically established that prions cannot be killed merely by boiling or cooking. Dr. Richard Lacey has predicted that, by the year 2015, each year over 200,000 people will die. As of November 10, 2000, the current "official" death toll is 81 in England and 2 in France (*AP News*).

Narang's testimony. Dr. Haresh Narang, a British microbiologist and CJD researcher, has come forward and said he first detected variant CJD in humans back in 1988. He

claims that he was ordered to stop work on BSE, in 1990, and subsequently “laid off.” He believes the British authorities have blocked and undermined research and detection efforts into the disease.

The crisis hits France. After ridiculing Britain for over a decade as a decadent society with infected beef, the mad cow crisis hit France in 2000; and it was forced to ban the sale of beef. Many French towns ban beef use in school cafeterias.

Germany also. Germany laughed at both nations for their sloven meat practices,—and then discovered that its own beef supply was infected. Germany has banned beef; and its meat industry is now like that of the French and British before it, in shambles. By January 2001, the German government had extended the ban to pig and deer farms.

Stealing from the zoo. The January 28, 2001, press reports that people are sneaking into the Berlin Zoo, at night, and stealing geese and other animals and eating them! They are afraid to buy meat at the grocery store. (But, very likely, zoo animals are fed the same rendered rations.)

If the situation wasn't so miserable, it would be funny. Read this:

“Nothing seems sacred any more as Germans, confronted by empty shelves at the supermarkets, go foraging for food. With BSE beef already off the menu, followed by sausages and now pork, filling a German belly is becoming nearly impossible. As hunger grips, no one, not even the dedicated Kreuzberg zookeepers, will object to a bit of theft” (*AP, from Berlin, January 28, 2001*).

“Everyone must get used to elk, reindeer, ostrich, crocodile and other exotic meats which have recently turned up at the shops, or go hunting” (*ibid.*).

Thyroid, insulin, and other medicinal hormones. As of late 2000, questions are being raised about medicinal thyroid, insulin, and other hormonal extracts,—nearly all of which are extracted from pork or beef. Natural thyroid extracts include Armour Thyroid, and synthetics include Cytomel and Synthroid. The natural ones are taken from the thyroid glands of animals, such as pigs.

How fast does death come? There are several types of variant prions. Some act quickly while others come to full term and produce death more slowly. This may be why some young people have already died from CJD. Recent research on chaperonins (biochemicals that assist in folding proteins) indicates that they may be involved in providing possible additional resistance to the disease. (As mentioned earlier, prion diseases apparently involve mis-folded proteins.)

Analyzing pre-Alzheimer's conditions. It would be helpful to know more about the symptoms which indicate the earliest onset of CJD. Here is data on the early onset of Alzheimer's, which is a similar disease: Scientists claim they could often detect the condition decades early, simply by noting the manner of speech and writing of a person. People with pre-Alzheimer's condition seem to rely more on lists and relationships than logic and cause-and-effect reasoning about the world. They also tend to write shorter, simpler sentences long before clinical neurological deficits become evident. (That research was done using nuns, comparing their original statements of intent to become nuns with their conditions decades later.)

Rendering only legal in America. In all other countries the “cash for corpses” practice is illegal. In the U.S.A., until 1997, it was entirely voluntary whether a farmer renders corpses; so, because they could not ignore free hundred dollar bills, they regularly sold their dead cattle and sheep to the feed companies. It was not until January 3, 1997, that the practice of rendering bodies and using them for animal feed was finally stopped. On that date, it was announced that offal could no longer be used to feed animals eaten by humans.

How to corner the market. In anticipation of all the American beef and feed that would be exported overseas, as a result of the British and European bans on their own beef, the U.S. cornered the world beef and feed market and U.S. grain futures soared to a 15-year high after Britain's admission of BSE in its cattle.

The British protest. But when the U.S. offered to supply them with all their beef, the British screamed that American beef already had plenty of the disease. Declaring that they originally got their sheep offal powder practices from the U.S. in the early 1970s, the British demanded that all American animal products be banned in their country. They also reminded the Americans that meat and bonemeal imported from Britain, from 1980 to 1989, was used for U.S. poultry feed!

U.S. chickens. In reply, the USDA said that they have never found a chicken sick with BSE. But the reason for that is the fact that U.S. chickens are killed before they are old enough to openly manifest the symptoms. No U.S. fryer lives long enough to manifest dementia, but it has lived long enough to give the disease to the person who eats it.

U.S. hunters dying of CJD. Between 1998 and the end of 2000, three young hunters in Western U.S. died from CJD. Other deaths are suspected.

WHO says CJD may have spread worldwide. On December 22, 2000, on behalf of the World Health Organization, Dr. Maura Ricketts issued a statement warning that "exposure worldwide" to BSE and CJD may have already occurred. The statement went on to say the WHO is going to convene a major meeting of experts and officials from all regions to discuss this problem. It will be held in Geneva in late spring 2001. This announcement followed a review of scientific evidence of several experts. "Concerns center on British meat and bonemeal exports in the 10-year period between 1986, when BSE surfaced in Britain, and 1996, when an export ban was imposed on British beef" (Reuters).

Over 90 deaths from CJD in Europe. Since October 1996, alone, over 90 people are acknowledged to have died of CJD, with more dying each year than the year before.

Blood donors banned. On January 17, 2001, the FDA ordered a ban on blood donations in the U.S. from anyone who has lived in Britain or Ireland longer than six months,

between the years 1980 and December 1996.

Wild animal BSE increasing in U.S. As of mid-January 2001, mad deer disease, also called chronic wasting disease or CWD, has hit a full 15% of free-ranging deer and elk in northeastern Colorado and southeastern Wyoming.

Deaths from contaminated surgery. A web chat comment provided this item: "A relative of mine, who is a doctor at Tulane University Medical School in New Orleans has firsthand knowledge of a patient who recently underwent surgery there. Apparently, the attending physicians and surgeons were unaware of the patient's condition (CJD). The medical instruments used on this patient were then used on at least 6 others before they were discovered to be infected. The instruments had been properly autoclaved after each surgery, yet each subsequent patient had contracted CJD. There are at least seven confirmed cases of CJD in Louisiana alone right now. This confirms that not only is CJD in the U.S., but it is being misdiagnosed by medical professionals. I was a paramedic in the '80s, and even back then we were taught about CJD and how it wastes the nervous system."

Latest official BSE count. This report is dated December 22, 2000, and comes from Reuters: "Since 1986, 180,000 BSE cases have been confirmed in British cattle, with 1,300 to 1,400 cases elsewhere in Europe (primarily in four countries: France, Ireland, Portugal, and Switzerland, with several dozen cases elsewhere on the continent), according to WHO. Small numbers of cases have been reported in Canada, Argentina, Italy, and Oman; but, in each of these countries, this was only in imported British bovine, it added. In all, 87 cases of CJD have been reported in Britain, three in France, and one in Ireland, according to the agency. " 'We know potentially contaminated materials were exported outside the European Community . . . We are trying to identify the countries that we should put our largest effort into,' Ricketts said."

RHODES' NEW BOOK

Pulitzer prize winning author, Richard Rhodes, has published a helpful book, *Deadly Feasts*, on the controversy. Here are some facts you will find in it:

Nobel Prize winner, Dr. Carleton Gajdusek (one of the foremost researchers of Kuru and other spongiform diseases), has declared that **all the pigs in England are infected with BSE; and that means not only pork, but also pigskin wallets, footballs, and catgut surgical suture. All of these come from pigs** (p. 220). Noting that all the chickens fed on meat-and-bonemeal are infected, he adds that, in America, beef male cattle are killed at or before age two, before they are likely to show the outward symptoms of the disease.

In America, chicken excreta (manure) is fed to cattle as a good source of nitrogen (p. 258). As for the American FDA's ban on feeding meat and animal by-products to cattle, Rhodes writes "That's a ban with exclusions big enough to drive a cortege of hearses through." Their own BSE advisory committee urged the FDA take stronger measures (page 257).

According to Rhodes' book, bovine spongiform encephalopathy has been detected in America, and not just in cattle. **The American form of BSE does not cause the staggers and other behaviors found in British cattle; but instead it results in a more "sedate" collapse of the victim, referred to as "downer cattle."** The nature of the brain damage is also distinct; a spongiform with differently shaped and oriented vacancies. Other forms have been transmitted via eating wild squirrels and wild bear. Some American zoos have lost animals to BSE.

Dr. John Pattison, Chairman of the British Government's Spongiform Encephalopathy Advisory Committee (SEAC), Dean of the University College of London Medical School, **believes 500,000 people may already be incubating CJD in Britain.**

Dr. Alsleben has stated that **prions can be found in white blood cells, contaminated milk, and even in the animal grease used in lipstick.**

On page 222 of Rhodes' book, Richard Lacey of the Microbiology Department of Chapel Allerton Hospital, Leeds, points out that "there was no certainty that the source of infection had been cut off." " 'If it seems that the incubation-period average for CJD in humans begins to be about twenty five years, maybe thirty years,' he told me [Rhodes] grimly, 'then **the peak human epidemic will come around the year 2015.** If the current numbers of variant CJD cases increases by fifty percent per year, as they well might, that would take it to **about two hundred thousand [human] cases a year by then.**' " That comment is only about mortalities in Britain.

Why is the body filled with the prion infection before CJD symptoms appear? **What are the subtle effects long before the final destruction?** If these prions are indeed the rod-like structures researcher Patricia Merz describes on page 156 of Rhodes' book, then they would tend to impede cellular machinery long before they became long enough to break cell membranes and kill the cells. Thus it is possible that, long before that final break, subtle neurological effects could become evident. **Dr. Merz has definitely located prions in spleen tissue and elsewhere in the animals, long before any outward symptoms were manifest!** This is extremely significant. Prions apparently travel freely in the blood of these animals. **Therefore all tissue is likely to harbor some prions, not just brain tissue.** This means that large amounts of infected cattle have been fed to other cattle, which after becoming infected, have been sold to the public. But, since the human form of the disease (CJD) is misdiagnosed as Alzheimer's, the medical crisis continues to mount.

THE CRISIS COMES TO AMERICA

Mad Cow hit our shores in two blows—the first was on January 12th, 1996, when John Darnton wrote a long article on balmy bovines for the *New York Times*; **the second came March 20th, 1996,** when the British Government finally admitted to the world that the obscure brain-disintegrating cow malady, called bovine spongiform encephalopathy, was

the same disease found in a lot of dead sheep, in the brains of several hundred dead Brits, and the same disease that turned cannibals' brains to mush back in New Guinea in the 1940s.

The following excerpts, from a Reuters news release dated January 28, 2001, reveal the seriousness of the problem.

“While the triumph of vegetarians has long been predicted, **Americans still are among the world's leading carnivores, each eating nearly 100 pounds (45 kg) of beef and veal a year . . .**

“British officials at first denied the disease could spread to humans but have since admitted it could when more than 80 people died of a human version called the new variant Creutzfeldt-Jakob disease after eating infected beef. Three people have died in France.

“Just a whiff of trouble over mad cow disease on this side of the Atlantic was enough last week to send a shudder through U.S. agribusiness and some markets. Cattle futures prices and the shares of McDonald's fell on Thursday after the Food and Drug Administration announced it had quarantined some cattle in Texas on suspicion they had been fed rations containing cattle parts in violation of rules to prevent mad cow disease . . .

“ ‘I can't imagine what would happen if ever we had a suspected case here in the U.S.,’ said Chuck Levitt, senior livestock analyst for Alaron Trading Corp. in Chicago. **‘What a calamity that would be for the industry.’**

“The U.S. cattle herd is nearly 100 million animals, the single largest segment of U.S. agriculture. The production of grain-fed beef in the United States is among the most intensive in the world with massive feedlots containing thousands of cattle in close quarters . . .

“ ‘The government agencies say they have erected this firewall (against mad cow). **We don't have a firewall. It's more like a white picket fence,**’ said Michael Hansen, a research associate with the Consumers Union in Washington . . .

“At least two maladies of the same general family as mad cow are present in the United States—scrapie in sheep, and chronic wasting disease in some wild deer and elk.

“Furthermore, the FDA has said that the rules banning the feeding of ruminant meat and bonemeal to cattle have been flouted. The cattle industry has called for a ‘zero tolerance’ policy to get producers of feed to comply with the rules.

“The National Cattlemen's Beef Association has called an emergency meeting for Monday in Washington of feed industry and government officials to underscore the need for vigilance.

“ ‘If there are folks that don't understand the seriousness of the situation, they need to be brought to understand that,’ the organization's chief executive Charles Schroeder told Reuters in a recent interview” (*Reuters, January 28, 2001*).

PRESS RELEASE HEADLINES

Here is a collection of news headlines, spanning several months,—which show how explosive this crisis is becoming! We could have added a hundred pages of data to this study, but must conclude this study, so we can write on other pressing matters. *Consider this:*

New mad cow cases in France; four herds killed / U.S. orders Vermont sheep killed over mad cow fears / UK's human mad cow cases rise 20%-30% in one year / Vermont sheep loss declared “no threat to humans” / Young UK woman's death blamed on mad cow / Mad deer disease spreads to Wisconsin / Infected venison may be fatal / Scientist says mad cow may kill 500,000 Britons / Nobel scientist says mad cow may infect millions of sheep / Some “herbal” supplements contain raw animal parts and risk of mad cow / Scientists now warn of mad cow risk in dental procedures / Human mad cow deaths in UK now rising 33% per year / USDA in state of emergency over mad cow in Vermont sheep / Mad cow and Alzheimer's proteins are similar / Mad cow worries increase over milk supply / Humans may be secret mad cow carri-

ers / Mad cow / CJD species-jumping revelation confirms worst fears / Now known that mad cow may be spread by pork, lamb, and poultry / Mad cow and CJD may be transmitted invisibly / Canada fearing CJD bars blood donors / Rising death toll from human BSE / "Whirling disease" in trout is fish version of mad cow and mad deer disease / Strongest evidence yet that CJD is spread by blood transfusions / Blood donors with no symptoms can pass CJD / French cows eat infected feed linked to mad cow / Prions survive digestive tract / Terrible death of CJD girl videotaped in England / Scientists warn CJD can spread in dental and surgical procedures / Eight patients may have mad cow from reused "sterile" surgical instruments / Anti-aging creams exposed women to CJD risk / UK scientist says every Britisher has "eaten 50 BSE meals" / Swiss to ban all animal meal in livestock feed / EU plans to outlaw British blood / Barrels of BSE waste float away in Britain's worst floods / BSE-infected chemicals may be in UK water supply / Half of UK tonsil tools could carry mad cow / UK refuses to ban surgical instruments in tonsil removal, in spite of CJD / France calls for immediate moratorium on bonemeal in feed / mad cow panic spreading through Europe / France bans animal meal in livestock feed / French beef sales off 50% as mad cow fear deepens / Dutch discover seventh mad cow case / Lion in British zoo dies of mad cow / Mad cow now found in Azores; all cattle to be slaughtered / Spain in panic over first mad cow / Germany finds first two mad cow cases / Government tells UK physicians not to tell patients of CJD blood concerns / EU wants slaughter of 2 million cattle to curb BSE / Europeans starting to eat horse meat / Louisiana man exposed to mad cow during surgery sues hospital / German scientists first to test soil for mad cow link / Mad cow scare spreading beyond Europe / Russian man dies of CJD; first Russian case / Another American victim / Spain confirms second mad cow case / CJD death toll being played down / More European deaths from mad cow / Horse meat sales soar in Germany / Crisis will cost patients billions to in-

sure safer invasive instruments / France bans blood from people who lived in the UK during 1980-1996 / Not all "single-use" medical instruments are used only once / Blood of Irish CJD victim used to make 83,000 doses of polio vaccine / Mad cow crisis sends Blair government into disarray / WHO says mad cow may have spread worldwide / German health chief demands mad cow and scrapie tests / Another mad cow in Germany / French to sue Britains over BSE / Beef sales fall 80% in Germany / Britain is slaughtering, eating its wild ponies.

TOWARD PERSONAL SOLUTIONS

What about cooking the meat or milk?

The pasteurizing of milk, at 150 degrees, makes the prion think it's a sunny day. The cooking of meat at 212 degrees makes him think he's in a pleasant sauna. Raising the heat to frying in the 320 range might make him even blink; but you must reduce the prion to total ash at 340 degrees Centigrade (in our American Fahrenheit system that would be 800 degrees), to immobilize him and take away his ability to replicate.

What about the BSE/CJD spore? There is no solvent known to immobilize the Mad-Cow spore. This kind of microbial tenacity is so far-fetched that it frightens the medical community. If you ask a doctor to do an autopsy of a patient who died of CJD, he flees, knowing that if he exposes his lab to this disease, the lab will be closed down by government officials. He cannot clean his sink without burning it up! By the way, when asked about this by worried reporters, Paul Brown of the NIH reassured them. He said he could clean prions off his hands with Ivory soap. We welcome him to try it in public.

Any other solution? The medical community has no cure for CJD. It is—very simply—fatal. There is no drug or surgery which can cure it. But Dr. Richard Deandrea says that if you think you've been exposed, enzyme therapy might work, seeing that proteins can be dissolved by enzymes which are found in raw foods. But Dr. Prusiner has written that this protein molecule laughs off all the enzymes he tried on it.

More than just meat is infected. If Mad Cow is in meat, it could be in dairy products and eggs. It is in mayonnaise. It's in the gelatin in candy or wrapped around a vitamin pill. It's in blood meal fertilizer, urea fertilizer, and the manure clinging to store-bought mushrooms. Animal derivatives are used in vaccines, pharmaceuticals like Premarin, in glandular substances used in remedies such as melatonin. It is in pet food, gloves, film, plastics. British leather was banned by Egypt a week after Minister Dorrell's admission.

The only answer is to go vegetarian. Choose vegetarian proteins like tofu, nuts, or beans. You will be healthier in every way, as these proteins do not tax the immune system as much as flesh. Immune systems love a whole, live, raw food diet; so eat raw, dark-green salads with nuts, sprouts, and seeds. Cleanse with enemas or colonics. Take periodic raw juice fasts. Besides a vegan diet of vegetables grown on organic soil, take "good fat" supplements like flaxseed. The oils and proteins found in nuts and seeds are good. Be wary of dairy products; they could be infected with prions. Make almond milk, brown rice milk, tofu milk. Take multi-vitamin supplements. Blue green algae, spirulina, chlorella are complete foods with B-12. Animal source of B-12 is dangerous now. Get rid of other eco-hazards that stress the immune system, such as fluoride toothpaste, perfume, dental fillings, and solvents like propyl alcohol (used in all soap, detergent, shampoo, and cleaning all factory food and juice machines). Go 100% natural. Become a vegetarian.

In this study, you have learned a lot of facts. If you want to take the situation seriously, you ought to decide right now to make some changes in your diet!

But you should be warned that some of the media right now has a different message for you:

"Everything is peace and safety; there is no danger. Eat as you please; the meat is as disease-free as ever. Government and industry reports confirm that there is no CJD in America, no diseased animals are now be-

ing fed to cows, and the U.S. is totally sealed off from the problems in Europe. American meat is as disease-free as it has ever been."

Decide for yourself whose advice you will follow. **Do you want to believe the eminent scientists quoted or referred to in this report, such as Drs. Pattison, Lacey, Prusiner, Dorrell, Alsleben, Marsh, Narang, Deandra, Merz, Doeller, Gajdusek, and Ricketts?**

Or do you want to believe the Southwood Committee, the Tyrell Report, the *British Medical Journal*, *The Economist*, *Nature*, *New Scientist*, the British Department of Agriculture, the USDA, the NIH, the U.S. beef industry, and what you hear on television?

This is your life. Do what you want with it.

—uf

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"Many die of disease caused wholly by meat eating; yet the world does not seem to be the wiser. Animals are frequently killed that have been driven quite a distance for the slaughter. Their blood has become heated. They are full of flesh, and have been deprived of healthy exercise, and when they have to travel far, they become surfeited and exhausted, and in that condition are killed for market. Their blood is highly inflamed, and those who eat of their meat, eat poison. Some are not immediately affected, while others are attacked with severe pain, and die from fever, cholera, or some unknown disease . . .

"Some animals that are brought to the slaughter seem to realize by instinct what is to take place, and they become furious, and literally mad. They are killed while in that state, and their flesh is prepared for market. Their meat is poison, and has produced, in those who have eaten it, cramps, convulsions, apoplexy, and sudden death. Yet the cause of all this suffering is not attributed to the meat.

"Some animals are inhumanly treated while being brought to the slaughter. They are literally tortured, and after they have endured many hours of extreme suffering, are butchered. Swine have been prepared for market even while the plague was upon them, and their poisonous flesh has spread contagious diseases, and great mortality has followed."—*4 Spiritual Gifts*, 147-148.

"The liability to take disease is increased tenfold by meat eating (CD 385-386)."—*2 Testimonies*, 64 (1868).

"Worldly physicians cannot account for the rapid

increase of disease among the human family. But we know that much of this suffering is caused by the eating of dead flesh."—*Letter 83*, 1901.

"The animals are diseased, and by partaking of their flesh, we plant the seeds of disease in our own tissue and blood. Then when exposed to the changes in a malarious atmosphere, these are more sensibly felt; also when we are exposed to prevailing epidemics and contagious diseases, the system is not in a condition to resist the disease."—*Counsels on Diet and Foods*, 386-387 (1896).

"The eating of flesh meats has made a poor quality of blood and flesh. Your systems are in a state of inflammation, prepared to take on disease. You are liable to acute attacks of disease and to sudden death, because you do not possess the strength of constitution to rally and resist disease. There will come a time when the strength and health you have flattered yourself you possessed will prove to be weakness."—*2 Testimonies*, 61 (1868).

"Their suffering and ill health was caused by a disregard of the light given them upon health reform. I have shown them that their meat diet, which was supposed to be essential, was not necessary, and that, as they were composed of what they ate, brain, bone, and muscle were in an unwholesome condition, because they lived on the flesh of dead animals; that their blood was being corrupted by this improper diet; that the flesh which they ate was diseased, and their entire system was becoming gross and corrupted."—*Counsels on Diet and Foods*, 387.

APPENDIX 1

Nearly 400 Products Made from Cattle, Sheep, and Pigs

It comes as something of a shock to discover all the products that contain animal parts or derivatives. Many of these are in food, medicines, or medical equipment.

We live in a chemical age, and the raw materials the chemists have to draw from are rocks, plants, and animals. There is nothing else.

1 - MEDICAL CARE PRODUCTS

GENERAL MEDICAL AND HEALTH CARE PRODUCTS—antibodies (immunoglobulins) / beef insulin / bovine collagen - used as injections to fill in scars / bovine fibrinolysin (brand name-Elase) ointment for necrotic tissue - bovine super oxide - dismutase cream (Orgotein) - cosmetic skin cream to prevent tissue aging / bovine thrombin (brand name - Thrombinar) clotting agent for blood / culture medium - diagnosis / fetal bovine serum - tissue cultures / Hyaluronidase - efficient drug use / PTH - control tetany / peganemase - bovine derivative (brand name - Adagen) - for patients who are immuno-compromised - helps prevent white blood cells from breaking down / pill capsules - GELATIN / whole serum - vaccine manufacturing

PRODUCTS FROM OVARIES—estrogen / progesterone - a reproductive hormone

PRODUCT FROM STOMACHS—pepsin - aid in protein digestion / rennet - aid in milk digestion

PRODUCTS FROM THYROIDS—bovine thyroid (Thyrar) a thyroid replacement / TSH - thyroid diagnosis / thyroid extract - hypothyroidism / thyroid hormones - myxedema and cretinism

PRODUCTS FROM ADRENALS—cortisone - for

arthritis, skin allergies, anti-inflammatory medicine / epinephrine - aid in raising blood pressure, heart disorders, and allergies

PRODUCTS FROM LIVERS—heparin - anti-coagulant, prevents gangrene / liver extract - treatment of anemia / intrinsic factor - pernicious anemia / Vitamin B12 - prevention of B-complex deficiencies

PRODUCTS FROM LUNGS—heparin - anti-coagulant, prevents gangrene

PRODUCTS FROM BLOOD—plasma protein / blood albumin - RH factor typing / Fraction I - hemophilia / Fraction V - kills viruses / iron for anemia / thrombin - blood coagulant / protein extracts / diagnostic microbiology

PRODUCTS FROM HOG HEARTS—heart valves for human transplant

PRODUCTS FROM INTESTINES—medical sutures - surgery

PRODUCTS FROM BONES—bone marrow - blood disorders / bonemeal - calcium and phosphorous source / mineral source in supplements / collagen and bone for plastic surgery / soft cartilage - plastic surgery / xiphisternal cartilage (breastbone) plastic surgery

PRODUCTS FROM PANCREAS—chymotrypsin - contact surgery / diastase - aid in starch digestion / glucagon - treat hypoglycemia / insulin - diabetes mellitus / pancreatin - aid digestion / trypsin - for burns, wounds, and infection - promotes healing - aid in protein digestion and in cleaning wounds

PRODUCTS FROM PITUITARY GLANDS—

ACTH - arthritis, allergies, rheumatic fever, skin and eye inflammations / pressor hormone - regulates blood pressure / prolactin - promotes lactation / vasopressin - controls intestinal and renal functions

PRODUCTS FROM SPINAL CORDS—cholesterol - hormone products

2 - FOOD PRODUCTS

PRODUCTS FROM CATTLE, SHEEP, AND HOG FLESH—a huge variety of fresh, frozen, and pre-cooked meats and prepared and processed meat products

PRODUCTS FROM MILK/DAIRY—butter / casein (proteins) / cheese and cheese products / cream / food ethanol / ice cream and ice cream mixes / lactose (carbohydrates) / milk powder / sherbet / whey (proteins) / fats (lipids) / yogurt

PRODUCTS FROM FATS AND FATTY ACIDS (edible)—chewing gum / lard / oleo margarine / oleo shortening / oleostearin / pharmaceuticals / rennet for cheese (sheep) / shortening

PRODUCTS FROM BLOOD—blood sausage / bonemeal / cake mixes / deep-fry batters / egg substitute / gravy mixes / imitation seafood / some pasta dishes / whipped toppings and coffee whiteners

PRODUCTS FROM BONES—whitener in refined sugar

PRODUCTS FROM BONE, HORNS, AND HOOVES—gelatin capsules / gelatin deserts / ice cream, malts, and shakes / marshmallow / potted meats

PRODUCTS FROM INTESTINES—sausage casings

PRODUCTS FROM HIDES AND SKINS—sausage casings / gelatin / candies and confectionery / flavorings / foods / gelatin desserts / ice cream / marshmallows / mayonnaise / yogurt

3 - INDUSTRIAL AND CONSUMER PRODUCTS

PRODUCTS FROM MILK—adhesives / animal feed / buttons / carriers for human medicine / cosmetics / glue / pharmaceuticals / sizing / specialty plastics / veterinary medicines

PRODUCTS FROM BLOOD—adhesives / bone marrow / bonemeal / fabric printing and dyeing / leather-treating agents / livestock feed / minerals / plaster retardant / plywood adhesive / diagnostic microbiology from colloidal proteins - glue for automobile bodies / protein source in feeds / sticking agent / textile sizing

PRODUCTS FROM BONES—bone charcoal / pencils / high grade steel / bone handles / bone jewelry / mineral source in feed / fertilizer / dried bones / buttons / bone china / glass / porcelain enamel / water filters / whitener in refined sugar

PRODUCTS FROM BONE, HORNS, AND HOOVES—adhesives / bandage strips / collagen cold cream / cellophane wrap and tape / crochet needles / dice / dog biscuits / emery boards and cloth / fertilizer / glycerine / laminated wood products / neat's-foot oil / photographic film / plywood and paneling / shampoo and conditioner / wallpaper and wallpaper paste / syringes

PRODUCTS FROM BRAINS—anti-aging cream / cholesterol

PRODUCTS FROM FATS AND FATTY ACIDS (edible and inedible)—animal foods / biodegradable detergents / biodiesel / cellophane / cement / ceramics / chalk / chemicals / cosmetics / crayons / creams and lotions (sheep) / deodorants / detergents / explosives / fertilizer / fiber softeners / floor wax / glycerin / glycerol / antifreeze / herbicides / horse and livestock feeds / industrial oils and lubricants / insecticides / insulation / linoleum / livestock feed / makeup / matches / medicines / mink oil / nitroglycerin / oil polishes / ointment bases / oleostearin / paints / paraffin / perfumes / pet foods / pharmaceuticals / plasticizers / plastics / printing rollers / protein hair conditioner / protein hair shampoo / putty / rubber products / shaving cream / shoe cream / soaps / solvents / stearic acid (sheep) / tallow for tanning / textiles / tires / waterproofing agents / weed killers

PRODUCTS FROM GALLSTONES—ornaments

PRODUCTS FROM HAIR—air filters / artist's paintbrush / felt and rug padding / insulation material / nonwovens / plastering material / textiles / upholstering material

PRODUCTS FROM HIDES AND SKINS—belts / collagen-based adhesives (from trimmings) / bandages / emery boards / glues for papermaking and bookbinding / cabinetmaking / sheetrock / wallpaper / drumhead (sheep) / pharmaceuticals / photographic materials / leather sporting goods / leather wearing apparel / luggage / pigskin garments and gloves / porcine burn dressings for burn victims / shoes and boots / upholstery / wallets

PRODUCTS FROM HOOVES AND HORNS—chessmen / combs / buttons / fertilizer / horn handles / imitation ivory / inedible bonemeal / livestock feeds / ornaments / piano keys / plant food

PRODUCTS FROM INTESTINES—instrument strings / sausage casings / tennis racquet strings

PRODUCTS FROM MANURE—fertilizer - used in gardens, lawns, and farm cropland / nitrogen / potash / phosphorus / minor minerals

OTHER PRODUCTS FROM CATTLE

SOURCES—airplane lubricants and runway foam / car polishes and waxes / hydraulic brake fluid / Stearic acid - helps rubber in tires hold shape under steady surface / friction steel ball bearings containing bone charcoal / textiles for car upholstery / various machine oils and viscous fluids

PRODUCTS FROM WOOL—asphalt binder / carpet / clothing / cosmetics / fabrics / felt / insulation / lanolin / medical ointments / paint and plaster binder / pelt products / rouge base / rug pads / upholstery / woolen goods / worsted fabric / yarns

“The effects of a flesh diet may not be immediately realized; but this is no evidence that it is not harmful. Few can be made to believe that it is the meat they have eaten which has poisoned their blood and caused their suffering.”—*Ministry of Healing*, 315 (1905).

“I have the subject presented to me in different aspects. The mortality caused by meat eating is not discerned; if it were, we would hear no more arguments and excuses in favor of the indulgence of the appetite for dead flesh. We have plenty of good things to satisfy hunger without bringing corpses upon our table to compose our bill of fare.”—*Counsels on Diet and Foods*, 391 (1896).

“Many die of diseases wholly due to meat eating, when the real cause is scarcely suspected by themselves or others. Some do not immediately feel its effects, but this is no evidence that it does not hurt them. It may be doing its work surely upon the system, yet for the time being the victim may realize nothing of it.”—*Counsels on Diets and Foods* 391 (1890).

“You have repeatedly said in defense of your indulgence of meat eating, ‘However injurious it may be to others, it does not injure me, for I have used it all my life.’ But you know not how well you might have been if you had abstained from the use of flesh meats.”—*Counsels on Diet and Foods*, 391-392.

“Physicians who claim to understand the human organism ought not to encourage their patients to subsist on the flesh of dead animals. They should point out the increase of disease in the animal kingdom. The testimony of examiners is that very few animals are free from disease, and that the practice of eating largely of meat is contracting diseases of all kinds,—cancers, tumors, scrofula, tuberculosis, and numbers of other like affections.”—*Counsels on Diet and Foods*, 388 (1897).

“People are continually eating flesh that is filled with tuberculosis and cancerous germs. Tuberculosis, cancer, and other fatal diseases are thus communicated.”—*Ministry of Healing*, 313 (1905).

APPENDIX 2

Caution Regarding Some Herbal Products

The following news release, dated September 27, 2000, points to a related problem: that of “herbal” supplements which contain animal products.

“New York—Despite their plant-based image, **some herbal supplements contain ‘raw animal parts’—including, according to a report, cow brain matter.**

“There is no evidence that any herbal product has been contaminated with the agent that causes bovine spongiform encephalopathy (BSE), the mad cow disease that triggers a similar brain-wasting disease in humans who eat tainted beef.

“However, Dr. Scott A. Norton said in an interview, ‘I would advise all of my patients not to take supplements that contain central nervous system tissue from animals.’ [Norton did not realize that CJD can be contracted by eating other parts of BSE-infected animals.] The problem is that **herbal-supplement labeling is not always clear**, Norton writes in a letter in the July 27th issue of the *New England Journal of Medicine*. **Although he found one product that listed, with its ingredients, 17 cow organs, from lungs to brain matter, other manufacturers are not**

so forthright. For example, most consumers would likely not realize that ‘hypothalamus’ refers to brain tissue, said Norton, a dermatologist and botanist from Chevy Chase. He mentioned one product which contained bull testicles (on the label called “orchis”).

“‘The public,’ Norton said, ‘doesn’t fully understand what they’re getting into when they buy these products.’ The public should at least be aware of what is there, according to Norton. ‘I think a lot of us would feel we’ve been duped,’ he said, ‘if we think we’re getting a wholesome product and then find out it contains animal parts.’”

[Special note: It is very possible that this article was planted by the anti-natural remedies people who use every possible way to belittle or attack the use of natural remedies, including herbal preparations. Nevertheless, we do well to be very cautious regarding the herbal products we use. Not mentioned in this article is the danger of taking calcium supplements which may have bonemeal in them. -vf]

There are those who take food supplements which are not vitamins, minerals, or herbs, but “glandulars” which consist of various animal organs.

“Washington (AP)—Dr. Scott Norton was browsing through herbal supplements when he spotted bottles containing not just plants but some unexpected animal parts: brains, testicles, tracheas and glands from cows and other animals.

“The Maryland physician sounded an alarm: How can Americans be sure those supplements, some imported from Europe, are made of tissue free from mad cow disease?

“Norton’s complaint has government scientists scrambling to investigate a possible hole in the

nation’s safety net against mad cow disease and its cousin that destroys human brains . . . Just what bulk ingredients containing cow brain or nerve tissue might be slipping from Europe through U.S. ports? . . . The FDA inspects less than 1 percent of all imports under its jurisdiction . . . FDA officials contend the issue isn’t a huge concern. They note the majority of supplements are made from plants, not animals . . .

“The [supplement] industry’s Council for Responsible Nutrition also calls the worry exaggerated, saying gland-containing supplements account for less than 1 percent of sales. Officials are trying to determine how much is imported and plan to meet soon with FDA.”—*Organic Consumers Association, Associated Press, February 5, 2001.*

APPENDIX 3

Mad Cow Disease in U.S. Pigs

It has been increasingly suspected that many Alzheimer's cases are actually CJD (the human form of mad cow disease). In this article, Joel Bleifuss reports that pigs are believed to be a significant cause of mad cow disease. You are going to read about breakthrough research into a serious aspect of the BSE problem in America. A link between BSE and eating clams and oysters is also shown.

This article first appeared in *These Times*, a Chicago-based paper, April 26, 1997.

"Porcine" means relating to pigs, and comes from the Latin: "*porcus*" for pig. Our English word, "pork," is derived from it.

"TSE" stands for transmissible spongiform encephalopathy. This came into usage in the 1990s, and means BSE or CJD which can be passed from one animal/person to another.

"Some pigs in the United States may be infected with a porcine form of mad cow disease," according to an alarming study by U.S. Department of Agriculture (USDA) scientists that has recently come to light.

"This previously unrecognized form of the disease in swine may be infecting humans," according to epidemiological studies that link pork consumption with mad cow's human equivalent, Creutzfeldt-Jakob disease.

"In late 1978, Dr. Masuo Doi, a veterinarian with the Food Safety and Quality Service, observed signs of a mysterious central nervous system (CNS) disorder in some young hogs that had arrived at the Tobin Packing Plant in Albany, N.Y., from several Midwestern states.

"For the next 15 months, Doi studied 106 of the afflicted pigs. He described their symptoms this way: 'Excitable or nervous temperament to external stimuli such as touch to the skin. Handling and menacing approach to the

animals is a common characteristic sign among those affected with the disease.' These symptoms, Doi now notes, are strikingly similar to those of British cattle infected with mad cow disease, which is scientifically known as bovine spongiform encephalopathy (BSE).

"Doi sent the brain material from these pigs to Karl Langheinrich, the head pathologist at the USDA's Eastern Laboratory in Athens, Ga. In a November 1979 report, Langheinrich noted that one pig's brain exhibited what the veterinary reference work, *Pathology of Domestic Animals*, defined as 'the classical hallmarks of viral infection of the central nervous system.' Langheinrich went on to report that **the damage in the pig's brain was similar to the damage observed in the brains of sheep afflicted with scrapie and of mink afflicted with transmissible mink encephalopathy**, the two other variants of transmissible spongiform encephalopathy (TSE) known at the time.

"In March of this year, Dr. William Hadlow, a retired veterinary pathologist who is one of the world's leading TSE researchers, examined the microscope slides of pig brain from Doi and Langheinrich's 1979 investigation. The pig 'could have suffered from a scrapie-like disease,' he reports, but adds that such a conclusion cannot be "justified by the limited microscopic findings, however suggestive of a TSE they may be."

"The Government Accountability Project (GAP), a Washington-based organization that supports public-sector whistle-blowers, has been working with Doi to alert the public that a porcine form of mad cow disease may be circulating in the American pig population. In a March 27 letter to Secretary of Agriculture Dan Glickman, GAP points out that if we assume a similar incidence of central nervous system disorders in swine being slaughtered nationwide as that found among swine at the Tobin Packing

Plant, **'it is reasonable to question whether, since at least 1979, USDA has been allowing 99.5 percent of animals with encephalitis, meningitis, and other CNS disorders into the human food supply.'**

"And what happens once those thousands of diseased pigs are eaten by the American public? Two epidemiological studies found pork to be a dietary risk factor in Creutzfeldt-Jakob disease (CJD). A 1973 study, published in the *American Journal of Epidemiology*, discovered that **14 of 38 CJD patients (36 percent) ate brains. Further, of those who ate brains, most (10 of the 14) preferred hog brains.**

"Another study, published in the *American Journal of Epidemiology*, in 1989, looked at how frequently 26 CJD patients ate 45 separate food items. **Nine of these foods were found to be statistically linked to increased risk of CJD.** Of those nine, six came from **pigs**—roast pork, ham, hot dogs, pork chops, smoked pork and scrapie. (The three that were not pig-derived were **roast lamb, raw oysters/clams and liver.**)"

The authors of the study concluded: "The present study indicated that consumption of pork as well as its processed products (*e.g.* ham, scrapie) may be considered as risk factors in the development of Creutzfeldt-Jakob disease. While scrapie has not been reported in pigs, a subclinical form of the disease or a pig reservoir for the scrapie might conceivably exist."

"The number of Americans who develop CJD in a given year is in dispute. The Centers for Disease Control (CDC) claims that the human form of mad cow disease occurs at a rate of one in a million. Further, ignoring evidence of a new variant of CJD found in Britain, the CDC maintains that people who eat an infected animal cannot contract the disease. In January, CDC Assistant Director for Public Health Lawrence Schonberger told a Congressional hearing, "The bottom line from our perspective is that it's a theoretical risk . . . but it is not as yet a real risk."

"But does the CDC really know how many Americans contract CJD? Evidence indicates that CJD may often be misdiagnosed, and thus go unreported. A 1989 study at the University of Pittsburgh autopsied the brains of 54 patients who had been diagnosed with Alzheimer's and discovered that three of the patients (5.5 percent

of the sample) actually had CJD. A 1989 study at Yale University reported similar findings.

"Postmortem examination of 46 patients who had been diagnosed with Alzheimer's revealed that six (13 percent of the sample) actually had CJD. The New York-based Consumers Union, which publishes *Consumer Reports*, argued in a paper presented to the USDA, **'Since there are over 4 million cases of Alzheimers disease currently in the United States, if even a small percentage of them turned out to be CJD, there could be a hidden CJD epidemic.'**

"Which brings us to the issue of what the Food and Drug Administration (FDA) is doing to address this food-borne threat to public health. In the past several months, in response to questions about Doi's 1979 pig research, USDA officials have put out a good deal of misinformation to public-interest groups, the media and even the National Association of Federal Veterinarians. On repeated occasions, officials have said that the slides of the pig brains from the 1979 study were unavailable because they had been sent to scientists in England who were studying mad cow disease. But as it turns out, the USDA never sent any slides to England.

"Agency officials repeatedly misrepresented scientists' investigations and conclusions to consumer groups and government employees and neglected to keep other agencies also working on TSE issues informed,' says Felicia Nestor of GAP. "The USDA had to be pushed to investigate scientific evidence which only they had."

"The USDA's lackluster response to this public health threat comes as no surprise. **For years, the agency has done its best to ignore evidence that a distinct American strain of mad cow disease may already afflict the U.S. cattle population.** Veterinary researchers in Mission, Texas in 1979 and Ames, Iowa, in 1992 found that cattle injected with brain matter from scrapie-infected American sheep developed BSE. However the brains of these infected cattle did not exhibit the spongy holes found in the brains of their BSE-plagued British cousins. Furthermore, **cows afflicted with this American strain of scrapie-induced BSE do not go mad; they simply collapse and die.**

"The distinction is important because the American strain of the disease leads to symp-

toms that resemble what happens to the 100,000 American cattle that succumb to 'downer cow syndrome' every year.

“Veterinary researchers fear that the widespread practice of feeding downer cows (in the form of rendered protein feed supplements) to other cattle, sheep and hogs could already be fueling a TSE epidemic in the United States like the one that plagued Britain. In fact, **in 1979, before BSE was discovered in Britain**, Doi pointed out in his study of deranged pigs that many animals have been found to be ‘downers’ at first observation.

“On January 3 [1997], the FDA finally drafted a rule that would ban the fortifying of animal feeds with ‘any Mammalian tissue.’ USDA researchers, critical of the government’s foot dragging, have been calling for a ban for seven years. But undercutting this important step, the FDA has played a taxonomical shell game and arbitrarily removed pigs from the class ‘mammalia.’ [According to the U.S. Government, pigs are not mammals!]

“Consequently, **if the FDA’s proposed rule is adopted, animals being fattened for slaughter will stop eating cow renderings and instead eat only pig remains.** Since mad cow disease in Britain was spread by feeding mad cows to healthy cows, the FDA’s pigs-are-not-mammals proposal gives any porcine form of mad cow disease a point of entry into the human food chain.

“On April 28, Consumers Union filed comments with the FDA on the agency’s proposed regulations. The group advocates a complete ban on the use of all mammalian protein in all feed intended for feed animals, as is now the case in England. [That means Britain now has a stricter feed ban than the U.S. does!] ‘The draft rule,’ says Consumers Union, ‘is not adequate to protect public health, because it would continue to leave the door open for a porcine TSE to contaminate pork and other meat.’

“It would be nice if the USDA were as concerned about protecting public health as it is about the financial health of the \$30 billion-a-year pork industry and the \$60 billion-a-year beef industry. Ditto for the *Wall Street Journal*, where editors have put on hold a story by a staff reporter on mad pig disease and the possible link between pork consumption and CJD.

“ABC’s *World News Tonight* has also sat on the information for a couple of weeks. On May 12, the network did air a story that examined the fact that CJD was being misdiagnosed as Alzheimer’s. But the network failed to note that CJD is the human form of mad cow disease. The network also neglected to mention the possible connection to pork or the fact that the CJD patient featured in the story, Marie Ferris, had been employed at a packing plant where she handled slaughtered pigs.”

“Those who use flesh meats freely, do not always have an unclouded brain and an active intellect, because the use of the flesh of animals tends to cause a grossness of body, and to benumb the finer sensibilities of the mind.”—*Counsels on Health*, 115 (1890).

“It is impossible for those who make free use of flesh meats to have an unclouded brain and an active intellect.”—*2 Testimonies*, 62-63 (1868).

“There is an alarming lethargy shown on the subject of unconscious sensualism. It is customary to eat the flesh of dead animals. This stimulates the lower passions of the human organism.

“A meat diet changes the disposition and strengthens animalism. We are composed of what we eat, and eating much flesh will diminish intellectual activity. Students would accomplish much more in their studies if they never tasted meat. When the animal part of the human agent is strengthened by meat eating, the intellectual powers diminish proportionately. A religious life can be more successfully gained and maintained if meat is discarded, for this diet stimulates into intense activity lustful propensities, and enfeebles the moral and spiritual nature. ‘The flesh warreth against the spirit, and the spirit against the flesh.’ ”—*Counsels on Diet and Foods*, 389 (1896).

APPENDIX 4

Excess Manganese May Be a Causal Factor

Money, employment, and position are very important in the secular world. For the meat industry of the Western world, mad cow disease is the death knell to all three. But, in this article, we find that the chemical industry may also be implicated.

Men are willing to commit crimes and even murder in order to achieve certain objectives. Eventually, the immense mad cow cover-up will be exposed, and what happens then is anyone's guess.

The best preparation you can make for what is ahead is to live in a retired country location, plant a garden, eat vegetarian, and obey the Bible and Spirit of Prophecy.

The following article was written by Paul Kail, Ph.D. Unfortunately, we do not have a source for this February 5, 2001 article.

“*nvCJD*” means New Variant CJD. There is also a “*vBSE*” (also known as “*VBSE*”). This is the American form of the British and European BSE. The European form produces holes in the brain, and the animal goes into contortions prior to death. The U.S. form does not produce those holes, the animal just falls to the ground and dies, and is said to just be a “downer animal.” That is a euphemism for the U.S. animal form of BSE. It is all mad cow disease.

“BSE (bovine spongiform encephalopathy), or Mad Cow Disease, and its human form, *nvCJD* (New Variant Creutzfeldt-Jacob Disease), are incurable brain disorders. Holes appear in victims’ brains, then they become demented and die. The diseases are not caused by a virus or a bacterium, but by a mysterious type of twisted protein, known as a *prion*. The prion can propagate itself by causing other proteins to twist into the same shape. Prions can be passed on by eating the flesh of another animal, and are resistant to cooking and digestion.

“A theory about how prions are formed suggests that organophosphate pesticides could be partly to blame. Two people have already died defending this theory, apparently at the hands of professional assassins working either for the British Government or the chemical industry. So the theory needs to be taken seriously.

“BSE first appeared in the UK in 1985. Since then, the disease has affected half of the cow herds in the country. New Variant CJD also first appeared in the UK, ten years later: to date, around 90 people have died from it. **Both BSE and CDJ are beginning to spread throughout the rest of Europe; today, 30 European countries have had exports of their cattle banned. The diseases have the potential to destroy the entire European cattle industry, and kill thousands of people. The death toll from *nvCJD* is increasing by 35% per year, and the disease has a gestation period of twenty years. Some projections suggest that hundreds of thousands of people could eventually die from it.**

“Given the huge amount at stake, one might expect that any credible theory would be welcomed. Yet **Mark Purdey**, a British farmer from Somerset, has suffered constant harassment and has had to support his research from his own pocket. Purdey has a theory which might explain the mystery of why BSE and new variant *nvCJD* started in the UK, and why they are so much more serious there. However, since he went public with his ideas, some rather unfortunate things have happened:

“1. **Both his vet and the lawyer defending his case died in suspicious road accidents. His second lawyer also had a car crash, but survived.**

“2. When an article about his work appeared in the *Independent*, a national British newspaper, **his telephone lines were cut.** He was therefore unable to take follow up calls from other

papers and television stations.

“3. **His farm house was burned down** just before he was about to move in.

“4. **His science library was destroyed** by a collapsing barn.

“5. When he travels around the country to talk about his theory, **he is constantly trailed. Purdey believes that the root cause of BSE is an imbalance of magnesium and copper, exacerbated, in the case of the UK, by the use of a highly toxic pesticide known as phosmet.** Phosmet is an organophosphate nerve toxin, originally developed by the Nazis. It is also related to the drug Thalidamide, which causes birth defects.

“Phosmet is made by Zeneca, a subdivision of the British chemical giant ICI. A week after the British Government first announced the link between BSE and nvCJD, Zeneca sold the patent for phosmet to a P.O. Box company in Arizona, apparently to avoid potential legal action.

“The theory started when Purdey noticed that his cows, unlike those of his neighbor’s, were not getting BSE. Cows often suffer from a parasitic infection known as warble fly. Since Purdey is an organic farmer, he treated his herd with derris root powder, a natural remedy. Other farmers were using phosmet, which was later made compulsory throughout the UK. When Purdey bought an infected cow from another herd, he was able to reduce the symptoms of BSE by injecting oxime, which is an antidote to pesticide poisoning. However, officials from MAFF (the Ministry for Agriculture, Fisheries and Food) turned up to kill the cow before the experiment could be completed.

“As well as the link to phosmet use, Purdey discovered that brain diseases such as BSE and nvCJD appear in clusters in many places around the world. **The link seems to be a lack of copper and an excess of manganese.**

“For example, **in some areas of Colorado and Wyoming, 4%-6% of deer and elk suffer from CWD (Chronic Wasting Disease), which is related to nvCJD. These animals live in areas where the soils are very high in manganese.** In Slovakia, where the incidence of nvCJD is a thousand times higher than normal, most of the victims live near a glass-making plant (where manganese is used) or else downwind of

one of two large ferro-manganese factories.

“In the UK, two factors have increased the amount of manganese which cows consume. Until 1988, cows were fed chicken manure. **The chickens had been fed manganese to strengthen their eggs, but 98% of it ended up in the manure.** In addition, **a fungicide rich in manganese was used on crops** at that time.

“**According to Purdey, a lack of copper and an excess of manganese causes proteins in the nervous system of foetal cattle to change into the abnormal prion forms** found in BSE and nvCJD. Phosmet facilitates this process by binding to copper, and therefore reducing the amount available to brain tissues.

“Recently, Dr. David Brown, a chemist at Cambridge University, showed that **manganese can replace copper in brain proteins, thereby transforming them into prions.** Dr. Brown lost his funding, and was not able to continue the research.

“The BSE crisis started in the UK, and that country still has the highest rate of the disease. Purdey believes that this was because **the British Government was the only one to enforce systemic phosmet at such a high dose.** Phosmet is used elsewhere, but either on a voluntary basis, or at a much lower dose, or non-systemically.

“However, there is a long lag between the peak of phosmet use and the incidence of BSE. Purdey says that this is for two reasons. First, cows are most susceptible to phosmet damage when they are in the womb. Second, phosmet has to reach a certain concentration in the food-chain before it has an effect.

“Quite apart from the direct attacks on Mr. Purdey, **the chemical industry have launched a media campaign to discredit his research.** Although MAFF claims that any credible theories for BSE will receive funding, Purdey has received nothing.

“The effort that the chemical industry has apparently gone to discredit Mark Purdey mirrors the experiences of Alice Stewart, the scientist who first showed the link between radiation and cancer. **Scientists who supported her had their cars rammed.** Maybe in this case as well, the truth will come out in the end.”

APPENDIX 5

Human Waste Entering the Food Chain

This article is quite revealing; and, among other things, it indicates that this latest contaminant could add to the prion/mad cow problem.

“Medical Armageddon Being Paved With Human Feces In The Food Chain—*The Idaho Observer*, December 31, 2000.

“KING 5 TV (Seattle) reported Nov. 20, 2000, that thousands of tons of sewage sludge (processed human waste) that has been renamed ‘biosolids’ are being spread on farms across the state and other states throughout the country.

“The practice is cause for concern in three specific areas with regard to contamination of the food chain.

“Last month in *The Observer* we reported that traces of unmetabolized synthetic pharmaceutical drugs such as Prozac, antibiotics and hormones are turning up in the groundwater of Europe and North America. Levels of these substances are being detected because as much as 95 percent of synthetic drugs ingested are not metabolized and leave the body in their original forms through the urine and the feces. If prescription drugs are being detected in the water after it has been treated, we can infer that they will also be present in the ‘biosolids’ being spread all over the crops of this nation.

“The presence of metals in ‘biosolids’ is also a concern. The U.S. Environmental Protection Agency and Washington’s Department of Ecology claim the metal content of ‘biosolids’ processed at the state-of-the-art West Point Treatment Plant in Seattle is minimal.

“West Point Manager Dick Finger explains that raw sewage is digested, heated and spun at his facility until it’s just right for shipment to the fields. ‘We make sure the products that we produce are of a very high quality,’ said Finger.

“Government agencies also claim that the potential for the spread of transmissible disease is low because the soil upon which it is deposited will kill any remaining pathogens. ‘Am I concerned about significant impacts to human health and the environment? No, not based on the information I’ve seen so far,’ says state Biosolids Coordinator Kyle Dorsey.

“It is well-known that fully decomposed material, even if it is human waste, is beneficial to the soil as organic matter and provides plants with the nutrients needed to grow healthy and yield abundantly. Treated sewage is not fully decomposed. For government agencies to claim that ‘biosolids’ are safe is to ignore a tremendously important body of published science.

“State of Washington ‘biosolids’ policy is likely contributing to the most ominous food supply disaster looming on the human horizon: Prions.

“Prions are protein crystals that grow in grain fungi. Prions are nearly indestructible. We are being exposed to prions by eating animals such as cows that eat prion-contaminated grains. We are also being exposed to prions when we eat prion-contaminated grains.

“Prions are crystals; crystals are attracted to electromagnetic energy; our brains produce electromagnetic energy; prions attracted to our brains cause lesions called encephalopathies; encephalopathies cause swelling of the brain; swelling of the brain causes de-

mentia. Having prions in your brain also makes a person more open to suggestions that may be encoded through the transmission of TV and radio waves.

“Prion disease, which was called ‘kuru’ when it was discovered in New Guinea in the early 1960s, is called ‘mad cow disease’ in cattle, ‘whirling disease’ in fish, ‘scrapie’ in pigs and sheep, ‘wasting disease’ in wild game and Creutzfeldt-Jacob disease in people (there is data to show that as many as 200,000 Americans who have been misdiagnosed with Alzheimer’s disease may actually be suffering the ravages of prion disease).

“If our food supply is already contaminated with prions, which there is overwhelming evidence to suggest that it is, then ‘fertilizing’ crops with human waste is going to exacerbate the situation.

“‘Every organism has a food supply that it depends upon for life. If the food supply is changed or contaminated, the organism must either adapt or become extinct,’ Clyde Reynolds, N.D., explained.

“Scientists at Cornell University have serious concerns about the use of ‘biosolids’ as fertilizer. A team from Cornell tore apart the EPA’s assumptions about the safety of the sludge.

“Cornell found EPA’s Cancer Risk Assessment is ‘not protective,’ and its enforcement and oversight is ‘inadequate.’ It also found that pathogens may survive in soil, especially in cool, wet conditions.

“The team from Cornell believes that there is no way to protect the public from leaching and flooding that may spread live pathogens.

“Despite these justifiable concerns, Washington state allows sludge to be dumped in every county. There are no state-mandated testing procedures for pathogens once ‘biosolids’ are dumped.

“KING 5 test results:

“‘Bob Thode spreads 22,000 wet tons of sludge over 600 acres at his Fire Mountain Farms in Lewis County. For that, he is paid more than \$400,000 a year,’ reported KING 5 News.

“Thode’s neighbors are not impressed with his farming practices and equate living downstream from him to living downstream from a flushing toilet.

“KING 5 investigators decided to compare a sample of the sediment in one of Thode’s ditches taken in 1994 (before ‘biosolids’) to one taken in the exact same place after six years of being licensed by the state to spread the sludge on his crops above the ditch.

“Levels of all metals have increased drastically. KING 5 investigators reportedly gave test results to Dorsey, who thought that pure ‘biosolids’—not ditch sediment—was what KING 5 tested. Levels of pharmaceutical drugs were not tested, nor were the presence of prions tested.

“‘While our test is not conclusive, it has raised serious questions, and the state says more comprehensive testing may be needed,’ KING 5 concluded.

“Plants absorb metals and other soil components so long as the particles are small enough. Therefore we have no idea how much metal may be ingested upon consumption of food grown in ‘biosolid’ enriched soil.

“‘The government does not require food grown in sludge to be labeled,’ KING 5 concluded.

“Human beings are suffering the results of their own course of action in departing from the commandments of God. The beasts also suffer under the curse. Disease in cattle is making meat eating a dangerous matter. The Lord’s curse is upon the earth, upon man, upon beasts, upon the fish, and as transgression becomes almost universal, the curse will be permitted to become as broad and as deep as the transgression. Disease is contacted by the use of meat. The diseased flesh of these dead carcasses is sold in the market places, and disease among men is the sure result. The Lord would bring His people into a position where they will not touch or taste the flesh of dead animals. There is no safety in eating of the flesh of dead animals, and in a short time the milk of the cows will also be excluded from the diet of God’s commandment-keeping people. In a short time it will not be safe to use anything that comes from the animal creation.”—*Unpublished Testimony, July 26, 1898.*

“The diet appointed man in the beginning did not include animal food. Not till after the flood, when every green thing on the earth had been destroyed, did man receive permission to eat flesh.

“In choosing man’s food in Eden, the Lord showed what was the best diet; in the choice made for Israel, He taught the same lesson. He brought the Israelites out of Egypt, and undertook their training, that they might be a people for His own possession. Through them He desired to bless and teach the world. He provided them with the food

best adapted for this purpose, not flesh, but manna, ‘the bread of heaven.’ It was only because of their discontent and their murmurings for the fleshpots of Egypt that animal food was granted them, and this only for a short time. Its use brought disease and death to thousands. Yet the restriction to a nonflesh diet was never heartily accepted. It continued to be the cause of discontent and murmuring, open or secret, and it was not made permanent.

“Upon their settlement in Canaan, the Israelites were permitted the use of animal food, but under careful restrictions, which tended to lessen the evil results. The use of swine’s flesh was prohibited, as also of other animals and of birds and fish whose flesh was pronounced unclean. Of the meats permitted, the eating of the fat and the blood was strictly forbidden.

“Only such animals could be used for food as were in good condition. No creature that was torn, that had died of itself or from which the blood had not been carefully drained, could be used as food.

“By departing from the plan divinely appointed for their diet, the Israelites suffered great loss. They desired a flesh diet, and they reaped its results. They did not reach God’s ideal of character or fulfill His purpose. The Lord ‘gave them their request, but sent leanness into their soul’ (Ps. 106:15). They valued the earthly above the spiritual, and the sacred pre-eminence which was His purpose for them they did not attain.”

—*Ministry of Healing, 311-312*

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