The sudden appearance of an epidemic typically inspires rapt attention, panic and action. Once the crisis subsides, public attention wanes although the threat of contagion continues, especially among the world's poor.

Compare our response to severe acute respiratory syndrome, or SARS, with the more familiar germs that plague us daily. Compare it to the dangers of smoking or getting in a car and heading out on the road. Every life is precious, but when you look at the numbers, SARS just isn't as formidable a threat as we've made it out to be. Its death rate is far lower than that for AIDS or malaria: coronaviruses, like the one believed to cause SARS. tend to be most active in the winter and early spring.

In addition to taking the steps necessary to keep SARS at bay-watching out for new cases and isolating people who are contagious to others-we would do well to channel our energies into something more lasting: a permanent, integrated and accountable global public health system for the surveillance and prevention of the microbes that are certain to emerge in the future. Right now, worldwide accounting of disease is incomplete at best, hampered in large measure by sketchy reporting from developing countries. These gaps slowed our containment of SARS and allowed rumor to spread more rapidly than reliable information. When the facts are few, it's easy for fear to fill the vacuum.

Howard Markel, professor of pediatrics and communicable diseases at the University of Michigan, is author of the forthcoming "When Germs Travel."

THE EPIDEMIC SCORECARD

By Howard Markel and Stephen Doyle

Estimates of disease incidence and mortality are from the World Health Organization

2 MILLION DEATHS A YEAR

8 MILLION NEW CASES
A YEAR, AND CLIMBING

In the last hour, more than 200 people have died of tuberculosis

EACH YEAR 1 PERCENT

of the WORLD

BECOMES INFECTED

with the TB GERM

INFECTIOUS DROPLETS
TRANSMITTED BY
BREATHING * COUGHING *

* SNEEZING * EVEN SPEAKING *

TO BE EFFECTIVE, TB DRUGS MUST BE Taken for SIX to eight months

DRUG-RESISTANT STRAINS ARE INCURABLE (AND MULTIPLYING)

MORE THAN 100 DEATHS AN HOUR

BORNE BY MOSQUITOES

Medicines exist to fight many strains of the malaria parasite, but public health workers are concerned about drug-resistant forms of the disease. Prevention (mosquito control)

is the most effective.

MALARIA

MILLION DEATHS A YEAR

1 MILLION DEATHS A YEAR / 10-30 MILLION NEW CASES A YEAR

HEPATITIS B VIRUS

outs you at high risk for cirrhosis, liver cancer, liver failure and death

TRANSMITTED VIA

- Mother to child at birth
- Unsafe injections or transfusions
- Sexual contact

No effective treatment.

Vaccine can block chronic
infection, but its high cost
prevents its widespread
distribution in poor nations.

DIARRHEAL

(cholera, shigella, dysentery, typhoid, E. coli and others)

DISEASES

- 1.9 MILLION DEATHS A YEAR mostly infants and young children
- 2.7 BILLION NEW CASES A YEAR

Within the last hour, 200 people have died of these diseases

Transmitted by contaminated food or water

1.5 billion people do not have ready access to clean water

3.1 MILLION DEATHS A YEAR 5.5 MILLION NEW CASES A YEAR

42 MILLION PEOPLE ARE H.I.V.-POSITIVE

IN THE LAST HOUR, MORE THAN 300 PEOPLE HAVE DIED OF AIDS

And...

Cardiovascular disease (heart attack and stroke) deaths:

17 million a year Tobacco-related

deaths: 3.5 million a year

Motor vehicle fatalities:

1.26 million a year

Measles

IEARLY 900,000 DEATHS A YEAR 30 Million New Cases a Year

ENTIRELY PREVENTABLE
WITH A VACCINE THAT COSTS
26 CENTS AND HAS BEEN
AVAILABLE SINCE 1963

24,000 DEATHS A YEAR 20 MILLION NEW CASES POPULATION FOR CASES

250,000 DEATHS A YEAR 3-5 million new cases a year

Entire world affected

YELLOW FEVER 30,000 DEATHS A YEAR 200,000 NEW GASES A YEAR

SARS

353 DEATHS out of 5.462 cases in 180 days