

And it's also the reason TV images of children saved after many days trapped in rubble are so deceiving, since these youngsters usually die later in hospital.

But thanks to Dr. Solez and an international team of doctors, a sophisticated, global plan to save such victims is now in place.

Mr. Ozan was one of its first successes.

On Aug. 17, Mr. Ozan was visiting his parents' house on the outskirts of Istanbul when the city was hit with a powerful earthquake, measuring 7.4 on the Richter scale. Suddenly, the concrete house collapsed, trapping Mr. Ozan amid its dusty ruins, his right leg crushed "like spongecake" beneath him for what seemed like days.

"The pain ... and the thirst ... were like hell," he recalls.

Suddenly a doctor -- an Israeli, he thinks -- appeared and stabbed a needle into his arm. Mr. Ozan blacked out. Although it only dripped a weak saline solution into his body, that intravenous needle was a vital first step in preventing Mr. Ozan's body from poisoning his kidneys.

"In Turkey, we had a reduction in mortality among the patients who had renal failure from the usual 50% to 15%," said Dr. Solez.

"So it was really a remarkable saving of lives."

A tall, balding man who seems to travel constantly, the Edmonton kidney pathologist has investigated mass poisonings of children in Haiti, opened renal units in many Third World countries, and linked kidney experts around the world in an Internet group called cyberNephrology. "He has a tremendous, persistent drive to help people," says Dr. Norbert Lameire, the Belgian head of the International Society of Nephrology's disaster relief task force.

But the earthquake work may be what Dr. Solez will be remembered for best.

In fact, Dr. Solez is one of a handful of people alerted by the U.S. Geological Survey -- which measures seismic events around the world -- within moments of any major tremor.

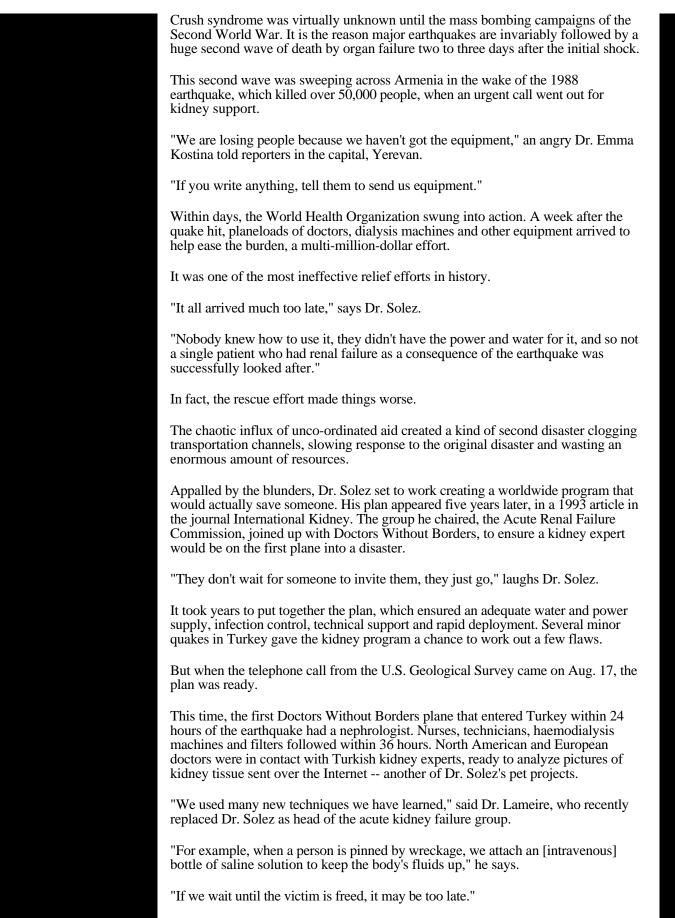
"You'd be surprised how often you get woken up in the middle of the night," he chuckles.

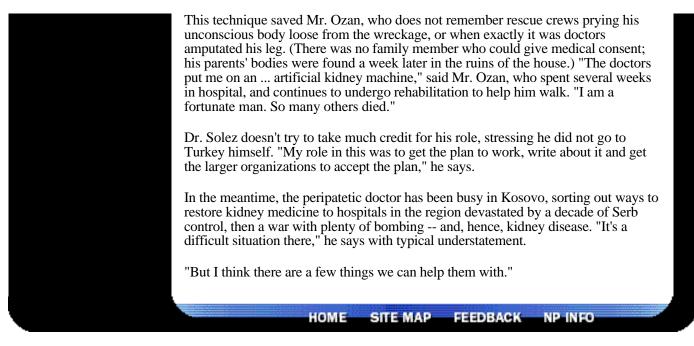
His earthquake campaign began shortly after he left Johns Hopkins Medical School for the University of Alberta, when Dr. Solez was thinking about forming a new medical society that would deal with acute kidney failure.

"It was Dec. 8, 1988, which was the date of the major earthquake in Soviet Armenia, and I suddenly realized there was one facet of this I hadn't really thought about -- the international aid these countries need when there's huge numbers of people who have renal failure."

When a body is crushed by a falling building, it sets off a catastrophic chain of medical problems.

First, crushed muscles release a huge amount of myoglobin, a protein that is injurious to the kidneys. The body goes into shock, lowering blood pressure to harmful levels. There is "third space fluid loss" -- swelling that removes fluid from the blood. And finally, red blood cells begin to break down, releasing haemoglobin, which also injures the kidneys.





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