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Electric Shock

By JOHN FRYE

It is foolhardy for radio/TV technicians, or for that matter anyone, to remain in ignorance about the nature of electrical shock and the methods of resuscitation.

"HEY, Mac," Barney said to his employer as the two of them sat side by side on the service bench drinking a couple of Cokes. Matilda, the office girl, had brought in from the drugstore next door, "do you remember our talking two or three weeks ago about the alarming number of people believed to be accidentally electrocuted in homes and at work each year?"

"Yup," Mac answered with a mouth full of cracked ice.

"Well, that started me thinking: here we are working with all sorts of voltages and currents day after day; yet I know precious little about the nature of potentially lethal electric shock or methods of resuscitation. Suddenly that seemed about as smart as for a snakehouse operator to be ignorant of reptiles and to be without snake-bite serum."

"So what did you do about it?"

"Boned up on both departments. Reading helped a lot; but I also checked with Red Cross headquarters, the new intensive-care unit at the hospital, and the emergency squad at the fire department. As a result, I now feel I know a lot more than I did about how electricity can injure the body and how to counteract the effect of such injury."

"And if I know you," Mac said with a pretended sigh of resignation, "I'm about to become the beneficiary of your new knowledge."

"You're darned tootin'," Barney said. "After all, it's more important that you know all this than that I should know it, because what *you* know may save *my* life."

"That's what I like about you: always looking out for the other fellow! But what does electricity do to the body?"

"Lots of things, mostly bad, at least when applied accidentally. A high-voltage current can arc at the point of contact and sear the flesh there. This you can see. But an autopsy often reveals that heavy current literally cooks the flesh along the entire pathway through the body. Currents heavy enough to raise body temperature appreciably produce immediate death. Relatively high currents may produce fatal damage to the central nervous system. Such currents flowing near the heart may cause cardiac arrest, and those flowing through other nerve centers can stop breathing."

"You're talking about heavy currents such as would be produced by contact with a high-voltage line, but a high percentage of electrocutions are produced by

household voltages. How much current is really dangerous?"

"That's a good question, and C. F. Dalziel of the University of California and W. R. Lee of the University of Manchester tried to find some answers. Their findings are written up under the title 'Lethal Electric Currents' in the *IEEE Spectrum* for February, 1969. The first thing they wanted to find out was the let-go current for human beings."

"Hold it!" Mac interrupted. "What's a 'let-go current'?"

"It's the maximum current at which a person can still release a conductor by using muscles being stimulated by that current. It's very important because a person can withstand repeated shocks by current below this value—at least stand them long enough to turn loose—but a slightly higher current 'freezes' the victim to the conductor. Since the damaging effect of electric shock is a function of both the amount of current and the length of time the body is subjected to it, you can see the critical let-go current, which determines whether or not the victim can voluntarily free himself from the electrical circuit, is most important."

"Dalziel and Lee exposed 134 men and 28 women to increasing current to determine how much each could take and still be able to release the small wire carrying the shocking current to their hands. The average let-go current was found to be 16 mA for men and 10.5 mA for women. While physiological development, especially in the arms and wrists, greatly influenced the let-go current, psychological factors played a part, too. The highest let-go current was obtained on a physiology student who boasted he was as good as any engineering student."

"I'm not sure average values are of much use in a case like this," Mac objected. "I still remember the guy who drowned in a river that 'averaged' only a foot deep."

"The gentlemen doing the testing agreed with you; so they decided a reasonably safe limit for electric shock would be the 0.5 percentile let-go value. On this basis, it was found safe let-go currents could be considered approximately 9 mA for men and 6 mA for women. Incidentally, no essential difference was found between 50 and 60 Hz as far as let-go current was concerned."

"Next the gentlemen turned to finding the minimum fibrillating current. As you know, the several causes of ventricular fibrillation include the flowing of electric current through the heart muscle. While this current does not actually damage the heart, it deranges the functioning of that organ. Individual muscle fibers are thrown out of sync, so to speak, and are no longer coordinated. Instead of working together to produce the rhythmic, life-giving pumping of blood through the body, they contract individually and at random, resulting in a twitching, trembling of the heart that renders it useless for circulation."

"Ventricular fibrillation is considered the most dangerous electric shock hazard because once it starts in man, it practically never stops spontaneously; *yet the brain begins to die two to four minutes after it is deprived of a supply of oxygenated blood.* If the victim is to be saved, he must receive prompt rescue and immediate and continuous artificial respiration until other resuscitating measures are available."

"I'm curious as to how the minimum fibrillating cur-

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