Other weapons

In the dispassionate language of the morgue, blunt trauma trauma, and asphyxiation account for a substantial propora, sharp homicide. But scientific jargon cannot hide the brutal reality ortion of Improvised clubs, bloody knives, or lengths of cord can bring pf murder. an end. Though marks from such weapons are not as useful, forlives to as those from guns, autopsy details may nevertheless provide virensically, ital clues.

BODY OF EVIDENCE

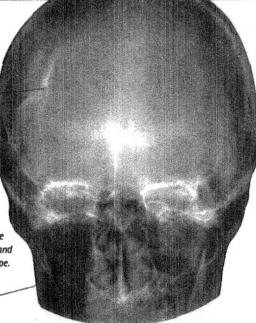
This composite picture of the human body was created using many different imaging technologies. The surrounding images show how some injuries can help to identify at least the type of weapon used to inflict them, and possibly individual characteristics as well. The marks they cause are not always obvious: deep and fatal stab wounds, for example, can close up, leaving a scarcely visible mark on the skin, with little external bleeding.

A depressed fracture typical of an assault with a small, blunt instrument shows up as a Y-shaped shadow in this X-ray

SKULL FRACTURE ▶

Blows with a broad instrument may fracture the skull, but they do not leave traces that can help identify the weapon.

Smaller weapons make marks that are more useful to an investigation. A wrench used as a club, for example, causes a bone impression that suggests its size, and grazing on the skin indicates shape.



SKIN INJURIES ♥

Known as abrasions and contusions to the pathologist, grazes and bruises sometimes show the shape of the weapon with surprising detail. Boots, for instance, can leave prints on the flesh just as they do in mud. More often, though, such marks are less characteristic: a hit from a bar-shaped weapon produces a pair of parallel bruises, indicating its width and the direction of the attack.

◀ LIGATURES

Marks on the neck of strangulation victims can provide detailed information about the weapon used, showing through bruising and grazes its size and surface texture, and even suggesting whether or not it was twisted, or applied repeatedly. However, soft material such as panty hose may not leave surface marks. Similarly, bare-hand strangulation does not leave diagnostic marks, causing only nonspecific bruising to the neck.

KNIFE WOUND ▼

Cuts reveal almost nothing about a weapon, but stab wounds do. Their shape can show whether the blade was single- or double-edged (see box), and forcible thrusts can imprint hilt marks on the skin. Dissection of such

full-length stab wounds makes it possible to estimate the blade's length.



COLLAPSED LUNG A

A collapsed lung does not in itself provide any clues to the weapon that caused it, but associated wounds may do so. Deeply penetrating stab wounds to the upper body can puncture the lung, and blunt force trauma can have the same effect if a broken rib penetrates the lung. In this picture it is the lung on the right that has collapsed.

