# Investigators of death

hether it is a warm corpse in a spreading pool of blood or a heap of dry bones, the discovery of a human body triggers a special kind of investigation. Its organization, progress, and participants depend on how the death happened-was it natural, accidental, suicide, or homicide? If there is doubt, the death is treated as suspicious.

No matter what its condition, the discovery of a corpse brings a medical examiner to the crime scene. Medical examiners are public officials that investigate all sudden, unexplained, unnatural, or suspicious deaths. They also perform autopsies and assist in criminal cases. These physicians, trained in forensic medicine, advise police on situations where law and medicine meet. Often, they can answer crucial questions at the earliest stages of an investigation, such as, was it a sexual assault, is the assailant right- or left-handed, and has the body been moved after death?

# Checking for life

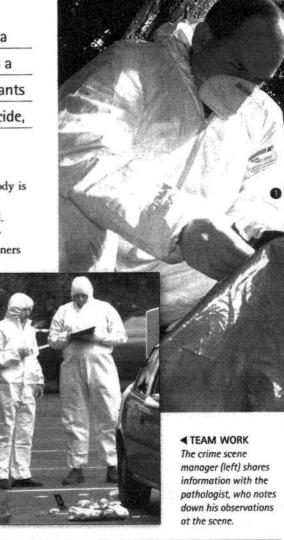
At the crime scene, though, the main responsibility of the medical examiner is to certify death. Even when a victim is

obviously dead, such as where the body is decapitated or decomposed, official certification of death is still required.

For recent deaths of between a few hours and a few days, medical examiners measure the ambient (air) temperature, since this affects the rate at which the body cools-an important clue to the time of death. They also make an initial assessment of the manner of death (see facing page).

# Medical detectives

Forensic pathologists are specialists who combine medical and legal skills. Like clinical pathologists, they are experts in injuries to and diseases of the human body. Unlike their colleagues, forensic pathologists focus on the dead



# SCENE OF CRIME OFFICER'S KIT

SAMPLE CONTAINER is useful for storing small, delicate samples such as fibers or hair. **SWABS** for taking bodily fluid samples. PERMANENT INK MARKER PEN fingerprint sheet. AEROSOL REAGENT is sprayed on surfaces and then even wiped-away bloodstains.

(5)

for recording details on an acetate

illuminated with a special light to find hidden prints and

MAGNIFYING GLASS

is used to assess the quality of prints.

**SCREWDRIVERS** 

are useful if an item of evidence such as a door handle needs to be removed and examined back at the lab for prints or tool marks.

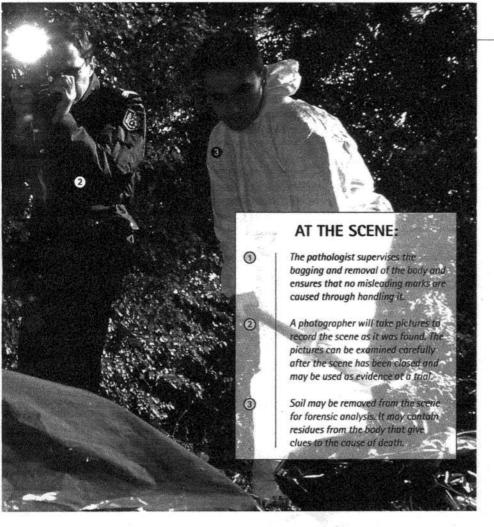
FINE FINGERPRINT BRUSH

is made of squirrel hair and used to dust delicate human prints.

**ALUMINUM DUSTING POWDER** is used for dusting fingerprints.

LIFTING TAPE

is used to collect a print and fix it to an acetate sheet.



rather than the living—and, in particular, how the cause of death may affect a criminal investigation and trial. If a suspect is caught and tried, the pathologist may be called to give evidence as an expert witness.

The work of the pathologist at the crime scene involves examining the body and its surroundings (see p. 30). Later, an autopsy at the morgue (see p. 34) will give the pathologist the chance to make a more thorough study. At the crime scene, though, the pathologist works alongside the team of investigators, which is supervised by a crime scene manager (also called a scene of crime officer or SOCO).

As the investigation moves forward, the pathologist may need the help of other specialists. If the body is in an advanced state of decay, a forensic odontologist (see p. 50) can often establish identity by examining dental records. A forensic anthropologist may also help with establishing age and gender. And, if the later autopsy suggests that the subject was poisoned, the pathologist might require

## **▲ AVOIDING CONTAMINATION**

Protective clothes worn at the crime scene are disposable, but some police forces retain them in order to demonstrate that they took appropriate care to protect the scene from contamination.

the expertise of a forensic toxicologist.

The pathologist's objectives are to discover the cause of death from an analysis of organ failure. They may also be able to give an indication as to what instrument or mechanism would have caused organ failure. With any death that raises questions, including accidental and some natural deaths, a coroner will hold an inquest, which may give a verdict of nonaccidental death, prompting a police investigation.

# The inquest

Coroners' investigations conclude with an inquest (inquiry). After listening to the evidence, the coroner returns a verdict on the manner of death—natural, accidental, suicide, or homicide—and on how, when, and where the death occurred.

# THE MANNER OF DEATH

In discovering the cause of death, the forensic pathologist contributes valuable information about the circumstances surrounding a death. This information will determine the nature of the police investigation and also helps the coroner decide whether the death was natural, accidental, suicide, or homicide.

#### NATURAL >

Most people die of natural causes, such as heart failure (shown in this X-ray). However, a death may still be the subject of a coroner's inquest if



it happened suddenly or unexpectedly, or if the person was chronically ill and had not seen a doctor within the previous two weeks.

#### **◆** ACCIDENTAL

Coroner's inquests also examine accidental deaths, but coroners may start criminal investigations if they find that accidents could

and should have been avoided—for example, because a safety guard was not in place on a dangerous machine.

# **HOMICIDE** ▶

Literally "killing a human," homicide usually means either murder, where it was the killer's deliberate intention to cause someone's death, or the lesser crime of manslaughter, where death was not the intention.



### **◀** SUICIDE

Helping someone to end their life is against the law. A suicide pact in which one person survives may also lead to manslaughter charges.

