MECHANISMS OF INJURY

is important. In many situations, this vital a casualty sustains a single or multiple injury is people who deal with the casualty at the information can only be obtained by those incident, and therefore the injury mechanism it. This is the reason why a history of the also determined by the mechanisms that caused related to how it is caused. In addition, whether The injury that a person sustains is directly

> and the forces involved. circumstances in which an injury was sustained scene – often first aiders. Look, too, at the

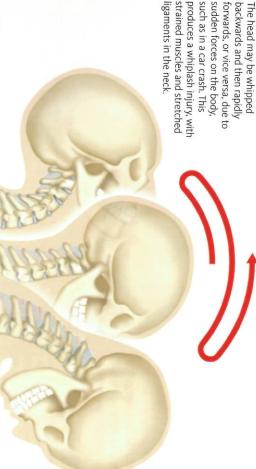
as the treatment required. This therefore helps predict the type and severity of injury, as well for the casualty. the diagnosis, treatment and likely outcome helps the emergency services and medical team The information is useful because it also

CIRCUMSTANCES OF INJURY

seatbelt whose vehicle is struck either head-on as the front of the vehicle. For a driver wearing a protection and cannot absorb as much energy sustain serious injuries in a side-impact collision This is because the side of the car provides less than in a frontal collision at the same speed. For example, a car occupant is more likely to the impact of a car crash – can be predicted if you know exactly how the incident happened. to impact – for example, a fall from a height or The extent and type of injuries sustained due

steering wheel or an inflated airbag. injuries to the face due to contact with the bruising of the heart or lungs. There may also be of the breastbone and collarbone and possibly The casualty may also have injuries caused by the seatbelt restraint; for example, fracture behind briefly before moving. This results in a be suspected. The driver's body will be suddenly or from behind, a specific pattern of injuries can "whiplashing" movement of the neck (below). propelled one way, but the driver's head will lag

strained muscles and stretched produces a whiplash injury, with such as in a car crash. This sudden forces on the body, forwards, or vice versa, due to backwards and then rapidly The head may be whipped



can mask a more dangerous injury. If a person internal bleeding. An apparently less serious fal serious injuries, such as a pelvic fracture and 2m (6ft 6in), however, is likely to produce more serious injury. A fall from a height of more than ground, he will probably suffer bruising but no from a height of 1m (3ft 3in) or less on to hard severity of any injury. For example, if a man falls another important indicator of the type or The energy forces exerted during an impact are

such as osteoporosis are at greater risk of serious injury from minor knocks or falls. elderly or those suffering from bone disorders awkwardly on to a hard surface, however, she falls down the stairs, for example, she may tell with a greater risk of injury, than a fall down fewer than five stairs. Be aware too that the A fall down more than five stairs is associated may have sustained a spine and/or head injury you that she injured her ankle. If she has fallen



Most serious injury may be hidden

casualty still, ask someone to A first aider should keep the for emergency help. support her head and call 999/112

QUESTIONS TO ASK AT THE SCENE

casualty is unable to talk to you. Possible Witnesses are especially important if the casualty, or any witnesses, questions to try questions include: to find out the mechanism of the injury. When you are attending a casualty, ask the

- Was the casualty wearing a seat-belt? ■ Was the casualty ejected from a vehicle?
- Did the vehicle roll over?
- Was the casualty wearing a helmet?
- How far did the casualty fall?

- What type of surface did he land on?
- Is there evidence of body contact with a solid object, such as the floor or a vehicle's windscreen or dashboard?
- How did he fall? (For example, twisting tissues around a joint such as the knee falls can stretch or tear the ligaments or

(pp.21 and 23). gathered to the emergency services Pass on all the information that you have