Investigation of Unnatural Death

*A Barek1, SMT Haque2

1Prof. Dr. Abdul Barek, Head, Department of Forensic Medicine
Anwer Khan Modern Medical College, Dhanmondi, Dhaka

2Dr. Syed Md. Tanjilul Haque, Assistant Professor, Department of Forensic Medicine,
Anwer Khan Modern Medical College, Dhanmondi, Dhaka

ABSTRACT
A complete systematic investigation of unnatural death helps the court hugely to give an acceptable judgement. Legal officers like officer-in-charge of a police station, magistrates, witnesses of death circumstances and the forensic pathologists are basically involved in such investigation. Proper and true documentation by investigating officer are necessary. Identification of the deceased person, cause of death, manner of death, mode and mechanism of death, time since death, weapons used to cause the injuries etc. are opined in the investigation report as per direction given in the code of criminal procedure. These matters have been discussed in this article.

Key Words: Investigating officer, police inquest, magistrate inquest, coroner inquest, medical examiner inquest, autopsy, forensic pathology.

Introduction
Human beings face death at the end of life. Death is the permanent and irreversible ceassation of the physiological functions of the most important organs of the body, viz, heart, lungs and brain. Many die of old age or a disease. This is known as natural death. Others may die due to accident or homicidal or suicidal actions. These unusual kinds of death are known as unnatural death. Some deaths, though natural i.e. due to illness or old age are so sudden or suspicious, that these need to be excluded from unnatural deaths. So, question of investigation comes in case of unnatural, sudden, suspicious or unexplained deaths. Investigation of death is necessary to punish the offender by a criminal court, to pay compensation by the defendant party to the heirs of the deceased person and to remit the wrongly accused person in case of sudden and suspicious natural deaths. There are several systems of investigation of unnatural death, viz, police inquest, magistrate inquest, coroner inquest, medical examiner inquest etc.

Discussion
Formal or official investigation of somebody’s death which is unnatural, sudden, suspicious or unexplained by an authorized officer is known as inquest.1 It is a fact finding inquiry to determine the apparent cause of death and the circumstances which lead to the death of a person. Its purposes are to find out where, when and how a person came to be dead1 and some times to find out his identification. In other words the cause of death, mode and manner of death, time of death and other circumstances of death need to be found out to complete an inquest. Some examples of accidental circumstances are road traffic accident, being knocked by road vehicle or train, a fall from a tree, balcony, or building, electrocution, lightning, death due to accidental drowning, burns by accidental toppling of a bottle lamp. Hanging, self poisoning, shooting a person himself, death by cutting one’s own neck, jumping infront of a train, jumping into a well, river or sea are some examples of suicidal circumstances. Deliberate killing of somebody else, i.e, homicidal circumstances are murder by stabbing, shooting, clubbing or cutting, deliberate poisoning of somebody, squeezing the neck of a person etc.
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Certification of Natural Death

Issuing death certificate without investigation: When a person dies in hospital or at home during the medical care of registered medical practitioners having been diagnosed with a natural illness which has resulted in death, the doctor can issue a death certificate and no further investigation is necessary. Here, the main cause of death and any underlying reason or precipitating factors may be included in the "cause of death" certificate.

In Bangladesh, police inquest and magistrate inquest are in practice. In the UK, Sri Lanka and some states of USA medical examiner inquest is done.

Police Inquest

On receiving information regarding an unnatural death FIR (first information report) form is duly filled up and signed by the informant and the police officer of the police station and it is entered in criminal register (CR) marked with a case number.

As per S-174 of the code of criminal procedures, 1898, Modified in 1995, (1) The police officer of a police station or some other empowered police officer conducts an Inquest. On receiving the information that a person. (a) has committed suicide or (b) has been killed by another or by an animal or by machinery or by accident or (c) has died under circumstances raising a reasonable suspicion that some other person has committed an offence, he shall immediately give information thereof to the concerned magistrate and shall proceed to the place where the body of such deceased person is and there, in the presence of two or more respectable inhabitants of the neighbourhood, shall make an investigation and draw up a report of the apparent cause of death, describing such wounds, fractures, bruises and other marks of injury as may be found on the body and stating in what manner or by what weapon or instrument (if any) such marks appear to have been inflicted.

(2) The report shall be signed by such police officer and other persons, or by so many of them as concur therein and shall be forthwith forwarded to the chief metropolitan/judicial magistrate or the district magistrate.

(3) When there is any doubt regarding the cause of death or when, for any other reason, the police officer considers it expedient to do so, he shall, subject to the rules as the government may prescribe in this behalf, forward the body, with a view to its being examined, to the nearest civil surgeon or other qualified medical man (teachers of forensic medicine of Government Medical College) appointed in this behalf by the government.

As per S-175, (1) a police officer investigating such unnatural death can summon in writing two or more persons acquainted with the facts of the case, and every person, so summoned shall answer truly all questions.

Magistrate Inquest

As per S-176, (1) when any person dies while in the custody of the police, the nearest authorized executive magistrate will hold inquiry into the cause of death either instead of or in addition to the investigation held by the police officer. This is called magistrate inquest.

(2) When such magistrate considers it expedient to make an investigation of the dead body of any person who has been already interred, in order to discover the cause of death, the magistrate may cause the body to be disinterred (exhumed) and examined. For exhumation, the grave needs to be identified by relative of the deceased person and the responsible officer of the graveyard. Early morning is the traditional time for exhumation. Where poisoning is suspected, samples of soil and grave water are taken from above, below and sides of the corpse, as well as a control sample from a distant part of the graveyard. Then the body is sent to the morgue. The same procedure is followed to get the body autopsied.

Coroner Inquest

The coroner, known since 1194 in the UK, is either a lawyer or a doctor employed by the city or county administration to inquire into certain types of death. The cases are reported to him by the police, the public, doctors, local registrar of deaths. He investigates the following types of death-
1. Where the deceased was not attended in his last illness by a doctor.
2. Where the deceased was not seen by a doctor either after death or within 14 days prior to death.
3. Where the cause of death is unknown.
4. Where death appears to be due to industrial disease or poisoning.
5. Where death may have been unnatural or have been caused by violence or neglect or abortion or attended by suspicious circumstances.
6. Where death has occurred during surgical operation or before recovery from anaesthetic.

On receiving a report of death from a doctor the coroner can- 1. decide not to pursue further inquiry, requesting the doctor to issue a death certificate, Or 2. can direct a forensic pathologist to conduct an autopsy. If the result of autopsy reveals natural causes, the coroner can issue a death certificate to the family for the disposal of the body. Or 3. can conduct an inquest into the circumstances of death where, when, how the person died including autopsy by a forensic pathologist. He must not direct blame either of criminal or negligent nature to any person. That will be decided by court.

The coroner inquest must arrive at a verdict, which may be one of the following-
1. Unlawful killing, 2. Accident, 3. Suicide, 4. Natural cause, 5. Industrial disease, 6. Dependence on drugs or 7. Open verdict (meaning yet the evidence is insufficient to arrive at any definite conclusion).

**Medical Examiner Inquest**

In the USA, this system of inquest was introduced in 1877. It works under public health department and can work independently. It has been gradually developed to the present high quality investigating agent on unnatural death. The medical examiner is an experienced physician in the field of Forensic Pathology. His office is adequately staffed, equipped with modern instruments, gets adequate funding from the government and enjoys adequate civil service protection. Under the law, violent deaths (accident, suicide, and homicide), suspicious death, sudden and unexpected death, death without a physician in attendance, death in jail and penal institutions fall under the medical examiner’s jurisdiction. Death of any individual dying within 24 hours of admission to a hospital is also reported to the medical examiner for a check up. Scene of death is visited by the medial examiner for a detailed history and circumstantial findings. Medical records of the deceased person are also examined. Then he decides whether autopsy and other tests are to be performed or not.

When the body is brought to his morgue, the medical examiner himself performs an external physical examination and some laboratory tests. Blood from subclavian vessels and vitreous from the eyes are taken if no autopsy is performed. If autopsy is performed, blood, vitreous, urine and bile are obtained for toxicological examination. All body fluids are taken into glass tubes or bottles. If the body is decomposed, then liver, kidney and muscles are retained. When oral medications are suspected, stomach contents also is retained. All fluids and tissue removed for toxicological purposes are kept for 3-5 years. Tissues are also retained for possible microscopic examination. In homicide cases, photographic documentation of the injuries are useful.

**Autopsy of the Deadbody**

The investigating officer (Police officer, magistrate, coroner or the medical examiner) examining the body at the scene where it was found makes a preliminary inquest report. He fills up a form (chalan or requisition form) for sending the corpse for autopsy as well. The dead body along with the copies of these two papers is sent to the morgue. In the morgue the forensic pathologist gets the body identified by the escorting police constables and relatives, if any, of the deceased person. The forensic pathologist goes through the inquest report, chalan form and talks to the relatives to know when, where, how the person came to be dead. Past medical history of the dead person is also inquired. The forensic pathologist in his...
Mechanism of death: Mechanism of death means a physiological derangement produced by the cause of death that results in death. Examples are haemorrhage, septiceamia, cardiac arrhythmia. A particular mechanism of death may be produced by multiple causes of death and viceversa. "cardiac arrest" or " cardiopulmonary arrest" is not the cause of death.

Manner of death: Manner of death explains how the cause of death came about. Manners of death are generally considered to be homicide, suicide, accident (these are unnatural) and the commonest is natural. Some manners of death may remain "undermined" as one is not sure to put them into above classes. Homicide means killing a human being by another, suicide means self killing and accident means death occurred due to an unforeseen and unexpected event and natural means death is due to a disease or old age. Another manner is rash or negligent death,death occurs due to hurried action or failure to take care by others. Sometimes a stress may precipitate a fatal cardiac arrhythmia in an apparently normal old person with ischemic heart disease. Manner of death is determined from the information about the circumstances surrounding the death site and severity of injuries, type of weapon used etc. Approximate time of death is determined on the basis of muscle flaccidity of the deceased, development of rigor mortis, rectal temperature, postmortem staining, stages of putrefaction, development of saponification and mummification.

Mode of death: Mode of death means what vital organ at first stops when a person dies. If the heart stops first, the mode of death is called syncope, if the lungs cease to function, the condition is called asphyxia and if the brain ceases to function producing unconsciousness it is called coma. These are not causes or manner of death, but may be considered as a mechanism of death.

Somatic death or clinical death: Somatic death means a person no longer functions as a unit of the society because he is irreversibly unconscious and can not communicate with the environment and is unaware of his own or the world's existence. There is complete and irreversible loss of functions of his brain, heart and lungs. It is noted that permanent loss of
cerebral cortical functions with intact brain stem functions (breathing, blood circulation) is considered as vegetative state and not death. In so-called apparent death or death trance, signs of life are interrupted or reduced to minimum for some time. Artificial life support and other emergency management may cause the person to survive.

When the investigating officer gets the autopsy report he incorporates this in his inquest report. He summarises the findings of the FIR, visit of scene of death, statement of the witnesses, autopsy report and gives a verdict whether it is a criminal case or not. If informations are insufficient he keeps it as open verdict i.e. the investigation is suspended and waits for further informations in future.

In homicidal and negligent cases, his all documents regarding the case are submitted to the criminal prosecution service for further action in the court. Rash and negligent death cases are similarly dealt with. The complainant may bring a civil action for damages. Here he needs to prove the case showing that death was due to negligence of the defendant. In suicidal and accidental cases the investigation ends at the end of the inquiry about the death without any further reference.

Conclusion

If sincere and intelligent medicolegal investigation is carried out all systems will give a fruitful result. Medical examiner inquest system sounds better because forensically experienced doctor does the investigation from the beginning to the end and he has in-depth knowledge of death. To carry out an adequate autopsy the forensic pathologist in Bangladesh needs adequate forensic knowledge and skill mordern instruments and dedication. Each one should consult with his experienced colleagues in complicated and pressurized cases.

References

1. Knight B, Medical aspects of death, In: Simpson’s Forensic Medicine, 10th Edn, Kent, Edward Arnold, P 12-27.
11. McCurdy W; Postmortem specimen collection; Forensic Sci Int 1987; 35; 61-6
16. Clark M, Application of clinical laboratory tests to the autopsy; a practical guide for specimens, Am J Forensic Med & Pathol, 1981;2; 75-82
20. Tedeschi. Future of the autopsy; a determination. Am J Forensic Med pathol 1980; 1; 103-4