Law of Individuality and Locard's Principle from Islamic Perspective

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Abstract

The term fiqh forensics is a combination of ‘the theory and philosophy of Islamic law’ and ‘the scientific approach in investigation’ which can explain the crucial need to combine and integrate these two fields. This article attempts to explore the concept of fiqh forensics and its application in life especially in the field of al-'Uqubat (punishment) within the discussion of basic forensic principles. Focus is given to the two most important principles in practical forensics namely: Locard's Principle and Law of Individuality. Deductive, inductive and historical methods of textual analysis are used in this work. The study found that the combination of these two fields is a must and it is in line with maqasid al-Shari'ah in al-'uqubat. However, the integration must be in compliance with the Islamic guideline, ethics, maxims and approaches.

Keywords: Locard’s Principle; Law of Individuality; Islamic Philosophy of Forensic Science; Forensics; Fiqh Forensics

1. Introduction

From the Islamic perspective scientific findings seldom bring disappointment for science and religion are not intended to be separated. Prophet Muhammad (p.b.u.h.) once allowed his companions to pollinate date trees using their knowledge and skills for improved yield purpose showing that Islam does not have any restriction on the application of science in worldly matters such as agriculture (al-Nawawi, 1972). Likewise the principle is applicable in the field of technology. What should be taken into consideration is the way the technology is used, its ethics and approaches, and the maxims employed. The use of DNA for example shows how the human race is blessed with the al-'Aql to help regulate the running of a society by solving criminal cases wisely. Through the application of ethics and etiquette, the optimization of the use of technology within the control of al-'Aql as science could be instrumental in helping to ensure that the maqasid al-Shari'ah is being fulfilled. Noting that the field of forensics was proven to help in solving crimes and assist other field, but academic discussion of its fundamentals is still a bizarre in Islam (Ahmad Syukran Baharuddin, et al., 2015). Previous scholars made extensive analysis on the field of al-Qarinah and al-Bayyinah and coincidently left the fundamentals of forensics part unassociated with maqasid al-Shari'ah resulting a huge gap between forensics and maqasid al-Shari'ah. With that, this paper aims to elaborate on the concept of fiqh forensics within the limitation of the Law of Individuality and Locard's Principle towards the realization of maqasid al-Shari'ah.

2. Methods

Research findings are presented from deduction analysis on data gained from scholarly documents related to the concept of fiqh forensics. These consist of relevant data from primary sources under the topic of al-Qarinah and al-Bayyinah in Islamic Law. Thus, meta-analysis is being done based on induction method to show on the integration between related phrases with the two important principles in practical forensics namely the Locard's Principle and Law of Individuality. The primary sources come from related manuscripts discussing the topics of al-Qarinah, al-Bayyinah and al-'Uqubat. Secondary sources consist of journals, books, articles, and other related materials. All of these materials are discussed thoroughly in this paper using historical, deductive, and inductive analysis.
3. Results and Discussion

3.1 The Concept of Fiqh Forensics and A Brief History of Forensics in Islam

This article tries to introduce a rejuvenated concept of integration between the application of science and Islamic criminal law. The term ‘Fiqh Forensics’ originally suggested in this article aims to demonstrate the importance of integration between science and Islamic law. No scholars have yet to define and properly discuss the concept of fiqh forensics in any Islamic classical references (Ahmad Syukran Baharuddin, et al., 2015). It has however been described as a separate chapter of al-Qarinah, al-Bayyinah and al-Qiyafah in Islamic law. Forensic pathology for example, has been highlighted in unspecified way under the chapter of ahkâm al-Jarahah (rule of wound), mafqud (al-Zayla'i, 1992) and al-Janaiz (al-Sharbini, 1994). The Arabic word ‘fiqh’ is literally described as deep understanding, full apprehension and obtaining sufficient knowledge of the religion (Ibn Manzur, 1994). Al-Zarkashî (1994) in al-Bahr al-Muhit defined fiqh as “al-Ilm bi Ahkam al-Shariyyah al-'Amaliyyah min Adillatiha al-Tafsiliyyah” (the practical knowledge of revealed rulings derived from detailed evidences or scripts) while Khatib al-Sharbini (1994) describes the relevancy of fiqh to be considered under the knowledge to concern on the actions of mukallaf whether it is permissible, prohibited, recommended and others. Fiqh is termed to cover a vast scope in everything related to the practicality of human life such in Muamalat, Munakahat, Mawarith, Ibadah, and even ‘At‘imah (foods) (al-Zuhayli, n.d.).

The word ‘forensic’ is derived from Latin word ‘forensis’ or ‘forum’ which is originally to signify the act of debating in legal circumstances. In Ancient Roman period, the senate usually held public debate in discussing political issues and government policies known as ‘forum’ (Pass, 2009). Some universities, colleges and high schools in European countries still name their debating team as ‘forensic teams’ for any debating occasion or competition. Indeed, forensic science is the skill of carrying out scientific approaches to solve cases or investigation while basic science is the combination in knowledge and other definite methods such as experiment and observation. These cases or investigations are not limited to criminalistics only but are also extended to other types of investigation. In this manner, fiqh forensics is termed to refer to a practical knowledge derived from the revealed rulings gained from detailed scripts concerning the actions of applying scientific methodology in legal purposes or investigation for the intended application in the Islamic court (Jaishankar, et al., 2010; M. Crim, et al., 2001).

As early as 1910-1800 BCE, in the story of Prophet Yusuf related by the Quran, a few events that occurred contribute significance to the concept of fiqh forensics. The first of such event was found in the verses that elaborate on the tragedy of murder attempt from his siblings; his siblings then threw him into a well. Secondly, in the accusation of sexual assault made by the wife of the Egyptian governor when the evidence from his shirt then spoke for the truth. Thirdly, in the miracle of Yusuf’s shirt brought by his siblings to Prophet Ya’qub in which Prophet Ya’qub could identify the smell of Yusuf on the shirt given even when he was blind (al-Qurtubi, 1964). Furthermore, the 400s CE is believed to be the beginning of forensic pathology when the ancient Egyptians began to perform autopsies on cadaver and presented the evidence to court (Inman, 2001). In the prophetic period of Prophet Muhammad, many events and cases related to the field of forensics appeared to be highlighted such as in the hadith related to paternity and the evidence to court (Inman, 2001). In the prophetic period of Prophet Muhammad, many events and cases related to the field of forensic pathology, has been highlighted in

In an in-depth discussion within the concept of justice and philosophy of evidence in Islam, Ibn Qayyim, al-Qarqa'i and Ibn Farhun later made mention in their manuscripts on the elaboration of each of the cases mentioned in the form of historical analysis. Their manuscripts also emphasised to include this kind of evidence as a part of al-Bayyinah definition, thus expanding the al-Bayyinah definition to a wider scope. Some of the manuscripts extensively tried to elaborate more
on sophisticated scientific approaches albeit limited to the constraint of technology at that time. The most important part is they tried to at least relate the forensic evidence with the realisation of maqasid al-shariah especially in the 'Uqubat field (Ibn al-Qayyim, n.d.; Ibn Farhun, 1986; Ibn Qayyim, 1991). Al-Furūq by Shihāb al-Din al-Qarrāfī (n.d.) added more values to the history of forensic evidence in Islam by suggesting few maxims using evidence as mean of proof. All in all, despite having advanced development in forensics technology, the origin of the concept of adapting scientific evidence and to integrate it with law is proven to be led by the Muslim community as the period of the Renaissance is believed to have started late in the 16th century. Table 1 gives the timeline of important events in forensics history:

Table 1. Timeline of Important Forensics Events from Islamic Perspective

<table>
<thead>
<tr>
<th>Year</th>
<th>Important Events</th>
</tr>
</thead>
<tbody>
<tr>
<td>1910-1800 BCE</td>
<td>In Prophet Yusuf’s period, the story of his murder, the accusation of immoral assault on the wife of Egypt’s governor, and individuality of his shirts, lead to more discussions in the topic of al-Qarinah in Islamic law</td>
</tr>
<tr>
<td>400s CE</td>
<td>Prophet Muhammad and his companions agreed in some ‘classical’ principles of forensic science such as in the use of al-Qāfīf in paternity test and in tracing culprits</td>
</tr>
<tr>
<td>500-700 CE</td>
<td>In the Battle of Badr, Prophet Muhammad used to investigate on the swords of two soldiers to determine the killer of Abu Jahal</td>
</tr>
<tr>
<td>624 CE</td>
<td>In the same battle, Abu Ubaydah al-Jarrah applied the method of estimating the strength of Quraysh troops from footprints and dung of animals and human at enemy’s camp site</td>
</tr>
<tr>
<td>700s CE</td>
<td>Fingerprint was used by the Chinese to develop identification of written material and clay carvings</td>
</tr>
<tr>
<td>936-1013 CE</td>
<td>Abu Qasim Al-Zahrawi was a famous pioneer in introducing approaches and devices for surgery through his al-Tasrif li man ‘aiiza ‘an al-Ta’lif thus, enhancing innovation in forensic pathology</td>
</tr>
<tr>
<td>1000 CE</td>
<td>Quintilian who was a Roman attorney interpreted evidence from the prints of bloody palm to seize a murderer</td>
</tr>
<tr>
<td>1149 CE</td>
<td>In Europe, King Richard for the first time suggested the idea of the coroner to carry out inquiry on certain condition of death</td>
</tr>
<tr>
<td>1204-1273 CE</td>
<td>Al-Qurtubi, in his exegesis of al-Qur’an, suggested the idea of distinguishing mingled deceased from external peculiar such as girdle, types of apparel and circumcission which is renowned as part of identification process in forensic science</td>
</tr>
<tr>
<td>1285 CE</td>
<td>Al-Furūq by Shihāb al-Din al-Qarrāfī displays the importance of adapting maxims and specific principles such as principle of individuality in investigation, exchange principle, and crime scene investigation towards evidence including forensics related evidence and al-Qarinah</td>
</tr>
<tr>
<td>1292-1350 CE</td>
<td>Ibn Qayyim wrote the book Turuq al-Hukmiyyah elaborating on the importance of forensic evidence to puzzle out crimes and cases</td>
</tr>
<tr>
<td>1320-1397 CE</td>
<td>Ibn Farhun wrote the book of Tabsirat al-Hukmiyyah wa Manāhij al-Ahkām which contains examples of integrating forensic evidence and Islamic law</td>
</tr>
<tr>
<td>1357 CE</td>
<td>Muhammad bin Ahmad al-Sharbini known as al-Khālib al-Sharbini suggested the exhumation and autopsy of the deceased in certain cases such as to save life of child in womb and to get back one’s lavish property</td>
</tr>
<tr>
<td>1398 CE</td>
<td>Forensic medicine introduced by Fidelus and high-powered microscope constructed by Anton Van Leeuwenhoek</td>
</tr>
<tr>
<td>1589 CE</td>
<td>The science of spectroscopy was developed by Robert Bunsen and Gustav Kirchhoff</td>
</tr>
<tr>
<td>1864 CE</td>
<td>Crime scene photography was introduced to the world</td>
</tr>
<tr>
<td>1879 CE</td>
<td>World famous Alphonse Bertillon developed a system to establish the identity of people using particular body measurements</td>
</tr>
<tr>
<td>1896 CE</td>
<td>First classification system for fingerprint identification was developed by Edward Henry</td>
</tr>
<tr>
<td>1904 CE</td>
<td>Edmond Locard introduced the Locard’s Principle</td>
</tr>
<tr>
<td>1959 CE</td>
<td>James Watson and Francis Crick discovered the deoxyribonucleic acid (DNA) double helix</td>
</tr>
<tr>
<td>1977 CE</td>
<td>Automated Fingerprint Identification System (AFIS) developed by Federal Bureau of Investigation (FBI), fully automated in 1996</td>
</tr>
<tr>
<td>1984 CE</td>
<td>DNA tests were applied to a criminal case and developed by Jeffrey</td>
</tr>
</tbody>
</table>

3.2 **Law of Individuality and Locard’s Principle**

These two basic principles make up the pillars of forensic science. In 1963, Paul Leland Kirk has found and made
mention of the Law of Individuality which then constituted the pillars of forensic science (Claude Roux, 2009; Kirk, 1963). Kirk claimed that the prior aim of forensics is to focus on two items which are supposed to be sourced from a single originator and to come as closely as the existing science allows. He assumed that every single thing and object in the universe is unique (Kirk, 1963). This basis determines the identification of forensic evidence in forensics analysis. Apart from that, Kwan (1977) agreed and developed some statistical methodological basis for the identification of evidence which was later known as ‘Bayesian approach’ or ‘Bayes theorem’ (Urbach, 1989). This principle then has been used widely in many forensic researches, reports, journal articles and forensics analysis and development of forensic instruments and mechanisms. It should be noted that some of those who used this principle in their report include Ewen (2011), Bradford T. Ulery (2011), Page, et al., (2011) and Giannelli (2011). In the book of Forensic Science in Criminal Investigation and Trials, Sharma (1989) elaborated more on this principle which he quoted as:

‘Every object, natural or man-made, has an individuality, which is not duplicated in any other object. It is unique. Neither the nature has duplicated itself nor man can’

(Sharma, 1989: 14)

At the first glimpse this principle looks like opposite in nature to the usual belief and observation although logically as a human we have never met or seen anyone exactly similar to ourselves in our lifetime except for twins. Michael Saks and Jay Koehler (2008) explained that it is very difficult to conclude on human characteristic to be recognizably different in nature in each particular person without checking every individual. Even though particles of sand or grains of common salt, twins or seed of plants may resemble others, but the individuality is still there. It is because of every single small fragment of the materials, the composition of crystals, specific inclusion and exclusion of unrelated substance or others are different (Sharma, 1989; Umi Kalthom & Yacob, 2003). In early 1900s, people increasingly began to identify physical characteristic such as fingerprints, blood and bones. These in turn could be used to help establish the identity of a person. Bertillon’s system of anthropometry for classifying nose types, for example, was designed on this basis (Encyclopedia of Science And Technology, 2007; Rhodes, 1956). However, this Bertillonage system suffered from a number of problems which are operational in nature such as slow, expensive, far from error free and non-availability of databases. Additionally there were several fundamental defects. Nevertheless it spurred the development of advanced technology in this forensic field for years and decades after (Bernard Roberston, 1995: 4).

Besides, distinctive quality of human has been verified and proven unique by this principle (Gary Edmond, 2013). The most definitive study has been carried out on fingerprints for an example. Millions of prints have been identified but no two fingers give the similarity on each other even from two fingers of the same individual (Alaa Ahmed Abbood, Ghazali Sulong & Peters, 2014; Matthew B. Thompson, 2013; Sharma, 1989; Urbach, 1989). Series of experiments conducted to describe on the effect of superimposition techniques for fingerprints prove that with the best superimposed techniques, even from the same finger, the similarities could not be produced due to imperfect inking, unbalanced pressure, the texture of surface of paper and several other aspects (Bernard Roberston, 1995; Bradford T. Ulery, 2011; Sharma, 1989). With the evolution of science and technology on the forensic field and with new equipment and tools developed based on this principle including the systematic database for classification based on the individuality such as AFIS database of 1977, it is proven that the principle of individuality is still relevant for the time being (Bharadi, 2010). Consequently, in
criminalistics areas of study, criminal, modus operandi, scene of crime, weapon of offence, sign, clues and everything involved in a crime are unique and has its own individuality. Recent studies show that even lip prints of human have their own individual characteristics (Kavitha, et al., 2009; Reddy, 2011; Saraswathi, et al., 2009; Verghese, et al., 2010).

Locard’s Principle which is also known as Principle of Exchange or Locard’s Exchange Principle is the most famous principle in forensics science history. It was developed by Edmond Locard who once came into conclusion in his book that ‘every contact leaves trace’ (Locard, 1920: 8). This principle accords that when a criminal and/or his tool of crime connects through physical touch with the victim or any other thing from the surrounding it leaves traces that can be analysed (R. E. Gaensslen, 1986). Similarly, this principle can also be applied if the criminal picks up traces from the same scene. The second part of this principle indicates that duration, intensity and nature of the materials in contact determine the extent of the transfer (Anthony J, 2008: 22). This principle indicates that skin and blood under a deceased’s fingernails might be found and infer that they come from the criminal (Bernard Roberston, 1995; Saferstein & Hall, 2001). Furthermore, in order to arrest a suspect on the basis of evidence, the former might come from the deceased such as clothing or fibres and yet traces of particular soil and plant types which correspond with those at the scene might also be discovered (Bernard Roberston, 1995: 3). The combination of these two principles together is of enormous potential value to the forensic scientist (Bernard Roberston, 1995: 4). As for the Principle of Exchange, Sharma (1989: 15) says that this principle is:

‘Whenever two entities come in contact, there is an exchange of traces mutually’
(Sharma 1989: 15)

Let us take a historical analysis on some cases that are related to the application of these principles in earlier Islamic history as pointed out before. First and foremost is the case study of Prophet Yusuf in the holy Quran in verse 94 Chapter 11. In this story the caravan of relatives and Prophet Yusuf’s father departed Egypt heading towards their father’s home in Palestine. Their father (Prophet Ya’qub) said to the relatives who were with him:

I feel the breath of Yusuf. If you do not think that I am in my dotage (surely you will believe me).
(Al-Quran 12: 94)

Sayyid Qutb says in his tafsir, that Yusuf’s father has been able to detect the sign of Yusuf before the relatives of Yusuf gave the shirt of Yusuf to him (Prophet Ya’qub). In this situation, after the relatives gave the shirt to him, he then recognized the scent form the shirt to be individually from Yusuf, his son (Sayyid Qutb, 1993). In relation to this story, the principle of individuality as told by Gary Edmond (2013), the uniqueness and distinctive quality of a human has been verified by the unique smell and scent from the shirt of Prophet Yusuf. In this case, Prophet Ya’qub seemed to affirm that he could identify the smell because he is the father and he knows his son better since he had brought up Yusuf. Furthermore Yusuf was also his most beloved kid (Sayyid Qutb, 1993). As in forensic science the human scent or body odour has been established to be unique to the individual since a very long time ago (Lenochova & Havlicek, 2008; Penn et al., 2007; Revathi Rajan, 2013). The whole idea of the principle of individuality of human scent is that human odour is a unique physical characteristic of every individual and that this odour is left at every place, thing, material or track which the subject has come in to chain with (Paola A. Prada, et al., 2008; Schoon & De Bruin, 1994).

In addition, in the highlighted story of the tragedy of the same prophet (Yusuf), when he was thrown into a well his siblings brought back to their father Yusuf’s shirt that was stained with blood. It is as mentioned in Surah Yusuf verse 18 which is interpreted by exegesis scholars that the siblings of Prophet Yusuf used the blood of a lamb instead of the blood of Prophet Yusuf as an evidence for the latter’s death (al-Suyuti, 1993; Sayyid Qutb, 1993; Sha’rawi, 1997). As a construct of the crime their father has recognized that the blood was not from a human based on his earlier experience as a shepherd. In fact, the recognition of types of blood can also be classified under the Principle of Individuality (Joysey, 1959; Karl Lansteiner, 1934, p. 1041).

In another instance these two principles are also highlighted in the story of the death of Abu Jahal in the Battle of Badr (Ibn Rajab, 1996). There were two young Ansari boys namely Mu’adhd bin ’Amru bin al-Jamuh and Mu’adhd bin ’Afra. Both of them attacked Abu Jahal with their swords and struck him to death. They returned to Prophet Muhammad (p.b.u.h.) to inform him of that particular incident (Ibn Rajab, 1996). Prophet Muhammad (p.b.u.h.) investigated on the swords and confirmed that they both have struck Abu Jahal but the salab (spoils) of war would be given to Mu’adhd bin ’Amru bin al-Jamuh. This is due to the finding by the Prophet that the sword of Ibn al-Jamuh had been driven deep in the body of the killed man, Abu Jahal (Ibn Rajab, 1996; Khan, 1997). Law of exchange states that when a man and/or his tool of crime connects through physical touch with the victim or any other thing from the surrounding it leaves traces that can be analysed (Claude Roux, 2009; Peschel, et al., 2011; R. E. Gaensslen, 1986). This principle can be applied to the
investigation by Prophet Muhammad (p.b.u.h.) on both swords as they had not yet cleaned the swords at that time (Ibn Rajab, 1996).

The application of these two principles are clearly demonstrated and reported in the Islamic history and it cannot be doubted that they are part of the most important principle in forensic evidence as they are keys to other principles. Hence, as a conclusion, these two principles of individuality and the principle of exchange are applicable in Islamic law, proven by historical analysis of some cases that have used them as a basic principle. Therefore, the integration of these two principles with Islam can be drafted as in Figure 2.

Figure 2. Law of Individuality and Principle of Exchange in Relations with Maqāṣid al-Shari‘ah Reconstructed from Bernard Roberston (1995) and al-Shātibi (1997)

### 3.3 Forensic Evidence, al-Qarinah, and al-Bayyinah

Significantly, this topic offers an evergreen discussion in relation to Islamic law and jurisprudence within the interpretation of various scripts of al-Qur’an and al-Sunnah. By the time of Caliph Harun al-Rashid, Qadi Abu Yusuf suggested the rethinking of the admissibility and the presence of evidence in judging any case related to the complaint made by a claimant (Hallaq, 2004). Moreover, three different views in the definition of al-Bayyinah give a never ending debate in order to include al-Qarinah or forensic evidence under the classification of al-Bayyinah. The first opinion proposed by the Shafis (al-Sharbini, 1994), Hanafis (al-Sarkhasi, 1993) and Hanbali schools (Ibn Qudamah, 1968) which concluded al-Bayyinah as only the testimony of witnesses (al-Shahadah). Meanwhile Ibn Hazm later added ‘ilm Qadhi (knowledge of judge) into the definition and considered it as the strongest type of al-Bayyinah (Ibn Hazm, n.d.). The third view is represented by the jurists of the seventh century of Hijrah, namely; Ibn Taymiyyah (1995), Ibn al-Qayyim (n.d.), Ibn Farhun (1986), Abu al- Hasan al-Tarabulusi (n.d.), and Ibn al-Ghars (n.d.) in which, after a long elaboration relating to the maqāsid, they came to the conclusion that al-Bayyinah is a name for anything that can demonstrate the truth which duly extends the meaning beyond the testimony of witnesses and ilm Qādi. This study believes that forensic evidence could be categorized as part of al-Bayyinah by referring to the third view based on the strong daili given and also because it contributes better to maqāsid ‘Uqubat as argued by al-Zuḫayli, (2006, p. 586). With that, forensic evidence is included under the classification of al-Bayyinah and could also be referred to as al-Qarinah.

Truly, al-Bayyinah is a crucial part of the realization of maqāsid al-Shari‘ah. Maqāsid al-Shari‘ah is the implementation of Islamic law in order to help ensure that justice is upheld and injustice is eliminated (Ibn ‘Ashur, 2001). Maqāsid is also a systematic approach and process in preserving the human institutions that cannot be achieved without any emphasis on the human institutional law. The focus of Islamic law (criminal law) namely al-Hudud, al-Qisas, al-Diyat and al-Ta‘zir are to educate the wrongdoer, to give satisfaction towards the victim and the family and provide instruction (model) to the people so as not to do the same misdeeds, crimes or wrongdoings (al-Sulami, 1991; Ibn ‘Ashur, 2001; Ibn
These prior elements of Islamic law are contributing to preserve al-Darüriyyât al-Khamsah in maqâsid al-Shari'ah (al-Shâtibi, 1997). Consequently, al-Bayyinah is one of the means of proof to help the judge come into a correct decision (M. M. al-Zuhayli, 1982). It plays important role in the preservation of al-Darüriyyât al-Khamsah in every related element such as in the preservation of al-Mal (property), human rights and al-Nasl (lineage) (Mulhim, 2005). Hence, the role of forensic evidence as al-Bayyinah alternatively provides a new way out to the issues of inconsistency and fallacy in the implementation of Islamic law.

3.4 Relationship between Locard’s Principle and Law of Individuality with Maqasid ‘Uqubat

Although these two basic principles have never been mentioned clearly in any classical manuscripts, these principles give significantly big impacts towards the realisation of maqasid of Islamic law. Etymologically, maqâsid is a plural form of the word maqṣud or maqṣad which means the objective, aim and also intention (Ibn Manzur, 1994). He also defined the word derived from al-qasdu which also refers to al-'adlu (justice). Discussed in detailed and specific form during 500 A.H. by Imam al-Haramayn al-Juwayni, this field developed until end of 700 A.H. According to Imam al-Shatibi the definition of maqṣad is different due to their understandings of scripts. In general, Maqsid Shari'ah refers to the objectives and aims of divine law for the human benefits whether it is for the personal or public context.

As mukammilât to al-Darüriyyat, the two principles of forensic science in this study demonstrate on how al-Bayyinah plays a vital role in accomplishing Maqasid ‘Uqubat (Mulhim, 2005). The role of al-Bayyinah as a means of alternative proof addresses the deficiency of finding the right certified witnesses in accordance to syara’. Forensic science, if it cannot technically solve some cases, could at least act as a deterrence and reminder to criminals that evidence can speak for itself. Forensic science and legal practice cannot be established without sound basis and foundation. As proven from history and the development of technology these principles of forensics could also be the foundation in realising Maqasid ‘Uqubat. Figure 3 shows the connection between forensics principles and Maqasid ‘Uqubat.

Figure 3. The Role of Forensics Principles in Realising Maqasid al-’Uqubat adapted from al-Shâtibi (1997), Sharma (1989), Kamdar and Pandey (2011), al-Zuhayli (1982) and Ibn al-Qayyim (n.d.)

4. Implications of the Research

1. This study found that forensic science had been used widely in Islamic history and has its own fiqh.
2. The literature review of this study can be an eye opener to further researches in the field of the philosophy of forensic science in Islam
3. The results of the study indicated a positive relation between forensic science, al-Qarinah and Maqasid al-’Uqubat in order to rejuvenate Islamic Criminal Law.
5. Conclusion

The integration between forensic science and Islamic law rejuvenates and refreshes the way the world sees and thinks about Islamic law. It is a crucial need to integrate between science and Islamic law as the Islamic history has never separated them. This paper suggests that more extensive literature and research be made to investigate other native and non-native principles of forensic science. It would be a huge loss to Islamic law if this field cannot benefit the Muslim community at least as deterrence and a sign of warning to aspiring criminals or wrongdoers as the forensic evidence can speak for itself. Moreover, the fallacy in understanding this integration and the concept of fiqh forensics can lead to a big loss and waste to Muslims as it is one of the best tools to keep and preserve justice in human life thus providing and sustaining benefits and eliminates harm.

References

Al-Quran


Interpreting Evidence: Evaluating Forensic Science in the Courtroom. United Kingdom: John Wiley & Sons Ltd.


A Review of Fingerprint Image Pre-processing. Jurnal Teknologi, 69(Special Issue), 79-84.


Interpreting Evidence: Evaluating Forensic Science in the Courtroom. United Kingdom: John Wiley & Sons Ltd.

A Review of Fingerprint Image Pre-processing. Jurnal Teknologi, 69(Special Issue), 79-84.


A Review of Fingerprint Image Pre-processing. Jurnal Teknologi, 69(Special Issue), 79-84.


Interpreting Evidence: Evaluating Forensic Science in the Courtroom. United Kingdom: John Wiley & Sons Ltd.

A Review of Fingerprint Image Pre-processing. Jurnal Teknologi, 69(Special Issue), 79-84.