



Assessment of Forensic Medicine and Toxicology Using DEMATEL Method

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Abstract

Forensic toxicology is In frame tissues and fluids Medicines and various poisonous compounds Discovering and interpreting what exists It is an inclusive multidisciplinary field. Posted by Information Resources in Toxicology Fifth Edition 2020. A number one survey, or preliminary evaluation, is designed to help an emergency responder identify instantaneous threats to existence. Immediate existence threats normally contain the patient's ABCs, and each of them is accurate. Life-threatening troubles have to be identified first. Forensic Medicine and Toxicology is multiple Technicen. DEMATEL (Decision Making Trial and Evaluation Laboratory) they are divided into analysis using the Forensic Medicine and Toxicology in Forensic Medicine And Toxicology, Assessment of the victim, Medical and gynecological history, Physical top-to-toe examination, Genito-anal examination is Evaluation Parameters Forensic Medicine and Toxicology in the value. Forensic Medicine and Toxicology is got the first rank whereas is the Assessment of the victim is having the Lowest rank

Key words: Neural Networks, Soft computing, Fuzzy logic and neuroscience, MCDM Method.

1. Introduction

In the multidisciplinary discipline of forensic toxicology, drugs and other potentially harmful substances are found in body tissues and fluids and are identified and interpreted. 2020, Fifth Edition of Information Resources in Toxicology. A number one survey, or preliminary evaluation, is designed to help an emergency responder identify instantaneous threats to existence. Immediate existence threats normally contain the patient's ABCs, and each of them is accurate. Life-threatening troubles have to be identified first. An obstetric record involves asking the affected person questions related to her current and previous pregnancies. Some questions are very non-public, so true communiqué abilities and a respectful way is clearly important. A gynecologic record is an evaluation of the lady reproductive system. This can be a delicate subject for a few ladies, and it's far essential to treat any statistics with sensitivity and admire. However, the health practitioner cannot pull away from asking clinically applicable questions. Physical exam is the method of assessing objective anatomical findings via remark, palpation, palpation, and auscultation. The facts obtained must be thoughtfully incorporated with the patient's history and path body structure. A thorough head-to-toe assessment is recommended, starting with the patient's overall examination and then moving to the head, ears, eyes, nose, and throat. Then, systematically move your body down. Genito- part of the word refers to "genital organs". As you may have guessed, the urinary part of the word means relating to the organs that secrete and excrete urine." Genital means "pertaining to the genital and urinary organs. Protect any evidence. Blunt trauma injuries include contusions, lacerations/leaks, hemorrhages, avulsions, fractures, and lacerations. Sharp force injuries include puncture wounds, lacerations and cuts. Although scratches and cuts both involve a break in the skin, they are not synonymous, and the terms should not be used interchangeably.

2. Forensic Medicine and Toxicology

Forensic medicinal drug and toxicology are taught in the ultimate two years of scientific students' studies, in addition to taught to 1/3-year college students at the pharmacy school. Finally, the department unifies all graduate student research and publications throughout the many domains of toxicology and forensic medicine [3]. Due to their significant legal implications, especially in civil and criminal cases, forensic toxicology and forensic medicine are precise among all other scientific disciplines. Metabolomics, the most recent of the "comic's sciences," may be one of the most effective tools for monitoring changes in forensic domains, according to new high-throughput technologies that have been adapted from chemistry and physics. Metabolomics is a particular technique that permits measuring metabolic adjustments in a multicellular machine the use of two extraordinary techniques: cantered and untargeted. Targeted research cognizance on a recognized range it also aims to capture changes. Targeted metabolism is a All metabolites found in the sample. In either cases special statistical techniques univariate

or multivariate facts, gadget mastering can be used to extract useful and critical statistics. These assessment ambitions to describe the role of metabolomics in forensic toxicology and forensic remedy. [2]. A big share of patients (33%) whose scientific reputation may be opens the door for some forensic concerns regarding crucial elements of the diagnosis process in cases of suspected psychiatric disorders, but not primarily because of bullying. a result of artworks. The issue of obtaining objective evidence of the patient's record is crucial. Surveys, organisation interviews, co-worker testimony, and court cases, where accessible, are important factors for forensic assessment of causality in bullying cases. No doubt, the prognosis cannot be primarily based entirely at the alleged bullying because of the patient's records [4]. If the social component of our individuality is at ease, the difficulty will boom hobby among students. We must take into account that forensic remedy is also part of social medicinal drug along with fitness, social medicinal drug and general practice. For instance, the reader will omit a detailed discussion of the problem of suicide, that's often encountered with the aid of the forensic pathologist and the overall practitioner [5]. Forensic Evidence in Wildlife Crime Investigations turned into proposed in the Eighties and changed into constructed and commissioned in 1989 in Ashland, Oregon. Additional potential for wildlife and home animal forensics instances has been hooked up within the United States and in evolved and a few underdeveloped nations to facilitate the assessment of evidence associated with unlawful pastime regarding animals, especially natural world [6]. To give some indication of the scope and opportunities of forensic entomology and the concern, and secondly, to record a few statistics approximately wintering situations - an element of the challenge rarely touched upon within the forensic literature [7]. Metabolites found in biological structures, described as metabolites, encompass internally derived biochemicals such as steroids, carbs, fats, vitamins, amino acids, and fatty acids. Although forensics is still in its infancy, the metabolomic technique is helpful for a variety of legal issues such as the evaluation of post-mortem BMI, C programming language to identify novel biomarkers with better diagnostic performance than existing or expected metabolomic techniques. Mortality hazard in international sicknesses [8]. Forensic pathology, forensic technological know-how in fashionable or medical forensic remedy. We have spent many years imagining disasters of a totally extraordinary nature, making ready protocols for proper recuperation and identification of victims, reconstructing the pattern of loss of life, and accumulating evidence in cases ranging from explosions to tsunamis, from mass disasters to voluntary homicides, child abuse, or manslaughter; yet these days, our morality also seems almost impotent [9]. The forensic problems become initiated by way of the Vienna Court case. Two elderly women (sisters) were discovered dead in an condominium in Vienna in 1992 and it's miles clear from the condition of their our bodies that they were there for a long term, likely years. The query of how long the women lay there and which of them died first is central to numerous coverage claims [11]. The fields specifically protected with the aid of scientific forensic medicine have undergone time-related adjustments based on German literature from the 20th century. In the daily operations of medical educational institutions, some areas of forensic sexology—virginity detection, proof of fraudulent abortion, potential gundi, potential gerund, and potential concipients have lost significance, while rape and sexual abuse victims continue to hold a prominent place. The assessment of suspected toddler abuse has gained significance since the 60s, and way to Elizabeth Troup-Becker, this problem is now also being addressed in clinical medicinal drug [15]. Although these ideas are basically speculative at this factor, such epigenetic mechanisms ought to be considered in future analyses of interindividual variation in drug and poisonous reaction, and they expand the boundaries of classic pharmacokinetics and toxicology. Forensic packages, monitoring pharmaceutical methods, detecting precancerous lesions, pollutants tracking, detecting biological conflict agents, and investigations into mobile metabolism; and hyper spectral display and close to-infrared imaging for chromosome identification and tumour analysis, optical biopsies, and investigations of Alzheimer's, epilepsy, schizophrenia, and other disabling diseases [13]. The multidisciplinary field of forensic toxicology deals with the identification and analysis of drugs and other potentially toxic substances found in body fluids and tissues. From Toxicology Information Resources Fifth Edition, 2020. Although these thoughts are in simple terms speculative at this factor, such epigenetic mechanisms must be considered in future analyzes of interindividual variant in drug and poisonous response, and they make bigger classical barriers. [18]. A casualty assessment, primary survey or initial evaluation, is designed to help the emergency responder discover instant threats to existence. Immediate lifestyles threats typically contain the affected person's ABCs, and every of them is accurate. Life-threatening troubles must be recognized first. There are commonalities not only in studies of retribution and offending, however additionally among perpetrators and victims. However, this overlap may be greater extreme for minors. Used records from the National Youth Survey to have a look at the connection among delinquency and recidivism and discovered sturdy links and resemblances between the factors that contributed to each outcome [21]. Assessment initial provider, termination, follow-up, approach in person, mail, Smartphone, who contacts the patron and what's said, and the quantity to which non-responders are followed up none, some, huge. For instance, administering a pleasure scale without delay after a mediated verbal exchange with the offender and administered in character by the mediator can also prefer distorting pleasure reports because of the halo impact initial relief or high-quality expectancy surrounding the mediation [22]. Through assessment, great studies, we recognise extra about violence chance, consisting of threat factors, risk evaluation and hazard control. Armed with this knowledge, many in the subject have designed risk evaluation equipment to help are expecting and prevent violence [23].

Medical and Gynecological History: An obstetric history includes asking the patient questions associated with her current and former pregnancies. Some questions are very non-public, so desirable communicative skills and a respectful way is absolutely important. A gynaecologic history is an assessment of the lady reproductive gadget. This may be a delicate problem for a few ladies, and it is critical to treat any statistics with sensitivity and appreciate. However, the doctor can not shy away from asking clinically relevant questions. The reasons of infertility are nonetheless unknown however, malnutrition and folic acid deficiency may be crucial. Treatment of CT with a gluten-unfastened weight-reduction plan does not absolutely correct those problems and sufferers with this circumstance will need counselling inside the destiny. Co-management with obstetricians can also have a few gains at some stage in being pregnant and ought to be taken into consideration for early referral, given the low fertility [24]. Gynecological history of postmenopausal girls in poverty in comparison to postmenopausal women of centre and top financial instructions. To check this hypothesis, we performed the look at described right a population of postmenopausal women living in poverty. Canary Islands, Spain, and Europe were used to assess their gynaecological and obstetrical histories, and they were compared to a group of girls who did not live in poverty. [25].

Physical top-to-toe Examination: Physical exam is the method of assessing objective anatomical findings through commentary, palpation, palpation, and auscultation. The facts received should be thoughtfully included with the affected person's history and path physiology. A thorough head-to-toe evaluation is recommended, beginning with the affected person's general exam and then shifting to the head, ears, eyes, nostril, and throat. Then, systematically pass your frame down. Physical exam blended with a ten-point tick list. Investigators said a blended screening sensitivity of 89% for detecting toddler abuse, with a fake advantageous price of simplest 1% sixteen. The person sensitivity of entire-frame examination has no longer been pronounced. A complete body inspection, also known as a head-to-toe exam or TTI, was introduced to the SPUTOVAMO utilised in the emergency department of the Academic Medical Center in Amsterdam in 2010 as a result of those findings [26]. The district nurse's responsibilities and physical evaluation skills. It specifically addresses district nurses' thoughts on how they might apply skills learned in a new module added to a network health care nursing degree at a college in London. Physical assessment skills are traditionally thought of as belonging to the doctor's job; but, with the expansion of nursing roles, it has been suggested that they have become a central nursing skill. [27].

Genito-anal examination: Genito- part of the word refers to genital organs as you may have guessed, the urinary a part of the phrase way "regarding the organs that secrete and excrete urine." Genital approach "pertaining to the genital and urinary organs." Numerous circumstances can result in genital-anal injuries in victims of sexual assault. Due to forensic examination, injury documentation, and report coaching, fitness care becomes a mission. Accidents caused by the presenters' presence or absence allow for the future imposition of costs against the guilty. Here is the purpose of the paper is to determine the pattern of genito-anal accidents and factors related to making allegations [29] against the accused. Most jurisdictions have advanced or have get entry to forensic checking out protocols that meet nearby legal and laboratory necessities, and there are numerous respectable forensic texts that deal with the entire scope of this topic. This paper does now not are searching for to update those, but objectives to offer a trendy review for the medical doctor and pathologist forensic examiner with points to recollect on the subject of the examination of relevant frame surfaces and openings mouth, vagina and anus. The particular nature of infant and elder sexual abuse must be taken into consideration one by one and could now not be discussed on this paper. Similarly, internal pelvic dissection is a critical adjunct to external/scientific Geno-anal examination at autopsy, however is frequently left out [30].

3. DEMATEL

The DEMATEL method is a specific problem, pinup binding Work through problems and a hierarchical structure Contribute to identifying workable solutions Structural modelling techniques, for one reason Interrelationships between components of the organization Dependency identification and context It can affect the basic concept of relationships. And Chart direction due to influence of elements Makes more use of graphs [15]. DEMATEL Based on the basic principle Structured, its visualization Processes problems by method and analyzes and solves. Modelling this structure Approach adopts the form of a driven diagram, which is a causal effect for presenting values of influence between interrelated relationships and factors. By analysing the visual relationship of conditions between systemic Factors, all components a causal group and the effect is divided into groups. It also provides researchers with Structure between system components Better understanding of the relationship and complexity for troubleshooting computer problems can find ways [16]. The DEMATEL system is integrated Emergency management together Manage. In the manner proposed, it is not necessary to defuzzify obscure numbers before using the DEMATEL method. Therefore, this method is uncertain of evaluation Will truly reflect the character. Finally, to get the final results from different aspects Twice in each integrated PPA We use DEMATEL, which is ours [17]. Decision Testing and Assessment Laboratory (DEMATEL). The DEMATEL method is a powerful method gathering team knowledge to build a structured model and visualizing the causal relationship of subsystems. But crisp values the ambiguity of the real world Is adequate reflection [18]. DEMATEL explores the interdependence between equity the amount of investment factors and factors and ANP to assess their dependencies Integrates. This section is, first of all, DEMATEL Establishes network relationships through, secondly, for each

factor ANP to increase weight compared to Uses. Third, systematic data collection process is provided [19]. The DEMATEL method effectively calculates the consequences between criteria, which efficiently separates the set of complicated elements right into a sender organization and a recipient institution and transforms it right technique to choosing a management gadget Between alternate configurations Explicit Priority Weights come from in addition, the ZOGP model allows companies to make full use of limited resources for planning to implement optimal management systems [20]. This influence and causal Group barriers pro or Source for affected group barriers can be considered due. Therefore, in order to effectively implement electronic waste management, barriers belonging to a causal or an influential group should be considered on a priority basis. Therefore, decision makers need to determine obstacles the legal framework is strong make sure there is controllable in order to minimize impact or influence barriers. Therefore, derived from ISM and DEMATEL methods the results are somewhat consistent. Integrated ISM DEMATEL Results for e-waste management constraints determines not only the structure but also the structure the interactions between these barriers [21]. DEMATEL studies, specific purpose for which DEMATEL is used. categories: Factors or Only relationships between criteria The first type of clarification; Second type is to identify the main factors in terms of causal relationships and interrelationships size; The third category is relations of criteria and analysis of impact levels by doing the scale determines the weight [22]. Accordingly, the preliminary drawback (cluster one) became about topics including the comparative weights of selection makers in the DEMATEL approach who did now not well bear in mind linking to the team decision making. Obviously, in a group decision-making hassle, regular decision-makers can always trust their factor of view and count on it to be prevalent via other selection-makers. This way that very last evaluation guides must be close to their judgments, and if the very last assessment effects are near their critiques, the choice maker is willing to simply accept it; otherwise, they may deny it. It is believed that a significant purpose for the aforementioned discrepancies lies in methods based on unstructured comparisons such as DEMATEL [23]. DEMATEL is widely accepted for analyzing the overall relationship of factors and classifying factors into cause and effect types. Therefore, this article considers each source as a criterion in decision making. Based on DEMATEL, the significance and level of significance of each piece of evidence can to deal with a mixture of conflicting evidence, it is necessary to expand the DEMATEL method with the source theory for better conclusions. In this article, instead of the comparative criteria provided by the experts in DEMATEL [24], the corresponding propositions between the bodies of sources are changed. The DEMATEL technique used the as well as creating causal relationships between criteria for evaluating the Integrated Multiple Scale Decision Making (MCDM) Outreach Personnel Program. Integrates DEMATEL and a new cluster-weighted system in which DEMATEL system is a company the reason for the complexity between the criteria this is to visualize the structure of relationships It is also used to measure the influence of criteria. Buyukozkan and Ozturkcan integrated ANP and DEMATEL an innovation in terms of technology have developed an approach, which is for companies Helps determine important Six Sigma Projects and logistics specifically prioritize these projects Helps to identify in companies [25].

4. Analysis and Discussion

TABLE 1. Forensic Medicine And Toxicology

	Forensic Medicine And Toxicology	Assessment of the victim	Medical and gynaecological history	Physical top-to-toe examination	Genito-anal examination	Sum
Forensic Medicine And Toxicology	0	1	4	2	2	9
Assessment of the victim	3	0	2	1	1	7
Medical and gynaecological history	2	1	0	3	2	8
Physical top-to-toe examination	2	3	2	0	2	9
Genito-anal examination	2	1	1	2	0	6

Table 1 shows that DEMATEL Decision making trail and evaluation laboratory in Forensic Medicine And Toxicology with respect to Forensic Medicine And Toxicology, Assessment of the victim, Medical and gynaecological history, Physical top-to-toe examination, Genito-anal examination.

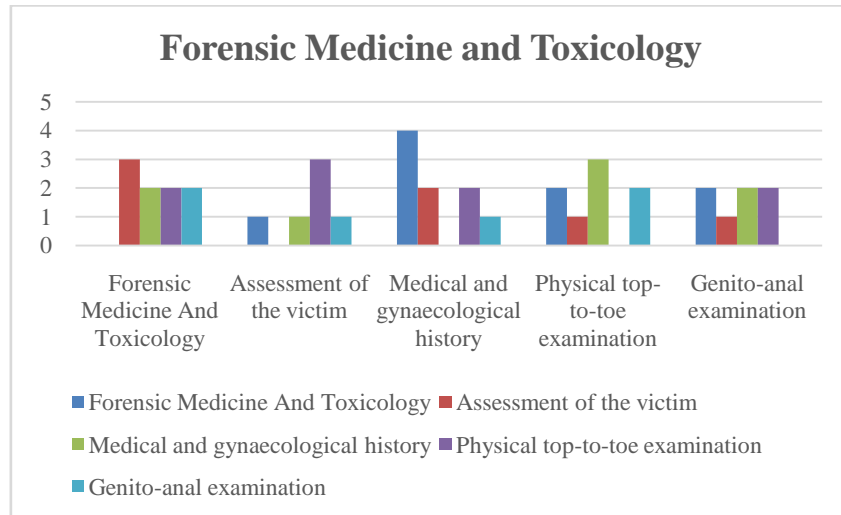


FIGURE 1.Forensic Medicine and Toxicology

Figure 1 shows that DEMATEL Decision making trail and evaluation laboratory in Forensic Medicine and Toxicology with respect to Forensic Medicine and Toxicology, Assessment of the victim, Medical and gynecological history, Physical top-to-toe examination, Genito-anal examination It is the Forensic Medicine And Toxicology and comparison of Forensic Medicine And Toxicology is sum of the image.

TABLE 2. Normalization of Direct Relation Matrix

	Forensic Medicine And Toxicology	Assessment of the victim	Medical and gynaecological history	Physical top-to-toe examination	Genito-anal examination
Forensic Medicine And Toxicology	0	0.111111111	0.444444444	0.222222222	0.222222222
Assessment of the victim	0.333333333	0	0.222222222	0.111111111	0.111111111
Medical and gynaecological history	0.222222222	0.111111111	0	0.333333333	0.222222222
Physical top-to-toe examination	0.222222222	0.333333333	0.222222222	0	0.222222222
Genito-anal examination	0.222222222	0.111111111	0.111111111	0.222222222	0

Table 2 shows that the Normalizing direct relation matrix in with respect to Forensic Medicine And Toxicology, Assessment of the victim, Medical and gynecological history, Physical top-to-toe examination, Genito-anal examination with respect to Forensic Medicine And Toxicology, Assessment of the victim, Medical and gynecological history, Physical top-to-toe examination, Genito-anal examination. The diagonal value of all the data set is zero.

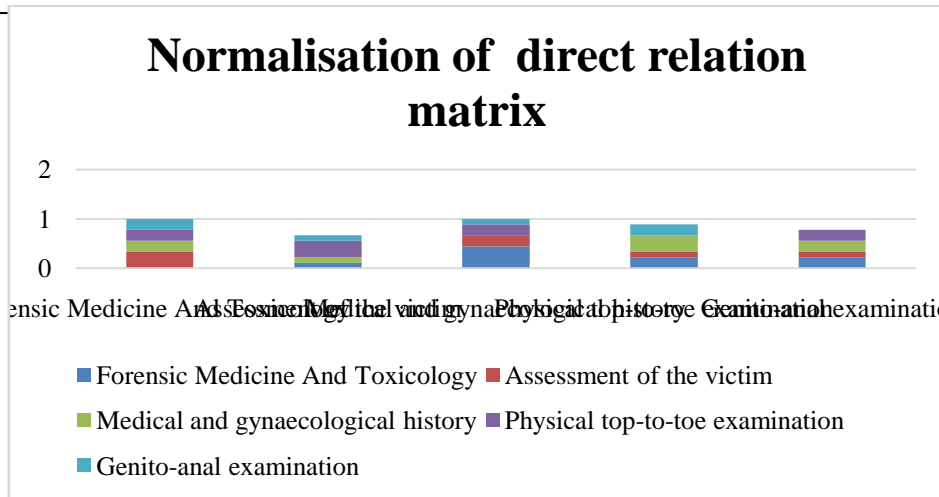


FIGURE 2. Normalization of Direct Relation Matrix

Figure 2 Shows that chart for Normalizing of direct relation matrix Forensic Medicine And Toxicology, Assessment of the victim, Medical and gynecological history, Physical top-to-toe examination, Genito-anal examination has Different value.

TABLE 3. Calculate the Total Relation Matrix

	Forensic Medicine And Toxicology	Assessment of the victim	Medical and gynaecological history	Physical top-to-toe examination	Genito-anal examination
Forensic Medicine And Toxicology	0	0.111111	0.4444444444	0.222222	0.222222
Assessment of the victim	0.3333333	0	0.22222222	0.111111	0.111111
Medical and gynaecological history	0.2222222	0.111111	0	0.333333	0.222222
Physical top-to-toe examination	0.2222222	0.33333	0.22222222	0	0.222222
Genito-anal examination	0.2222222	0.11111	0.111111111	0.222222	0

Table 3Shows theCalculate the total relation matrix in Forensic Medicine And Toxicology in Forensic Medicine And Toxicology, Assessment of the victim , Medical and gynaecological history, Physical top-to-toe examination, Genito-anal examinationis Calculate the Value.

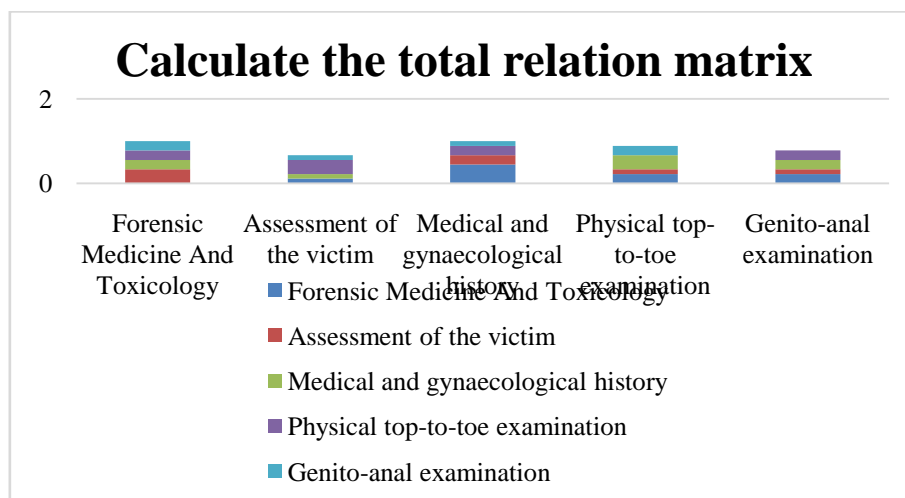


FIGURE 3. Calculate the Total Relation Matrix

Figure 3 shows the Calculate the Total Relation Matrix in Forensic Medicine And Toxicology in Forensic Medicine And Toxicology, Assessment of the victim , Medical and gynaecological history, Physical top-to-toe examination, Genito-anal examinationis Calculate the Value.

TABLE 4.T= Y(I-Y)-1, I= Identity matrix

1	0	0	0	0
0	1	0	0	0
0	0	1	0	0
0	0	0	1	0
0	0	0	0	1

Table 4Shows theT= Y(I-Y)-1, I= Identity matrix in Forensic Medicine And Toxicology in Forensic Medicine And Toxicology, Assessment of the victim , Medical and gynaecological history, Physical top-to-toe examination, Genito-anal examination is the common Value.

TABLE 5. Y Value

0	0.111111	0.444444	0.222222	0.222222
0.333333	0	0.222222	0.111111	0.111111
0.222222	0.111111	0	0.333333	0.222222
0.222222	0.333333	0.222222	0	0.222222
0.222222	0.111111	0.111111	0.222222	0

Table 5Shows the Y Value in Forensic Medicine And Toxicology in Forensic Medicine And Toxicology, Assessment of the victim , Medical and gynaecological history, Physical top-to-toe examination, Genito-anal examination is the Calculate the total relation matrix Value and Y Value is the same value.

TABLE 6.I-Y Value

1	-0.11111	-0.44444	-0.22222	-0.22222
-0.33333	1	-0.22222	-0.11111	-0.11111
-0.22222	-0.11111	1	-0.33333	-0.22222
-0.22222	-0.33333	-0.22222	1	-0.22222
-0.22222	-0.11111	-0.11111	-0.22222	1

Table 6Shows the I-Y Value Forensic Medicine And Toxicology in Forensic Medicine And Toxicology, Assessment of the victim, Medical and gynecological history, Physical top-to-toe examination, Genito-anal examination table 4 T= Y(I-Y)-1, I= Identity matrix and table 5 Y Value Subtraction Value.

TABLE 7.(I-Y)-1Value

2.564094701	1.238162	1.961298	1.699092	1.520792
1.550601079	1.924865	1.548393	1.341389	1.200626
1.610770363	1.153705	2.489573	1.627331	1.401006
1.734973013	1.378373	1.790174	2.465285	1.48436
1.306611874	0.923516	1.282323	1.255275	1.956882

Table 7 Shows the (I-Y)-1Value Forensic Medicine And Toxicology in Forensic Medicine And Toxicology Assessment of the victim , Medical and gynaecological history, Physical top-to-toe examination, Genito-anal examination Table 6 shown the Minverse Value.

TABLE 8. Total Relation matrix (T)

	Total Relation matrix (T)				
Forensic Medicine And Toxicology	1.564094701	1.238162	1.961298	1.699092	1.520792
Assessment of the victim	1.550601079	0.924865	1.548393	1.341389	1.200626
Medical and gynaecological history	1.610770363	1.153705	1.489573	1.627331	1.401006
Physical top-to-toe examination	1.734973013	1.378373	1.790174	1.465285	1.48436

Genito-anal examination	1.306611874	0.923516	1.282323	1.255275	0.956882
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Table 8 shows the Total Relation Matrix the direct relation matrix is multiplied with the inverse of the value that the direct relation matrix is subtracted from the identity matrix.

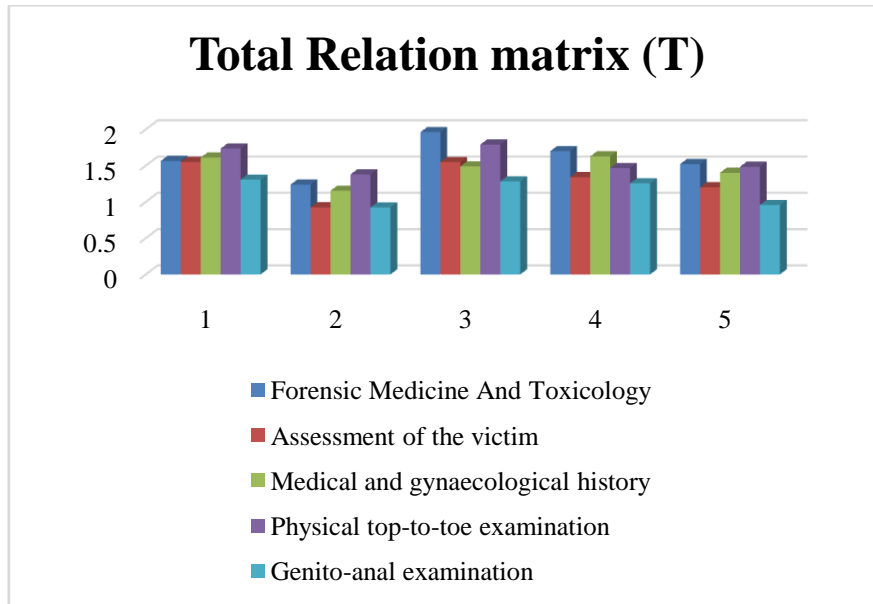


FIGURE 4. Total Relation Matrix (T)

Figure 4 shows The Total Relation Matrix the direct relation matrix is multiplied with the inverse of the value that the direct relation matrix is subtracted from the identity matrix.

TABLE 9. Forensic Medicine and Toxicology Ri, Ci Value

	Ri	Ci
Forensic Medicine And Toxicology	7.98344	7.767051
Assessment of the victim	6.565873	5.618621
Medical and gynaecological history	7.282385	8.071762
Physical top-to-toe examination	7.853165	7.388371
Genito-anal examination	5.724607	6.563665

Table 9 shows the Forensic Medicine and Toxicology Ri, Ci Value Forensic Medicine and Toxicology is showing the Highest Value for Ri and Genito-anal examination is showing the lowest value. Medical and gynecological history showing the Highest Value for Ci and Assessment of the victim is showing the lowest value.

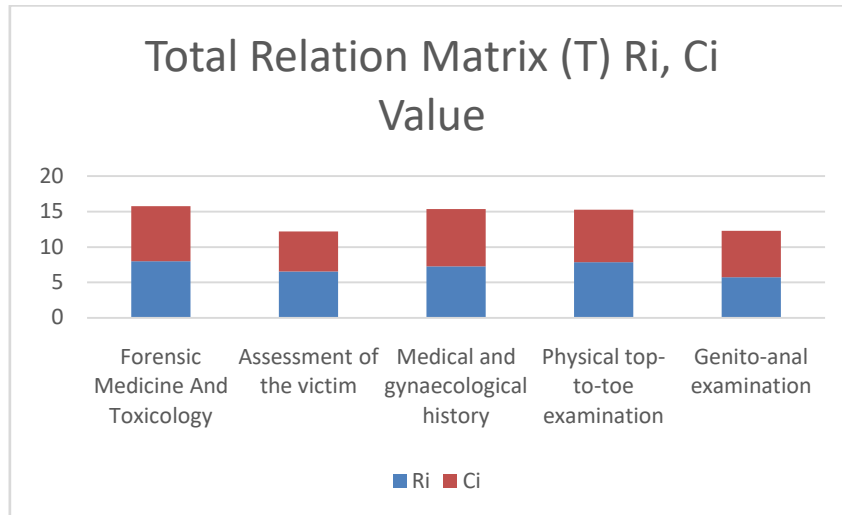


FIGURE 5. Total Relation Matrix (T) Ri, Ci Value

Figure 5 shows the Total Relation Matrix (T) Ri, Ci Value. Forensic Medicine And Toxicology is showing the Highest Value for Ri and Genito-anal examination is showing the lowest value. Medical and gynaeological history is showing the Highest Value for Ci and Assessment of the victim is showing the lowest value.

TABLE 10. Calculation of Ri+Ci and Ri-Ci To Get The Cause And Effect

	Ri+Ci	Ri-Ci	Rank	Identity
Forensic Medicine And Toxicology	15.75049	0.216389	1	cause
Assessment of the victim	12.18449	0.947252	5	cause
Medical and gynaeological history	15.35415	-0.78938	2	effect
Physical top-to-toe examination	15.24154	0.464794	3	cause
Genito-anal examination	12.28827	-0.83906	4	effect

Table 10 shows the Calculation of Ri+Ci and Ri-Ci to Get the Cause and Effect. Forensic Medicine And Toxicology, Assessment of the victim, Medical and gynaeological history, Physical top-to-toe examination of Forensic Medicine And Toxicology, Assessment of the victim, Physical top-to-toe examination is Showing the highest Value of cause. Medical and gynaeological history, Genito-anal examinations showing the lowest Value of effect.

TABLE 11. T Matrix Value

1.564095	1.238162	1.961298	1.699092	1.520792
1.550601	0.924865	1.548393	1.341389	1.200626
1.61077	1.153705	1.489573	1.627331	1.401006
1.734973	1.378373	1.790174	1.465285	1.48436
1.306612	0.923516	1.282323	1.255275	0.956882

Table 11 shows the T Matrix Value Calculate the Average of the Matrix and Its Threshold Value (Alpha) **Alpha 1.416378803** if the T matrix value is greater than threshold value then bolds it.

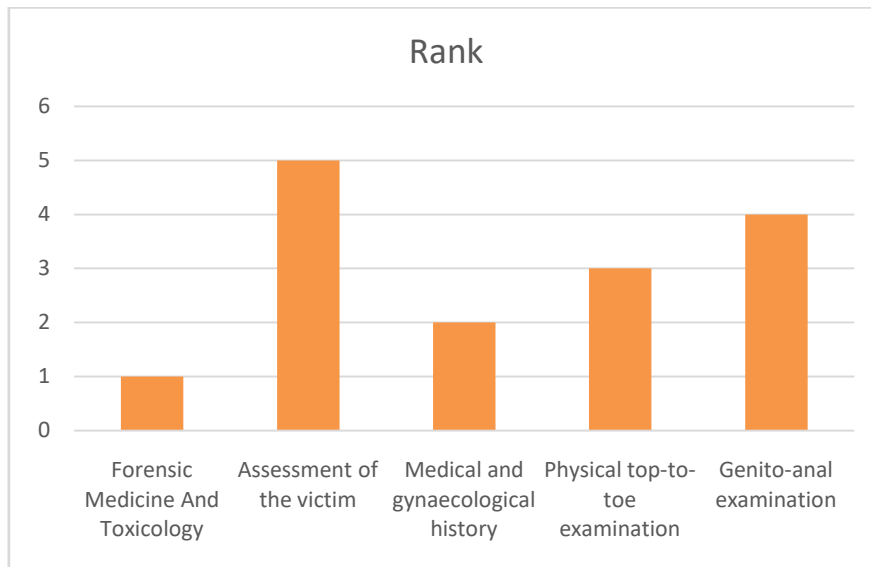


FIGURE 6. Shown the Rank

Figure 6 shows the Rank using the DEMATEL for Forensic Medicine and Toxicology in Forensic Medicine and Toxicology is got the first rank whereas is the Assessment of the victim is having the lowest rank.

5. Conclusion

Forensic toxicology is a multidisciplinary field that involves the detection and interpretation of the presence of drugs and different probably poisonous compounds in frame tissues and fluids. From: Information Resources in Toxicology (Fifth Edition), 2020. A number one survey, or preliminary evaluation, is designed to help an emergency responder identify instantaneous threats to existence. Immediate existence threats normally contain the patient's ABCs, and each of them is accurate. Life-threatening troubles have to be identified first. An obstetric record involves asking the affected person questions related to her current and previous pregnancies. Some questions are very non-public, so true communiqué abilities and a respectful way is clearly important The DEMATEL method can Specific problem, pinup Bound problems, and structural modeling techniques that can contribute to identifying solutions that can work through a hierarchical structure, identifying the interdependence between the components of an organization for a reason, and influencing the fundamental Concept of situational relations and Due to the influence of the elements The chart uses a lot the directional graphs Built on the basic principle of DEMATEL, it executes Issues by visualization method Analyses and solves. DEMATEL (Decision Making Trial and Evaluation Laboratory) they are divided into analysis using the Digital Whiteboard Foster Student Engagement in Social Engagement, Intellectual Engagement, Emotional Engagement, Physical Engagement, and Behavioral Engagement is Evaluation Parameters Digital Whiteboard Foster Student Engagement in the value. Digital Whiteboard Foster Student Engagement in Social Engagement is got the first rank whereas is the Intellectual Engagement number is having the lowest rank.

References

1. Michalodimitrakis, M. "The practice of forensic medicine in Greece and its problems." *Medicine, Science and the Law* 24, no. 2 (1984): 119-122.
2. Tonini, Stefano, Andrea Lanfranco, Antonio Dellabianca, Diego Lumelli, Ines Giorgi, FulvioMazzacane, Camilla Fusi, Fabrizio Scafa, and Stefano M. Candura. "Work-related stress and bullying: gender differences and forensic medicine issues in the diagnostic procedure." *Journal of Occupational Medicine and Toxicology* 6, no. 1 (2011): 1-6.
3. Gordon, Isidor, and Hillel Abbe Shapiro. *Extracts from forensic medicine: a guide to principles*. 1975.
4. Cooper, John E., and Margaret E. Cooper. *Introduction to veterinary and comparative forensic medicine*. John Wiley & Sons, 2008.
5. Erzinclioğlu, Y. Z. "The application of entomology to forensic medicine." *Medicine, Science and the Law* 23, no. 1 (1983): 57-63.
6. Cattaneo, Cristina. "Forensic medicine in the time of COVID 19: An Editorial from Milano, Italy." *Forensic Science International* 312 (2020): 110308.
7. Ingemann-Hansen, Ole, and Annie Vesterby Charles. "Forensic medical examination of adolescent and adult victims of sexual violence." *Best practice & research Clinical obstetrics & gynaecology* 27, no. 1 (2013): 91-102.

8. Pollak, Stefan. "Clinical forensic medicine and its main fields of activity from the foundation of the German Society of Legal Medicine until today." *Forensic science international* 144, no. 2-3 (2004): 269-283.
9. Szyf, Moshe. "The dynamic epigenome and its implications in toxicology." *Toxicological Sciences* 100, no. 1 (2007): 7-23.
10. Jennings, Wesley G., George E. Higgins, Richard Tewksbury, Angela R. Gover, and Alex R. Piquero. "A longitudinal assessment of the victim-offender overlaps." *Journal of Interpersonal Violence* 25, no. 12 (2010): 2147-2174.
11. Bradshaw, W., and Mark Umbreit. "Assessing satisfaction with victim services: The development and use of the victim satisfaction with offender dialogue scale (VSODS)." *International Review of Victimology* 10, no. 1 (2003): 71-83.
12. Storey, Jennifer E., and Stephen D. Hart. "An examination of the Danger Assessment as a victim-based risk assessment instrument for lethal intimate partner violence." *Journal of Threat Assessment and Management* 1, no. 1 (2014): 56.
13. Sher, K. S., and J. F. Mayberry. "Female fertility, obstetric and gynaecological history in coeliac disease: a case control study." *Acta Paediatrica* 85 (1996): 76-77.
14. Navarro, Manuel Carmen, Manuel Sosa, Pedro Saavedra, Santiago Palacios Gil-Antullano, Rosa Castro, Mario Bonet, Isabel Travesí, and Emilio De Miguel. "Anthropometric and gynaecological history according to the socioeconomic status of postmenopausal women: poverty and the menopause." *Menopause international* 16, no. 1 (2010): 12-17.
15. Teeuw, Arianne H., Rik BJ Kraan, Rick R. van Rijn, Patrick MM Bossuyt, and Hugo SA Heymans. "Screening for child abuse using a checklist and physical examinations in the emergency department led to the detection of more cases." *Acta paediatrica* 108, no. 2 (2019): 300-313.
16. Aldridge-Bent, Sharon. "Advanced physical assessment skills: implementation of a module." *British Journal of Community Nursing* 16, no. 2 (2011): 84-88.
17. Lincoln, Catherine Ann. "Sexual assault: forensic examination in the living and deceased." *Academic forensic pathology* 8, no. 4 (2018): 912-923.
18. Shieh, Jiunn-I., Hsin-Hung Wu, and Kuan-Kai Huang. "A DEMATEL method in identifying key success factors of hospital service quality." *Knowledge-Based Systems* 23, no. 3 (2010): 277-282.
19. Lin, Ru-Jen. "Using fuzzy DEMATEL to evaluate the green supply chain management practices." *Journal of cleaner production* 40 (2013): 32-39.
20. Li, Ya, Yong Hu, Xiaoge Zhang, Yong Deng, and SankaranMahadevan. "An evidential DEMATEL method to identify critical success factors in emergency management." *Applied Soft Computing* 22 (2014): 504-510.
21. Wu, Wei-Wen, and Yu-Ting Lee. "Developing global managers' competencies using the fuzzy DEMATEL method." *Expert systems with applications* 32, no. 2 (2007): 499-507.
22. Lee, Wen-Shiung, Alex YiHou Huang, Yong-Yang Chang, and Chiao-Ming Cheng. "Analysis of decision making factors for equity investment by DEMATEL and Analytic Network Process." *Expert Systems with Applications* 38, no. 7 (2011): 8375-8383.
23. Tsai, Wen-Hsien, and Wen-Chin Chou. "Selecting management systems for sustainable development in SMEs: A novel hybrid model based on DEMATEL, ANP, and ZOGP." *Expert systems with applications* 36, no. 2 (2009): 1444-1458.
24. Kumar, Ashwani, and Gaurav Dixit. "An analysis of barriers affecting the implementation of e-waste management practices in India: A novel ISM-DEMATEL approach." *Sustainable Production and Consumption* 14 (2018): 36-52.
25. Si, Sheng-Li, Xiao-Yue You, Hu-Chen Liu, and Ping Zhang. "DEMATEL technique: A systematic review of the state-of-the-art literature on methodologies and applications." *Mathematical Problems in Engineering* 2018 (2018).
26. Yazdi, Mohammad, Faisal Khan, RouzbehAbbassi, and RiszaRusli. "Improved DEMATEL methodology for effective safety management decision-making." *Safety science* 127 (2020): 104705.
27. Zhang, Wei-quan, and Yong Deng. "Combining conflicting evidence using the DEMATEL method." *Soft computing* 23, no. 17 (2019): 8207-8216.
28. Lee, Hsuan-Shih, Gwo-HshiungTzeng, WeichungYeih, Yu-Jie Wang, and Shing-Chih Yang. "Revised DEMATEL: resolving the infeasibility of DEMATEL." *Applied Mathematical Modelling* 37, no. 10-11 (2013): 6746-6757.