

## Medico-legal problems in obstetrics

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Soil can provide important information to criminal investigations as transfer evidence because many criminal cases take place under circumstances such that soil transfers to a criminal or victim. The variation in soils from place to place makes soil valuable evidence to prove linkage between a suspect and a crime scene. Blood was sprayed onto the soil in natural environmental conditions. Weather directly affects yield and recovery of biological material. Once the soil has been collected, DNA extraction can be brought out from the samples removing the amounts of humic acid which is an inhibitor of PCR. A new method was employed for the extraction of DNA from these soils, Quantity estimation was carried out using ABI Quantifiler kit in Real Time PCR from each soil. It can be clearly seen that there was a tremendous effect of time period and environment on the samples collected from different locations. The humus, salt concentration, water and heat have remarkable effect on DNA. Promega kit was used to amplify DNA from the targeted regions. Results were analyzed using ABI genetic analyzer. The issues of contamination, allele/locus dropout, stutter and no amplifications were addressed. Further the Inorganic composition of soil and the effect of blood were checked using Inductive Coupled Plasma Mass Spectrometry (ICP-MS) using soil standard. The soils samples were prepared using nitric acid extraction procedure and were introduced to ICP-MS for differential analysis. The results of ICP-MS clearly indicate the change in elemental composition of soil. Statistical analysis was done to confirm results using SPSS.

### Biography

El Akri Abdelhafid has completed his Ph.D. at the age of 25 years from HASSAN II University and postdoctoral studies from CHU IBN ROCH University School of Medicine Morocco. He is preparing now a Master in Medico legal evaluation from Montreal University Canada after getting a DESS in medico legal evaluation from Montreal University. He has published more than 12 research papers in reputed journal.

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