INTRODUCTION OF NEWLY DEVELOPED SOFTWARE FOR IDENTIFICATION NAMED “MASS ID MANAGER(MIM)”: FOCUSED ON ITS DENTAL MODULE

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When forensic professionals are dealing with mass disaster victims, the volume of postmortem and antemortem data is sometimes too large to collect and compare. In that case, performing identification with computer software makes the process much faster and more efficient. There are many systems used recently, for example, DAVID, WinID3 and DVI System InternationalR. Among them, DVI System InternationalR is widely used in many countries and even hired official system in Interpol. However, the price of DVI system internationalR is too expensive (over than 100,000 euro, excluding maintenance fee) and most developing countries cannot use this system. Even in case of Korea, purchasing the system was approved by the government not until 2012.

Therefore, the Korea DVI had a decision to develop a new software named “Mass ID Manager(MIM)” especially focused on small to medium sized disaster and have a plan to distribute to member countries of APMLA(Asia-Pacific Medico-Legal Association).

In developing the system, we consider the possibility of compatibility with DVI System InternationalR and develop many new modules like fingerprint, anthropology and familial assistance modules. For dental module, the matching algorithm is based on the number of matching points. The matching point is divided into two categories, complete and partial matching point that should be appeared discriminately in comparison process. The coding system of dental characteristics is newly designed for this system. For enhancing the intuitive nature of codes, we abandon 3-digit codes which are used in DVI System InternationalR. The user interface is designed to enhance convenience in identification process.
The purpose of this presentation is to introduce Mass ID manager system especially of its dental module. The result of simulation of identification will be presented with the real ID case which was already presented in former 2010 IOFOS meeting.

Since, MIM is still undergoing construction, the idea of improvement and modification from the member of IOFOS is urgently needed for making better software for identification.

**KEYWORDS:** Forensic Odontology, Mass disasters, Software, Dental Module.