

Odonto-Maxillo-Cranial identifications and wanted/missing persons: International police horizons

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ABSTRACT

Facial and skull identifications can have many forms. If some of the procedures are quite a lot different between a unit forensic work and a terrorist crime scene like Bataclan, Bombay or Brussels, the ways used by forensic teams cannot be ignored ; radiological imaging is a full part of that.

Interpol *notices* are born from a police ideology : helping all the polices supported by Interpol.

The exposition is focusing towards International Criminal Police Organization (I.C.P.O.) *notices*.

Eight *notices* are currently used ; each one has a particular allocation and it's exclusive color.

Some of the notices are directly connected with the idea of identification : red, yellow, black, orange, and UN/Interpol too.

-Red *Notice*. : wanted persons (to extradition or similar lawful action)

-Yellow *Notice*. : missing persons (minors, persons unable to identify themselves)

-Black *Notice*. : unidentified bodies

-Orange *Notice*. : imminent threat against public security (person, process, object, event)

-Security council U.N./Interpol *Notice*. : war criminals

There are currently four identification ways used in Interpol notices :

-physical description,

-finger prints,

-photographs,

-DNA.

Each procedure has it's plus and minus ; from time to time a notice has problems with a strange description, fingerprints are incomplete, photographs are unexploitable and DNA damaged. With charred persons, difficulties are increasing and none of the four criteria is the good one.

DVI experience indicates that getting *ante mortem* X-rays is a good deal for identifying bodies.

So we need an additional solution which must be :

-really usable in the 190 countries connected to Interpol

-useful

-repeatable

-very hard to falsify

-small price (no more than DNA)

A *radiographic file* made of three standard X-rays can meet these requirements in every field.

In case of deep facial orthognatic surgery as we can find now

with mafiosi or terrorists, special cephalometric lines and particular superimpositions will help to identify these persons.

The complete file is composed of :

- a lateral long range full skull X-ray
- a frontal long range full skull X-ray
- an orthopantomogram

We do have now a radiological anthropometric criterion, the *fifth criterion*.