

# Classification and Treatment Technologies of Hospital Wastes

EDESSA was retained by Averda, Lebanon to establish an environmental code for the classification and treatment of wastes generated at various health facilities, with a dominant focus on high volume generators such as hospitals. This was accomplished by hazardous/non hazardous classification of the wastes in terms of their origin and proposing suitable treatment technologies for the minimization of impacts on public health.

The waste stream from its generation to its final disposal was assessed in order to arrive at proper management decisions.

The following elements were analyzed:

- Waste minimization
- Segregation
- Codification
- Handling
- Transportation
- Treatment
- Disposal

Several treatment options that best suite local conditions were suggested to reduce medical waste handling and associated health hazards.

Treatment options included:

- Shredding
- Disinfection
- Steam/thermal
- Microwave
- Chemical
- Autoclave
- Incineration

