

TABLE I**Sample classification**

A –mono or bilateral amputations by weapon of lower limbs throughout the bone, showing sharp rescession or with shredded flesh. Often presenting also punctuated round holes in the pubis. No metal fragments detectable by X rays or by surgical inspection. Biopsies taken from the rim of the amputated limb, inclusive of skin to muscle, and sometimes bone fragments. *Fig 1A, B, and C **

B – burn injuries, of different extend and depth. Biopsy were from the burnt skin. *Fig 1D*

C –deeply burned bodies, charred to the bone. Biopsies from the muscle underneath the burn and from the exposed burnt lamellar bone. *Fig 1 E and F**

M–multiple and diffuse burn injuries with roundish shape and devoid of snarpel at inspection. Self igniting clumps, of White phosphorus, were extracted from the place of the wounds. Biopsies included the rim of different wounds . *Fig1 G and H*

B/T – suspected injury by pressure wave; patient with diffuse burns and overlay of grayish material, with internal edemas. Biopsy was from the burnt skin.

B/C – severely and diffusely burn injuries, charred sections of the body. Biopsy was from the muscle underneath the burn. *Fig 1 I**

Sample Number - Class of injury - Description

1-B- Explosive injury on 5/1/2009 with deep burns & necrosis of chest wall skin, muscle and bone of sternum. Biopsy on 14/1/2009.

2-B- Explosive injury on 12/1/2009 with burning of face, chest wall and limbs. Biopsy on 15/1/2009. *Fig.1D*

3-B/T Explosive injury on 12/1/2009 with second and third degree burns both hands with a layer of gray material on top of burn. Biopsy on 14/1/2009.

4-A Explosive injury on 14/1/2009 with crushed and nearly amputated both lower limbs. Biopsy from skin and muscle of Rt lower limb. Biopsy at surgery. *Fig.1A*

5-A- Explosive injury on 15/1/2009 with crushed lower limbs. Biopsy on 15/1/2009. *Fig.1B*

6-A- Explosive injury on 14/1/2009 with crushed Rt arm. Biopsy on 14/1/2009.

7-A- Explosive injury on 15/1/2009 with crushed lower limb. Biopsy on 15/1/2009

8-A- Explosive injury on 16/1/2009 with both lower limbs crushed. Biopsy on 16/1/2009.

9*-C- Explosive injury on 15/1/2009. Completely burned body. Biopsy on 15/1/2009. burned derma. *Fig.1 E*

10*-C- Same victim as in 9. Soft tissue.

11 *-C- Same victim as in 9. Carbonized bone marrow.

12-M-** Injury by self igniting material on 11/1/2009, with multiple areas of deep burn and necrosis of skin, subcutaneous tissue and muscle. Biopsy on 14/1/2009. *Fig.1 G and H*

13-M-** Same victim as in 12. Subcutaneous tissue and muscle. Biopsy on 14/1/2009 from muscle.

15-B- Explosive injury on 11/1/2009 with areas of deep burn on Rt thigh. Biopsy at recovery from necrotic skin of right thigh.

G1-B/C- July 2006. Severe burns covering the whole body . Biopsy at the recovery. *Fig 1 I**

G2-A- July 2006. Amputation of lower limb. Biopsy at the recovery.

R1-A- July 2006. Amputation of lower limb. Biopsy at the recovery. *Fig 1C**

R2-C- July 2006. Completely charred body, charred cranial bones. Biopsy at the recovery. *Fig 1F**