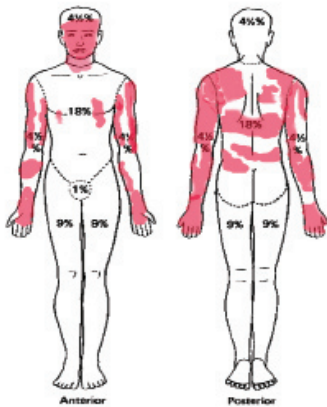


Second degree burns treated with Hydrogel, Activon Tube[®], Actilite[®] and Eclipse[®] dressings

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Background

The patient is female and 35 years old. She suffered burns when trying to rescue her family from her house when a gas heater exploded inside. The incident happened on December 21st 2009 and she came to hospital no later than one hour after.



She has second degree burns to her face, anterior neck and covering both hands. She has both second and third degree burns on the posterior side of both arms and forearms. Also some burns to the anterior side of her arms and forearms, a small part on her right breast and a smaller part on her left breast.

There are second degree burns on her posterior right shoulder and all over her back with some small islands of unburned skin.

Her respiratory system was clean and no abnormality found. Her burns were around 36% TBSA.

When the patient was brought to hospital due to edema escharotomy were done in dorsal side for her hands.

Initial presentation



Blood exam result on admission

WBC: 9200 ul

Hg: 12.8 g/Dl

Plt: 184000 ul

BS: 121.2 mg/Dl

Ur: 38 mg/Dl

Cr: 0.60 mg/Dl

Alb: 3.2 g/dl

Na: 125.7 mmol/L

K: 4.36 mmol/L

Cl: 105.2 mmol/L

Blood group: +A

First dressing

The wound was washed with normal saline solution, Activon Tube[®] and Actilite[®] were applied with Eclipse[®] as the secondary dressing.



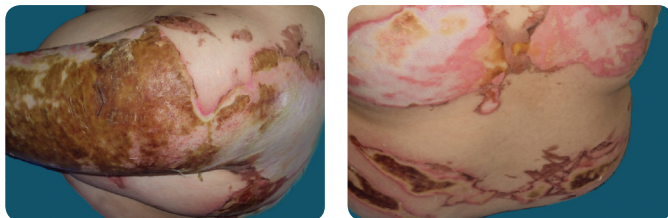
Removed initial dressing after 5 days



Blood exam result on admission

WBC: 6120 ul	Cr: 0.48 mg/Dl
Hg: 8.8 g/Dl	Alb: 3.0 g/dl
Plt: 190000 ul	Na: 132.6 mmol/L
BS: 136 mg/Dl	K: 3.71 mmol/L
Ur: 10 mg/Dl	Cl: 95.4 mmol/L

Removal of second dressing



Fourth dressing - one week later

The wound was washed with normal saline fluid. Any dead tissue was removed. Activon Tube® and Actilite® were applied with Eclipse® as the secondary dressing.



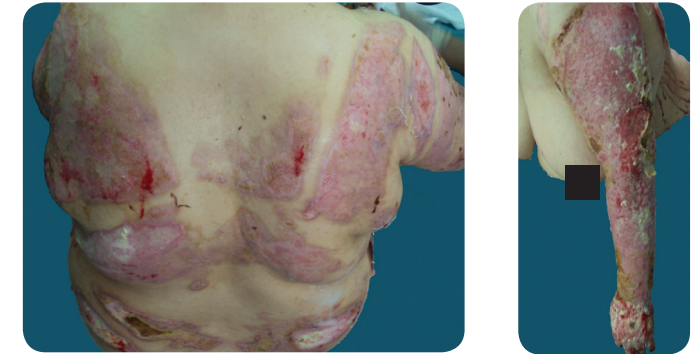
After 10 days



Blood exam result after 10 days

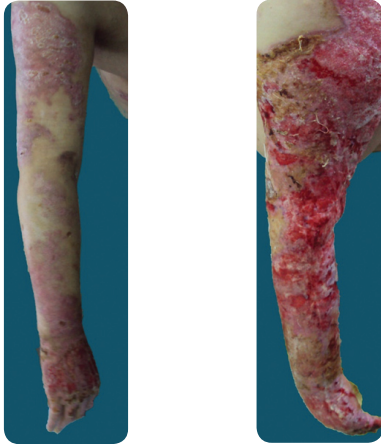
WBC: 5960 ul	Cr: 0.52 mg/Dl
Hg: 9.4 g/Dl	Alb: 3.1 g/dl
Plt: 262000 ul	Na: 135.7 mmol/L
BS: 113 mg/Dl	K: 4.12 mmol/L
Ur: 27 mg/Dl	Cl: 98.4 mmol/L

After 14 days



Seventh dressing change - 18 days after

The wound was washed with normal saline fluid. Any more dead skin from left hand, arm and shoulder were removed. Activon Tube® and Actilite® were applied with Eclipse® as the secondary dressing. Algivon® was applied to her back and right hand with Eclipse® to cover.



Blood exam result after 18 days

WBC: 4240 ul	Cr: 0.5 mg/Dl
Hg: 8.7 g/Dl	Alb: 3.1 g/dl
Plt: 279000 ul	Na: 137.1 mmol/L
BS: 134 mg/Dl	K: 3.72 mmol/L
Ur: 16 mg/Dl	Cl: 99.6 mmol/L

After 21 days



Ninth dressing change

After repeating this dressing treatment eight times, her back and most of her right hand treated had no further need for dressing.

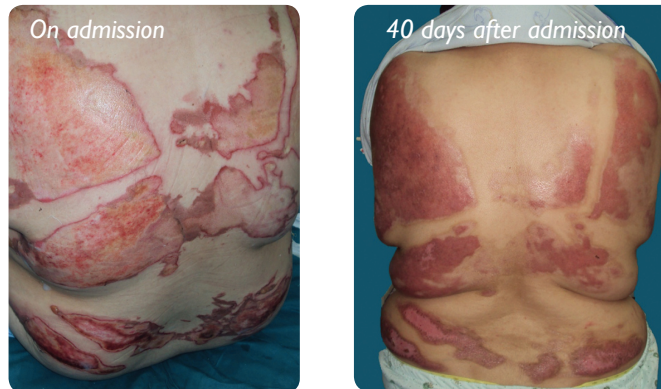
The patient was discharged and came for a dressing change to be ready for skin graft.

Her left hand was washed by saline fluid, Activon Tube® and Actilite® were applied and covered with Eclipse®.

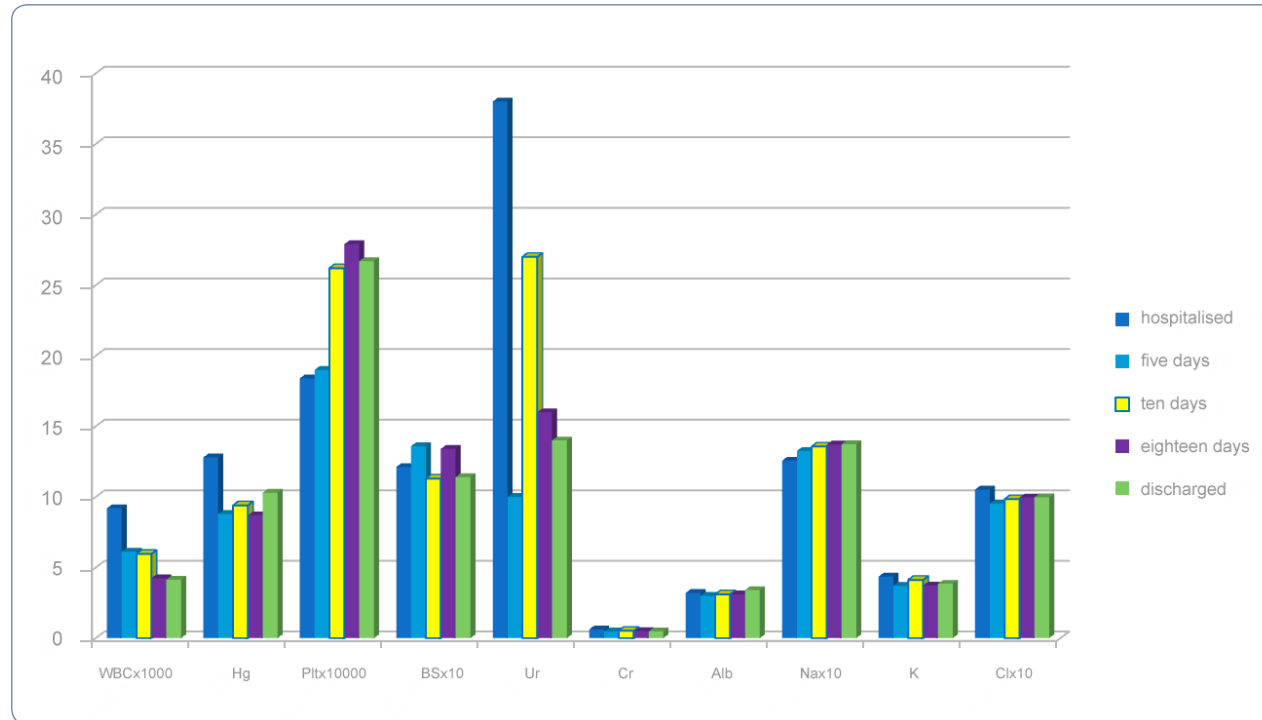
After 25 days



Progress of treatment



Blood sample analysis



Results

From treating the affected area the majority of her burns were healing well in less than 20 days without the need for skin grafting. Only a small amount of skin grafting will be required at the third degree burn area that will need more attention. The patient was compliant with the treatment provided and found the dressings of a very acceptable pain level.

As blood analysis showed during the treatment her WBC decries and her Albumin rise to normal without need any Albumin injection. Haemoglobin is stable and came to normal.