

(b)

Figure 3: (a) Wound Image (b) Image segmentation By image class correlation



(c)



(d)

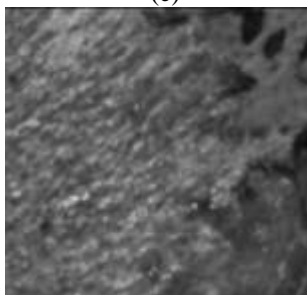
Figure 4: (c) Wound Image (d) Image segmentation By image class correlation



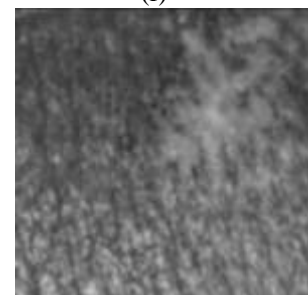
(e)



(f)



(g)

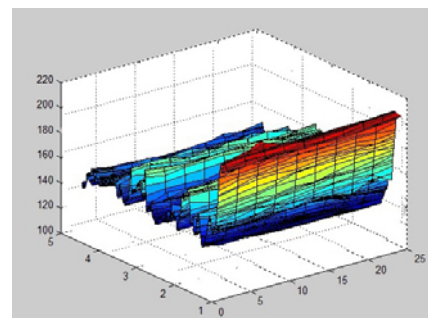


(h)

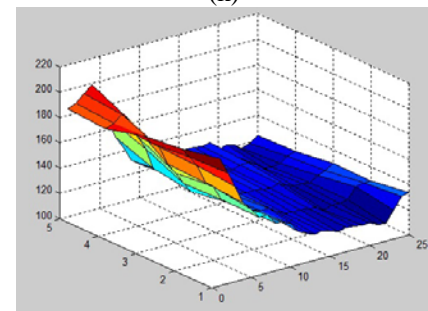


(i) (j)

Figure 5: (e) Wound surface before treatment (f) Same surface after treatment 3 weeks later (g) Fuzzified image of wound image before treatment (h) Fuzzified image of wound after treatment. (i) Contour wise segmentation of indexed image of (e) & (f)



(k)



(L)

Figure 6: (k) Surface Graph of before treatment wound image and (L) after treatment wound on same pixel domain

Table 2: Wound image assessment on pixel wise distance measurement for five adjacent pixels

Image Name	[Mi x Ni] Pixel wise mean difference for adjacent pixels, n=5	x Mean value
a	2524133	1262067
c	3601461	1800731
e	2131361	1065681

## 6. Discussion

This proposed work is based on a new technique which reduces the noise. It gives a technique which smoothen the epidermal layer wound picture. This fuzzy logic is a new area of research which gives clarity of an image. Morphological analysis is based on set theory. This analysis produces a spatial matrix of selected pixel value. From that matrix the fuzzy modifier function is generated which produces an image clarity to study and assess the wound condition.

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