

# EVALUATION OF MAST CELLS EXPRESSION IN THE SKIN OF PEMPHIGUS VULGARIS AND BULLOUS PEMPHIGOID PATIENTS

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## Introduction

Pemphigus vulgaris (PV) and Bullous pemphigoid (BP) are well-known chronic autoimmune bullous dermatoses in which antibodies are directed against basement membrane zone. Mast cells contribution in inflammatory and autoimmune diseases is recently suggested.

## Aim of the work

The aim of this study was to detect mast cells expression in pemphigus vulgaris and Bullous pemphigoid skin lesions.

## Patients

**The work protocol was as follow:**

Patients were recruited from the Dermatology Outpatient Clinic of the Alexandria Main University Hospital.

**This study was conducted on:**

20 pemphigus vulgaris patients (Group I).

20 Bullous pemphigoid patients (Group II).

10 persons as control (safety margin of basal cell carcinoma and squamous cell carcinoma patients).

## Methods

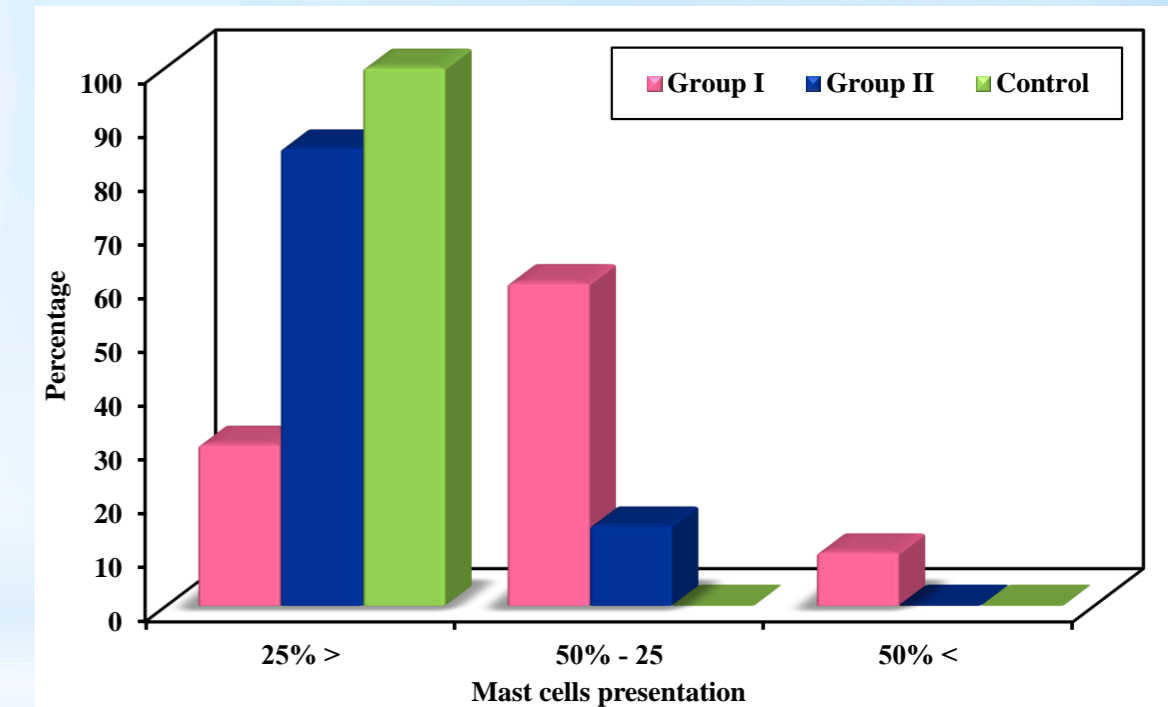
Mast cells detection in skin biopsies from all participants were done by using immunohistochemical staining for CD117.

## Results

mast cells showed significant higher presentation of (25-50% involvement) in group I than in group II (60% VS 15% of patients respectively).

**Table 1 :Distribution of the studied cases according to diagnosis (n = 40)**

Diagnosis	No.	%
Pemphigus vulgaris (PV) (Group I)	20	50.0
Bullous pemphigoid (BP) (Group II)	20	50.0



**Fig 1 : Comparison between the groups according to mast cell presentation**

## Conclusion

Mast cells might have an important role in the pathogenesis of autoimmune bullous diseases.