

# A retrospective study on diagnostics and treatment outcomes of Primary cutaneous B-cell lymphoma

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Primary cutaneous B-cell lymphomas (PCBCLs) are a group of commonly indolent diseases that comprises primary cutaneous follicle center lymphoma (PCFCL), primary cutaneous marginal zone lymphoma (PCMZL) and primary cutaneous diffuse large B-cell lymphoma, leg type (PCDLBCL, LT). Treatment is watchful waiting, excision, radiotherapy, rituximab, and systemic chemotherapy in case of extracutaneous spread disease.

## Aim

The aim of the study was to present demographics, clinical features and treatment outcomes of patients with PCBCLs in West Sweden.

## Methods

This is a descriptive, register-based, single center retrospective study of patients diagnosed with PCBCLs at Department of Dermatology and Venerology at Sahlgrenska University Hospital between 2002-2021. Data regarding demographics, clinical characteristics, pathological- and medical examination findings, comorbidities, staging according to TNM-system and treatment response were collected.

## Results

Characteristics	PCFCL	PCMZL
Population, n	5	4
Sex, n (%)		
Male	3 (60)	2 (50)
Female	2 (40)	2 (50)
Age at symptoms, years, mean $\pm$ SD	52.4 $\pm$ 15.1	47.8 $\pm$ 28.7
Age at diagnosis, years, mean $\pm$ SD	53.8 $\pm$ 14	49.2 $\pm$ 28.1
Skin type, Fitzpatrick scale, n		
II		3 (75)
III	4 (80)	1 (25)
IV	1 (20)	
No data		
BMI, mean SD	33.5 $\pm$ 3.3	23.3 $\pm$ 3.5



**Figure A.** Primary cutaneous follicle center lymphoma appearing as a tumor on the patient's forehead.



**Figure B.** Primary cutaneous marginal zone lymphoma showing as a nodule on the patient's upper extremity.

Characteristics n (%)	PCFCL	PCMZL
Head	3 (60)	1 (25)
Trunk	2 (40)	1 (25)
Upper extremity		2 (50)
Lower extremity		1 (25)
Papule	2 (40)	3 (75)
Macula	1 (20)	1 (25)
Patch		
Plaque	2 (40)	1 (25)
Noduli	1 (20)	
Tumor	2 (40)	1 (25)

## Treatments

Radiotherapy, excision, topical/intralesional corticosteroids, chemotherapy and rituximab were used to treat PCBCLs. PCMZL had complete remission when treated with chemotherapy, radiotherapy and with excision. The treatments were commonly used as monotherapy or in a combination over time.

## Comorbidities

The study population had a wide range of different comorbidities including cardiovascular diseases, hypothyroidism, rheumatic arthritis and dermatological diseases including malignant melanoma, basal cell carcinoma and herpes zoster.

## Conclusion

Nine patients with PCBCLs were identified and included in the study. The majority of patients had indolent disease and responded well to the targeted therapies. This study contributes to increased knowledge on demographics, clinical features, diagnostics, and treatment response of PCBCLs.

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