

Steven Johnson Syndrome Induced by Pembrolizumab and Capecitabine: A Case of a 71-Year-Old Woman with Esophageal Metastatic Squamous Carcinoma Treated with Double Oral Chemotherapy

Iovino Miriam Dafne^{1*}, Rufolo Paola¹, Iovino Giovanni Mattia², Cavallaro Giulia², Giaccoli Marco³, Liccardi Filomena⁴, Ronga Ilaria⁵ and Bova Maria⁵

¹Department of Clinical Medicine and Surgery, University of Naples, "Federico II", Italy

²Faculty of Medicine, University of Naples, "L. Vanvitelli", Italy

³Faculty of Medicine, University of Salerno

⁴Department of Emergency and Critic Area, A.O.R.N. "A. Cardarelli", Naples, Italy

⁵Department of Medicine and Medical Specialties, A.O.R.N. "A. Cardarelli", Naples, Italy

*Corresponding author

Iovino Miriam Dafne, Department of Clinical Medicine and Surgery, University of Naples, "Federico II", Naples, Italy.

Received: November 02, 2025; **Accepted:** November 10, 2025; **Published:** November 20, 2025

Background

Steven-Johnson syndrome (SJS) is a severe mucocutaneous reaction with devastating clinical course. Drug toxicity is one of its primary causes. Capecitabine, an oral analogue of fluoropyrimidine, is a chemotherapy agent that inhibits DNA synthesis and slows the growth of cancer tissues, while pembrolizumab is a monoclonal antibody that binds to the PD-1 protein of immune cells, blocking their interaction with the PD-L1 and PD-L2 ligand of cancer cells. They had many side effects and SJS is one of them.

Medical History

A 71-year-old patient came to the emergency room with a severe rash all over her body with bullae and erythematous lesions peri buccal and palatal, not responsive at home on cortisone and antihistamines. He reported starting the first cycle of capecitabine after treatment with pembrolizumab for metastatic esophageal squamous adenocarcinoma. Transferred to the dedicated medical department, she was treated with intravenous corticosteroid therapy and wash out drugs [1].

Table

	Blood test at access	Blood tests at transfer to ward
ALT	101 UI/L	59 UI/L
AST	30 UI/L	30 UI/L
albumine	4.0 g/dL	4.0 g/dL
GGT	114 UI/L	104 UI/L
Red Blood Cells	4.29 x103 UI/L	4.06 x103 UI/L

Hb	12.9 g/dl	12.4 g/dl
Platelets	213 x103 UI/L	225 x103 UI/L
White Blood Cells	12.58 x103 UI/L	10.17 x103 UI/L
Neutrophils	9.77 x103 UI/L	6.56 x103 UI/L
PCR	0.56 mg/L	1.9 mg/L
PCT	0.7 ng/ml	0.4 ng/ml
Creatinine	5.12 mg/dl	4.25 mg/dl
Urea	117 mg/dl	66 mg/dl
Sodium	141 mEq/L	143 mEq/L
Osmolarity	307 mOsm/L	315 mOsm/L
Potassium	5.5 mEq/L	4.6 mEq/L

Discussion

Although widely accepted for many cancers due to the improved safety and tolerability profile, capecitabine and especially pembrolizumab may cause particularly when combined adverse events very detrimental to patients' health, such as SJS. Monitoring the effects of these drugs from the first administration is important to manage them in time [2].

References

1. Benjamin Gallo Marin , Rocío Oliva , Benjamin Kahn , Theo Borgovan , Blake Elizabeth Brooks , et al. (2022) Pembrolizumab-induced Toxic Epidermal Necrolysis in a Patient with Metastatic Esophageal Adenocarcinoma. R I Med J 105: 34-36.

2. Kavya Karthikeyan, KV Sameera, Shintu Shaji, M Ann C Swetha, CS Madhu (2022) Capecitabine induced Steven-Johnson syndrome: A rare case report. *J Oncol Pharm Pract* 28: 250-254.

Copyright: ©2025 Iovino Miriam Dafne, et al. This an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.