

A rare but important side-effect of Cilostazol: A case-report

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Manuscript title:

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Short title:

Cilostazole, side-effect

Key clinical message

Cilostazol as one of the useful drugs in helping claudication in peripheral vascular diseases may have some complications such as palpation, headache, gastrointestinal symptoms and which is an infrequent complication of this drug.

Keywords: Cilostazol, drug side-effect, ischemic wounds, dose-dependent side-effect

Case report

A 72-year-old man with a history of first toe of his left foot amputation after a wound caused by Squamous Cell Carcinoma (SCC) was admitted to a doctor's office with an ischemic wound above the amputation site on July 2nd, 2023. He had no other comorbidities and he was not a smoker. We started Levofloxacin (500 mg, BD), and rifampin (300 mg, BD), and 8 days after taking these antibiotics we started Cilostazol (100 mg, Daily) for the patient. Three days after starting Cilostazol the patient came with edema, erythematous, tender, and warm skin lesions on his left elbow and 2nd metacarpus of the same hand and his nose bridge. (figure 1,2) So, we stopped Cilostazol but continued Antibiotics for the patient. Three days after stopping Cilostazol the skin lesions started getting better. At this time his creatinine was at 1 mg/dl.

One week after stopping Cilostazol we started it again at 50 mg and no side-effect was seen but according to what the patient said; He started getting Cilostazol 100mg a few days after using Cilostazol 50mg and again those side-effects were seen in the same areas as the last time. So again, we decreased the dosage to 50 mg, and no side-effect was seen again. (figure 3)





Figure1:The lesion Figure2: The lesion



Figure3: The lesion

Discussion

Cilostazol is a drug that is used for healing wounds. This drug increases microvascular circulation (1).

The level of Cilostazol will decrease when rifampin is used because of its effect on hepatic/intestinal enzyme CYP3A4 metabolism (2). Different dose of cilostazol was used along with the same dose of rifampin but the symptoms were not dependent to rifampin use.

There are different side effects of cilostazol such as headache, diarrhea, dizziness, pain, pharyngitis, tachycardia, and peripheral edema which is a rare one. This side effect was seen in 7.6% of those who got cilostazol 50mg and in 6.6% of those who got cilostazol 100mg (3). In this case, this rare side effect, edema was seen along with other symptoms such as erythematous, tender, and warm skin.

Conflict of interest

None.

Funding information

None.

Consent

Written informed consent was obtained from the patient to publish the current case report.

Data availability

The data that support the findings of this study are available on request from the corresponding author. The data is not publicly available due to privacy or ethical restrictions.

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