Pinpoint Raynaud of the Nipples

**Pulse Cyclophosphamide Beats Daily for Vasculitis**

![Image](Image 187x8 to 294x25)

She complained of episodes in which her nipples became cold, purple, or red, said Ms. Wiener, a certified lactation consultant. "This problem has been misdiagnosed as a lactation problem," she said. "I know this sounds horrible," but it's preferable to prescribing treatment without a firm diagnosis. The treatment of choice is the calcium channel blocker nifedipine, 5 mg b.i.d. for 2 weeks. "It's very quick acting," and a vasodilator, she said. "The handful that I have treated have responded very well and didn't need a repeat of the prescription. Why that is, I can't tell you."

Raynaud phenomenon of the nipples has been associated with factors that restrict the blood vessels, including rheumatologic diseases, carpal tunnel syndrome, autoimmune diseases, cigarettes, and caffeine.

Advise the patient to avoid exposure to cold, vasoconstricting medications, nicotine, and caffeine.

**Patients diagnosed with Raynaud phenomenon of the nipples should avoid exposure to cold, vasoconstricting drugs, nicotine, and caffeine.**

![Image](Image 451x8 to 595x26)

Birmingham, Birmingham (England). In unpublished data from the completed CYCLOPS (Daily Oral Versus Pulsed Cyclophosphamide for Renal Vasculitis) study, researchers compared remission rates at 3 months in 160 patients randomized to intermittent pulse therapy or daily oral therapy.

The rate of remission at 3 months was 70% in the pulse regimen group and 65% in the conventional daily oral regimen group. Among 160 patients randomized to intermittent pulse therapy or daily oral therapy, Carruthers said, however, methotrexate remission takes longer to achieve.

In addition, there was a 70% relapse rate at 1 year with methotrexate, compared with 45% with conventional oral cyclophosphamide, among 100 participants in the NORAM (Methotrexate Versus Cyclophosphamide for ‘Early Systemic’ Disease) study (Arthritis Rheum. 2005;52:2461-9).

"Most relapses occurred when patients were off all therapy, including steroids," Dr. Carruthers said.

"Mean time to relapse was 13.5 months in the NORAM study. Dr. Carruthers said, 'It does seem that prolonged therapy is necessary beyond 12 months.'"

In response to a question from an audience member on the use of azathioprine for induction of remission, Dr. Carruthers said, "Cyclophosphamide use in a targeted manner is more predictable than use of azathioprine for induction of remission."

Although Dr. Carruthers recommended cyclophosphamide as initial therapy, he said it might not be necessary for the maintenance phase. "It appears unnecessary to keep patients on cyclophosphamide once remission is achieved. They can be given azathioprine for up to 18 months," he said, "for example, findings from the CYCAZERAM (Cyclophosphamide Versus Azathioprine as Remission Maintenance Therapy for ANCA (antineutrophil cytoplasmic antibody)-associated Vasculitis) study demonstrated no increase in relapse when azathioprine was substituted for cyclophosphamide after remission was achieved (N. Engl. J. Med. 2003;349:36-44)."

Tapering the dose of oral steroids is probably needed for all, Dr. Carruthers said. "But it is not clear if steroid maintenance is needed after 18 months or not." A meeting attendee asked if any randomized, controlled trial compared prednisone and cyclophosphamide for remission induction. "No," Dr. Carruthers said, "Early studies were retrospective reviews. I don't think now we can ethically do studies where we put patients on steroids only versus cyclophosphamide."

The British Society for Rheumatology, in conjunction with the British Health Protection Agency, recommends a potential for higher long-term remission rates, compared with daily therapy, "but that remains to be seen," he said.

"This seems to indicate pulse is as effective," Dr. Carruthers explained. "There was no difference in patient survival either."

The researchers found a higher rate of infection—including severe and life-threatening leukopenia—with continuous oral therapy, compared with pulse cyclophosphamide, Dr. Carruthers said. Pulse therapy has a potential for higher long-term remission rates, compared with daily therapy, "but that remains to be seen," he said.

Cyclophosphamide therapy can be effective treatment in half of cases. The researchers found a higher rate of infection—including severe and life-threatening leukopenia—with continuous oral therapy, compared with pulse cyclophosphamide, Dr. Carruthers said. Pulse therapy has a potential for higher long-term remission rates, compared with daily therapy, "but that remains to be seen," he said.

The importance of humoral immunity in dermatomyositis was supported by the observation that perifascicular endothelial immunoglobulin and complement deposition are thought to result in the muscle inflammation (Arthritis Rheum. 2005;52:601-7).

Among seven patients who had either dermatomyositis, polymyositis, or antineutrophil cytoplasmic antibody, two infections at about 6 months. A recent report suggested that B cells play an important role in the pathogenesis of inflammatory myopathies, Dr. Blom noted. Another recent report suggested that a possible rationale for considering B-cell depletion as a therapeutic strategy in dermatomyositis was that treatment with rituximab had previously been shown to result in improvements in muscle strength in humans (N. Engl. J. Med. 2003;349:36-44).

Published studies included oral and intravenous prednisone, methotrexate, azathioprine, cyclophosphamide, interferon, etanercept, and intravenous immunoglobulin. A mean 13% improvement was reported in Health Assessment Questionnaire (HAQ) scores and improvements in muscle enzymes and symptoms. Furthermore, the observation that there are antibodies specific for myositis antigens also suggests that B-cell-mediated humoral abnormality in dermatomyositis (Medicine [Baltim. 1991;70:360-74].

**Thorough Patient History Can Pinpoint Raynaud of the Nipples**

**B-Cell Depleting Rituximab Shows Promise in Myopathies**

San Francisco — With only a handful of case reports in the medical literature, Raynaud phenomenon of the nipples isn’t often a physician’s first thought when a breastfeeding mother describes nipple pain. However, if there are no signs of infection and no cracks or fissures on the nipples, consider this rare cause of nipple pain, especially if the woman has a history of Raynaud syndrome, Sharon R. Wiener said at a meeting on antepartum and intrapartum management sponsored by the University of California, San Francisco.

The pain from this vasospasm of the nipples while breastfeeding usually is bilateral, severe, and a spasm like throbs. The nipple usually turns very white but may be blue, purple, or red, said Ms. Wiener, a certified nurse-midwife at the university.

This problem has been misdiagnosed as a candidal infection. Among 12 women in a 2004 case report who ultimately were diagnosed with Raynaud phenomenon of the nipples, 8 had been treated for candidiasis of the breast. Following them for 4 months and diligently taking detailed histories led to the correct diagnosis and treatment, she said.

A recent patient seen by Ms. Wiener said she had been diagnosed with Raynaud syndrome about 5 years before her pregnancy. She complained of episodes in which her nipples would become cold and then go into spasms for many hours. "She was very concerned, appropriately, that she was going to have difficulty breastfeeding," Ms. Wiener said. Sending patients in whom you suspect this problem to a lactation consultant to identify poor latch can support the diagnosis. Alternatively, try applying cold compress or ice to the nipple to see if it triggers the phenomenon. It’s important to prepare the woman for the effect this may have. "I’ve done this twice. In one case, I got a dramatic response," she said. "I know this sounds horrible," but it’s preferable to prescribing treatment without a firm diagnosis.

The treatment of choice is the calcium channel blocker nifedipine, 5 mg b.i.d. for 2 weeks. "It’s very quick acting," and a vasodilator, she said. "The handful that I have treated have responded very well and didn’t need a repeat of the prescription. Why that is, I can’t tell you."

Raynaud phenomenon of the nipples has been associated with factors that restrict the blood vessels, including rheumatologic diseases, carpal tunnel syndrome, autoimmune diseases, cigarettes, and caffeine.

Advise the patient to avoid exposure to cold, vasoconstricting medications, nicotine, and caffeine. In most cases, warm compresses or warm showers may suffice as treatment. Topical nitrglycerine appears to be effective treatment in half of cases.