Clinical images. (A) Patient no. 1: (A1) Pre UC-MSCs infusions: well-defined erythematous plaques with adherent silvery scales symmetrically distributed throughout the body, mainly including the forehead, face, upper chest, abdomen, back, and legs; (A2) Six months after UC-MSCs infusion; (A3) Clearance of psoriasis (12 months after starting UC-MSCs infusion). (B) Patient no. 2: (B1) Pre the first UC-MSCs infusion: drip-like plaques with adherent silvery scales distributed extensively, mainly on extensor aspects of elbows and knees, back, lumbosacral region, and around the umbilicus; (B2)
After the third UC-MSCs infusion, the patient’s skin turned smooth without any active lesions (the pigmentation was due to the historical steroidal agent). UC-MSCs = umbilical cord-derived mesenchymal stem cells.

Psoriasis is an incurable immune-mediated disease, which affects approximately 2% of the world’s population. Current treatments, including newly emerged biologic agents, have some limitations. Here, we report 2 cases of psoriasis vulgaris treated by umbilical cord-derived mesenchymal stem cells (UC-MSCs). In these 2 cases, both of the patients remained relapse free for 4 or 5 years.

Patient 1: On July 7, 2009, a 35-year-old man, who had suffered psoriasis for 12 years and was newly diagnosed with diffuse large B-cell lymphoma (stage IV), came to our hospital. Three cycles of standard lymphoma chemotherapies and 2 autologous hematopoietic stem cell transplantations (auto-HSCT) were performed. Before the first transplantation, the physical examination showed numerous erythematous lesions with adherent silvery scales symmetrically distributed throughout the patient’s body. The distribution of the plaques clearly eased after both conditioning regimens were performed 2 times, yet new skin lesions appeared within 6 weeks. Moreover, after the second transplantation, the patient suffered repeated infections, with continuous fever around 38°C and unstable blood counts (white cell count was 5.27 × 10^9/L with use of granulocyte colony-stimulating factor, hemoglobin was 107 g/L, platelet count was 55 × 10^9/L). After patient’s infection had been controlled, we gave him one dose (1 × 10^6/kg) of UC-MSCs to support engraftments. Unexpectedly, his skin lesions, as well as engraftment, recovered day by day. Six months later, the patient’s lymphoma underwent complete remission and his psoriasis was significantly relieved. The skin returned to normal within 12 months. Now the patient has been monitored for nearly 5 years. His condition remains stable, with no recurrence of lymphoma or psoriasis.

Patient 2: A 26-year-old woman, who was diagnosed with psoriasis vulgaris when she was 8 years old, came to our hospital in October 2011. She described how her symptoms got worse every autumn and winter after suffering psoriasis. Although topical steroidal agents could temporarily relieve her symptoms, the psoriasis still relapsed every year. Physical examinations after the patient had been admitted to our hospital showed that salmon-pink plaques were covered by silvery scales and were distributed all over the body. Initially, we gave her 3 infusions of UC-MSCs (1 × 10^6/Kg each time) over 3 successive weeks. Gradually, her whole body surface turned smooth. Three months later, we gave her 2 more UC-MSC infusions as consolidating therapies. The psoriasis has been relapse free for 4 years now.

MSCs are heterogeneous cells that can differentiate into various types of cells and secrete cytokines. We gave the first patient MSCs based on 2 reasons: one is that MSCs could support hematopoiesis, the other is that MSCs have already been used in autoimmune diseases. Although auto-HSCT may have played a part in the release of the first patient’s psoriasis, it is still under the risk of relapse. The patient who underwent auto-HSCT and UC-MSCs infusion showed no symptoms of psoriatic relapse after nearly 5 years. In addition, MSCs have a unique advantage in terms of safety. We assume that MSCs may be involved in the following 4 aspects: migration to skin lesions, immunomodulation, limitation of autoimmunity, and local paracrine effects. However, more cases are needed to determine the efficacy of MSCs and their infusion dose, method, and delivery time.

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**Case Studies, communication, psoriasis, Stem Cells, Dermatology, psoriasis, stem cells**

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**Cardiologists Receive Little Nutrition Education in Med School**
Writing in the American Journal of Medicine, Devries et al reported that "a large proportion of cardiovascular specialists received minimal medical education and training in nutrition, and current trainees continue to experience significant education and training gaps." In the video, AJM Editor-in-Chief Joseph S. Alpert, MD, suggests that nutrition education might be more important to med students than organic chemistry, since so many diseases can be linked to poor diet and obesity. "A Deficiency of Nutrition Education and Practice in Cardiology" by by Devries et all was published in the November 2018 issue of the American Journal of Medicine. You can read it as amjmed.com.

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United States physicians were studied by Shanafelt et al in 2011, and again in 2014, regarding burnout and satisfaction with work–life balance.1 Physician burnout increased significantly, from 45.5% to 54.4%. Parallel studies of all US workers during the same period showed no changes.

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Hair loss is of deep concern to patients, mainly because of its effect on appearance. On rare occasions, however, areas of balding can signal malignancy. A 33-year-old woman was referred to our dermatology clinic because of a 15-year history of scalp eruption accompanied by intense itching and progr...

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(A) Ultrasonography demonstrated a linear hypoechoic structure (arrows) in an area of tissue breakdown in the left lobe of the liver. (B) Magnetic resonance imaging (MRI) showed a hypointense, coiled structure (arrows) in an abscess in the liver’s left lobe. (C) MRI disclosed a linear hypointense ...