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FreeStyle Libre: contact irritation versus contact allergy

Nesrine Brahimi and colleagues (April 8, p 1396)[1] recently expressed their concern on the origin and management of cutaneous adverse events arising from FreeStyle Libre (Abbott Diabetes Care, Witney, Oxfordshire, UK), a sensor-based flash-continuous glucose monitoring system. A study by Bolinder and colleagues (Nov 5, 2016, p 2254)[2] indeed reported adverse skin effects when participants were using the device, although participants with a known sensitivity to medical adhesives had been excluded from the trial. In their reply to the Correspondence of Brahimi and colleagues, Bolinder and colleagues (April 8, p 1396)[3] stated that when cutaneous side-effects did occur they were mostly managed using barriers, or topical pharmaceuticals, or both, or by relocating the device to another area of the skin. The skin symptoms were believed to be related to skin temperature, humidity, or the duration of exposure, or a combination of these factors, indicating contact irritation rather than contact allergy. However, we recently reported[4] that isobornyl acrylate, which has been shown by chemical analysis to be present in FreeStyle Libre, is a skin sensitiser, provoking allergic contact dermatitis in 12 (80%) of 15 patients. All 12 patients developed severe, itchy dermatitis on the application site, which was sometimes complicated by a characteristic, allergic, spreading reaction. This spreading reaction should not be confused with contact irritation, which is strictly confined to the application site and is usually associated with a burning or stinging sensation instead of a profound itch. The onset of the dermatitis (≥2 weeks after the first use of the device) indicated primary sensitisation by isobornyl acrylate, instead of a pre-existing allergy to acrylates. Some patients had to discontinue use of the device as, contrary to Bolinder and colleagues' suggestions,[3] bandages and barrier sprays did not provide any relief, and the use of topical products under the adhesive was not considered a workable solution either. In contact allergy, complete avoidance of or a substantial decrease in exposure to the allergen responsible is the only effective solution, but this requires identification of the allergen, which in turn necessitates cooperation from the manufacturer. The identification of isobornyl acrylate in our case series[4] was only possible by close collaboration with several dermatology departments. Apparent difficulty in obtaining cooperation from pharmaceutical companies and no complete ingredient labels on medical devices such as FreeStyle Libre certainly contribute to incomplete investigations of many similar cases, and potentially to their under-reporting. In this regard, more effort by the pharmaceutical industry to aid accurate investigations would be of great value to patients who could benefit from the advantages such devices might offer in controlling their diabetes.

We declare no competing interests.

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Van den Bent MJ, Baumert B, Erridge SC, et al. Interim results from the CATNON trial (EORTC study 26053-22054) of treatment with concurrent and adjuvant temozolomide for 1p/19q non-co-deleted anaplastic glioma: a phase 3, randomised, open-label intergroup study. Lancet *2017;* **390:** *1645–53*—In the list of affiliations for this Article (published online first on Aug 8, 2017), "Prof R Stuff MD" should have read "Prof R Stupp MD". This correction has been made to the online version as of Oct 5, 2017, and the printed Article is correct.

GBD 2015 Tobacco Collaborators. Smoking prevalence and attributable disease burden in 195 countries and territories, 1990–2015: a systematic analysis from the Global Burden of Disease Study 2015. Lancet *2017;* **389:** *1885–1906*—In this Article (published online first on April 5, 2017), Karzan A Mohammad's second affiliation was missing from the Affiliations list, and "Joshua Salomon" should have been listed as "Joshua A Salomon" in the Collaborators list. In the appendix, all column headings in table S8 should have been "rate per 1000". These corrections have been made to the online version as of Oct 5, 2017.

Kroisel PM, Häusler M, Klaritsch P, et al. Targeted enrichment sequencing in two midterm pregnancies with severe abnormalities on ultrasound. Lancet *2017;* **389:** *1857–58*—In this Case Report, the third author's name should have been spelt Philipp Klaritsch. This correction has been made to the online version as of May 25, 2017.