

## Technical Note

## Hip Chondral Defects: Arthroscopic Treatment With the Needle and Curette Technique and ChondroFiller

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**Abstract:** Management of symptomatic focal cartilage defects of the hip can be challenging. Cells, scaffold therapies, and injectable agents have emerged as an adjunctive modality to improve clinical outcomes. Long and malleable needles that can be bent are used to release these kinds of biological products. Distance between the tip of the needle and the area to be filled should be minimal to ensure full contact with the chondral lesion to avoid losing material inside the hip cavity and to increase the efficiency of the release of the product. Nevertheless in many cases the accessibility is not easy, and the distance between the tip of the needle and the area to be treated is such that the efficiency of the release is difficult, if not impossible. We aim to describe a simple, inexpensive, and reproducible technique to facilitate the implantation of biologic and injectable materials in hip chondral defects during arthroscopy: the use of a combination of a curette and a needle inside the tip of the curette. Additionally we describe the use of ChondroFiller liquid, a liquid cell-free collagen matrix, for the treatment of symptomatic full-thickness chondral defects of the hip in a 1-step arthroscopic procedure.

Chondral lesions are commonly found during hip arthroscopy in patients with femoroacetabular impingement, can progress to osteoarthritis if left untreated,<sup>1</sup> and can cause significant pain and functional impairment. Microfracture is the current standard of treatment for small chondral lesions encountered during hip arthroscopy with good outcomes and minimal complications but results in a fibrocartilaginous tissue lacking hyaline articular structure and clinical benefit that is variable beyond 2 to 3 years.<sup>2</sup> Cam-type femoroacetabular impingement (FAI) typically produces acetabular cartilage lesions that can be quite extensive in

young and active patients.<sup>3</sup> These cartilage lesions start at the periphery and are typically located anterosuperiorly in the area of impingement. Scaffolding materials and cell-based therapies that can be injected into the cartilage lesion have been described with the aim of improving or augmenting traditional microfracture, to achieve more consistent success and to facilitate cartilage repair. ChondroFiller liquid (Amedrix GmbH, Esslingen, Germany) is a cell-free 2-component collagen type-1 gel that is isolated out of rat tail tendons, and it is a promising technique in the treatment of cartilage lesions. Injectable agents like ChondroFiller liquid have been developed with the potential of an easier and less-invasive implantation process because they are applied as a highly adhesive gel. This provides the framework for the formation of new cartilage. Implantation techniques of these products and other therapies using a conventional needle are technically challenging in the hip because of its constrained nature and because the typical acetabular cartilage defect is located in the anterolateral marginal area that is located in a steeply sloping surface or even in an overhang situation that makes the application process difficult. The purpose of this Technical Note is to describe the arthroscopic treatment of chondral lesions greater than 2 cm in the hip with ChondroFiller in a 1-step procedure and to describe a reproducible, efficient, and quicker

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# Arthroscopic Treatment Of Hip Chondral Defects Autologous

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