Hyperthermic intraperitoneal chemotherapy in epithelial ovarian cancer: current evidence-based indications

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Biography: Rene Pareja is a gynecologist-oncologist at Astorga Oncology Clinic in Medellin and the National Cancer Institute in Bogotá, Colombia. Dr. Pareja is a reviewer for more than 20 specialty journals, an Associate Editor for IJGC, and a member of the board of directors of the International Gynecological Cancer Society (IGCS). He is the author of nine book chapters and more than 70 publications in peer-reviewed journals, and at IGCS 2021 he received an award for Community Advancement in Resource-Limited Settings.

Unfortunately, epithelial ovarian cancer is diagnosed in 80% of cases as locally advanced disease, with intraperitoneal spread, ascites, and multiorgan involvement. This is challenging for all the members of the therapeutic team, who must decide what should be the goal for surgical treatment in order to achieve a R0 resection. During the last 20 years, hyperthermic intraperitoneal chemotherapy has emerged as a promising alternative, in facing this difficult disease. There is a steadily increasing number of publications on this issue, most of them retrospective, addressing the problem in different clinical scenarios: after primary debulking surgery, after neoadjuvant chemotherapy, relapse disease, and combinations of the aforementioned settings.1 2

Three prospective randomized trials have been published, the most relevant that by van Driel and her group in 2018,3 including patients undergoing interval debulking surgery; another from the Memorial Sloan Kettering cancer center, published by Zivanovic et al,4 which included patients undergoing secondary cytoreduction after a platinum-sensitive relapse,
assessing the oncological benefit of adding hyperthermic intraperitoneal chemotherapy as part of treatment; and the third, from Korea,5 which included primary and interval debulking surgery, addressing the oncological outcome. This educational video lecture aims to update available information on hyperthermic intraperitoneal chemotherapy and its current role in locally advanced epithelial ovarian cancer (Video 1, Figure 1).