

Abstract

Hysteroscopic Instrumentation Today

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The hysteroscopy technique is advance rapidly in the recent years due to development of hysteroscopic instrumentations. Basic hysteroscopic instrumentations consist of lens, sheath, instruments for intrauterine operation, and instrument to control uterine distention media. The diameter of rod lens is reduced to only 2 mm with clear picture quality. Shape of sheath is changed from circle to oval profile, 4-5 mm in total diameter, strictly correlated to the anatomy of endocervical canal. Oval sheath can carry lens and also small operative instrument into uterine cavity with small outer diameter. Diagnostic hysteroscopy today can perform minor intrauterine procedures in an office without anesthesia, as a “see & treat” procedure. The most cost-effective energy source for major intrauterine procedures is still electrosurgery. The electrosurgery system is changed from unipolar to bipolar that can be used with physiologic solution for uterine distension hence reduce the complication from water intoxication. For flexible hysteroscope, the new model replaces the image fiber bundle with a video chip that can provide image quality comparable with a rigid rod lens. But flexible hysteroscope are rarely used because of their high cost and fragility.

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