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ORIGINAL ARTICLE

**Superiority of the EF-120-00-3F biopsy forceps in the histopathological evaluation of upper urinary tract specimens**

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**Abstract**

*Purpose* The purpose of this study was to analyze the efficacy of two different biopsy forceps with respect to their functionality and quality for histological assessment of upper urinary tract biopsies.

*Methods* We compared flow rates, active deflection angle and histological quality of specimens taken from upper urinary tract biopsies of 40 consecutively treated patients between October 2011 and October 2012. Two different biopsy forceps [group A = 20 patients: “Piranha®” (Boston Scientific, Natick, USA) versus group B = 20 patients: “EF-120-00-3F” (Euromedical GmbH, Siegsdorf, GER)] were assessed.

*Results* The specimens obtained with the “EF-120-00-3F” were superior in terms of tissue preservation such as intact urothelium/tissue fragmentation and the prevention of artifacts due to tissue compression (existence of artifacts/nucleus evaluation). Furthermore, due to superiority of tissue preservation, tissues obtained with the “EF-120-00-3F” showed better tissue orientation in the sense of anatomic evaluation of invasion and deep layer involvement. Irrigation flow rates did not differ significantly while deflection angle was more impaired with the “Piranha” biopsy forceps. No difference was observed with the handling of both biopsy forceps.

*Conclusions* We conclude that the “EF-120-00-3F” biopsy forceps represent a valuable modification of antegradely insertable instruments that qualifies for improved and correct staging as well as diagnosis of upper urinary specimens in comparison with standard biopsy forceps.

**Keywords** Upper urinary tract · Biopsy forceps · Urothelial carcinoma · TCC · Backload · Piranha

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Reference-No.:



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	EFHA-120-00-3F	Rat-toothed forceps 1,0mm, NL120cm, Narrowing distal shaft soft, 3 Finger-grip
	EFHA-120-00-3F/S	with closingspring on 3 F.-grip
	EFS-120-00-3F	Long-oval cups serrated forceps 1,0mm, NL120cm, Narrowing distal shaft - soft, 3 Finger-grip
	EFS-120-00-3F/S	with closingspring on 3 F.-grip
	EFKZ-120-10-3F/S	FK forceps, 1,0 mm, 3-Prongs, flex-shaft, re-usable, 120 cm with closingspring on 3 F.-grip

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Instruments for URS

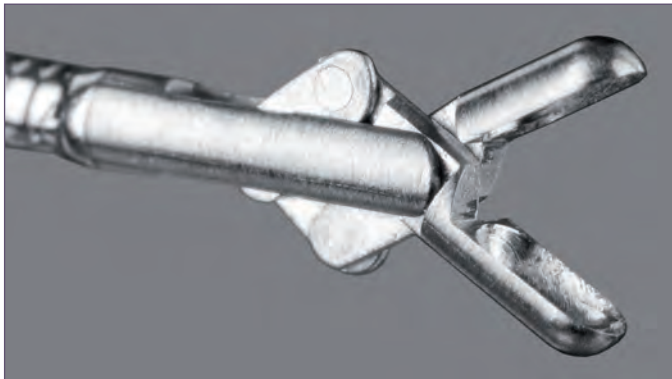


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