LETTER TO THE EDITOR

"Re: Radiation protection in pediatric radiology"

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Dear Sir,

I read the article by Alzen and Benz-Bohm with great interest [1]. This study is a valuable contribution to the literature which elucidates the protection of pediatric patients from the harmful effects of radiation exposure. Furthermore, they reviewed and presented essential and practical ways for protection.

Presently, endourologic procedures such as retrograde pyelography (RGP), retrograde intrarenal surgery (RIRS), percutaneous nephrolithotomy (PCNL), and extracorporeal shock wave lithotripsy (SWL) are increasing in urology practice and most often rely on fluoroscopy. In these procedures, the patient, surgeon, and participating staff will be exposed to some level of ionizing radiation. Therefore, urologists should undertake protective measures for themselves and patients due to the well-known harmful effects of radiation [2, 3]. Despite this information, we estimated and showed that the protection of staff and patient exposed to radiation was poorly coordinated and awareness of urologists about gonad protection was not satisfactory than expected [4, 5].

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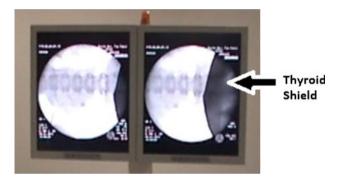


Fig. 1 Fluoroscopic appearence of thyroid shield at pelvic region



Fig. 2 Thyroid shield is seen under a pediatric patient at prone position

We protect gonads of pediatric patients from radiation exposure by a practical way during endourological procedures, especially in PCNL. The PCNL procedure is performed



622 Urol Res (2012) 40:621–622

under general anesthesia at prone position. Large-sized leaded protective devices are not suitable for pediatric patients during these procedures. Therefore, we use thyroid shields for gonad protection by placing them on the pelvic region (Figs. 1, 2).

We recommend the clinics to use gonad protection especially in pediatric patients. Therefore, they can use thyroid shields for this aim and they can find these materials at their fingertips easily.

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