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Prospective Study

Off-label-use of sulfur-hexafluoride in voiding urosonography for diagnosis of vesicoureteral reflux in children: A survey on adverse events

Alexander Sauer, Clemens Wirth, Isabel Platzner, Henning Neubauer, Veldhoen Simon, Dierks Alexander, Reinhard Kaiser, Andreas Kunz, Meinrad Beer, Thorsten Bley

Abstract

AIM

To evaluate the risk profile of sulfur hexafluoride in voiding urosonography (VUS) based on a large cohort of children.

METHODS

Since 2011 sulfur hexafluoride (SH, SonoVue®, Bracco, Italy) is the only ultrasound contrast available in the EU and its use in children has not been approved. Within a four-year-period, 531 children with suspected or proven vesicoureteral reflux (f/m = 478/53; mean age 4.9 years; 1 month - 25.2 years) following parental informed consent underwent VUS with administration of 2.6 +/- 1.2 ml SH in a two-center study. A standardized telephone survey on adverse events was conducted three days later.

Match Overview

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作者: MM Woźniak - 2013 - 被引用次数: 5 - 相关文章

2013年12月30日 - **Vesicoureteral reflux** appears in 20–50% of **pediatric** patients with recurrent urinary tract infections. ... exposure to potential **adverse reactions** to iodine contrast agents, ... the method, and the **off-label use** of the contrast agent (SonoVue®), Currently, SonoVue®, which is a suspension of **sulfur hexafluoride** ...

Intravenous contrast-enhanced sonography in children and ... - NCBI

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作者: M Stenzel - 2013 - 被引用次数: 3 - 相关文章

2013年6月30日 - In none of the patients medical **treatment** for **adverse effects** was necessary. ... were no severe **adverse effects**, however, **off-label use** in **children** needs to ... imaging in investigating vesicoureterorenal reflux (VUR) in **children**. Darge K. **Voiding urosonography** with US contrast agents for the **diagnosis** of ...

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作者: AC Roić - 2016 - 被引用次数: 1

in both the **diagnosis** and grading of **vesicoureteral reflux** in **children**. Contrast-enhanced **voiding urosonography** is a radiation free, reliable, **sulphur hexafluoride** microbubbles, with a **Adverse events** with this method are ex- ... (43, 47). Its **use is off-label** and the lack of ... Paediatric fluoroscopy-

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In that **survey** six minor **adverse events** were reported in five **children**. The intravesical administration of US contrast agents for **diagnosis** of **vesicoureteric reflux** entails the **use** of a bladder catheter. second-generation lipid/**sulfur hexafluoride** US contrast ... **label** for **pediatric** contrast-enhanced **voiding urosonography**.

Safety of contrast-enhanced ultrasound in children for non ... - Springer

<link.springer.com/article/10.1007/s00247-013-2746-6> - 翻译此页

作者: K Darge - 2013 - 被引用次数: 42 - 相关文章

2013年7月11日 - No **adverse events** could be attributed to the contrast agent. (Bracco, Milan, Italy), which contains lipid/**sulfur hexafluoride** [5, 6]. **Diagnostic** imaging for **vesicoureteric reflux** (VUR) is a common procedure in pediatrics. ... **off-label** for **pediatric** contrast-enhanced **voiding urosonography** [5, 54, 56–61].

Voiding urosonography with second-generation ultrasound contrast ...

<link.springer.com/article/10.1007/s00431-014-2297-3> - 翻译此页

作者: LS Wong - 2014 - 被引用次数: 13 - 相关文章

2014年3月23日 - **Vesicoureteric reflux** has been associated with paediatric urinary tract infection. ... modality in the investigation of **vesicoureteric reflux** in **children**. Any **adverse reactions** related to contrast allergy, catheterization or infection were ... is still **off label** among **children**, the intravesical use

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作者: K Darge - 2013 - 被引用次数: 43 - 相关文章

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2D/3D/4D contrast-enhanced voiding urosonography in the diagnosis ...

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作者: MM Woźniak - 2013 - 被引用次数: 6 - 相关文章

2013年12月30日 - **Vesicoureteral reflux** appears in 20–50% of **pediatric** patients with recurrent urinary