

Science For A Better Life

Clinical Study Synopsis

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EU PAS Abstract

05-Feb-2020

Study no. 19677

Title	UVIA: Risk of anaphylactoid reactions of Iopromide after intra-
	arterial administration
Keywords	Contrast Medium, Radiology, Iopromide, anaphylactoid reactions
Rationale and	The safety profile of Iopromide and all other iodinated contrast
background	media is well understood, there is a continuous discussion
8	pertaining to the nature of anaphylactoid reactions which are
	unpredictable. Since anaphylactoid reactions are rare only a
	retrospective analysis on a large database bears the potential of
	answering this scientific question.
Research question and	Evaluate the risk of anaphylactoid reactions of Iopromide after
objectives	intra-arterial administration compared to intravenous
	administration.
Study Design	The study was designed to investigate the risk of anaphylactoid
	reactions to Iopromide after intra-arterial versus intra-venous
	administration.
Setting	In this integrated analysis the data of four company sponsored
	non-interventional studies 'PMS I', 'Ultravist in CT', 'IMAGE'
	and 'TRUST' were pooled.
Subjects and Study Size,	About 122,000 records of patients with intra-venous and approx.
including dropouts	28,000 patients with intra-arterial administration were expected
	for evaluation.
Variables and Data	The primary variables to answer the study objectives were the
sources	number and percentage of anaphylactoid reactions which were
	documented by pooling data of four company sponsored non-
D. K	interventional studies with iopromide.
Results	Anaphylactoid reactions were significantly more frequently
	recorded after i.v. than after i.a. administration, 0.7 % vs 0.2%,
	respectively ($p < 0.0001$). Adjusted Odds ratio (i.a. vs. i.v.) was
	0.23 (95 % C.I. 0.16 - 0.32) for all countries together. For China only: 0.22 (0.11 - 0.44); for all countries without China: 0.36
	(0.25 - 0.53).
	The most frequent anaphylactoid reactions were skin reactions
	(erythema, urticaria, rash), reported in 508/133,331 patients
	(0.4%), followed by pruritus (n=294; 0.2%), cough/sneezing
	(n=151; 0.1%) and dyspnea/bronchospasm $(n=105; <0.1%)$.
	Clinically relevant severe adverse reactions like anaphylactic
	shock, laryngeal edema and respiratory arrest were recorded once
	each (Table 5, Figure 2).
Discussion	This study showed anaphylactoid reactions to be significantly
	more frequent after i.v. than after i.a. administration, 0.7 % vs
	0.2% (p<0.0001), respectively. This risk difference remained even
	after adjustment for potential confounders. Also the specific
	symptoms, i.e., erythema/urticarial/rash, pruritus, cough/sneezing



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	and dyspnea/bronchospasm were more often seen after i.v. administration. To the best of our knowledge, this has not been shown before in a large cohort study, and confirms a hypothesis concerning the nature and patho-mechanisms of these reactions.
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