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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 47708

Manuscript Type: REVIEW

Induced pluripotent stem cells for therapy personalization in pediatric patients: Focus on drug induced adverse events

Elena Genova, Federica Cavion, Marianna Lucafò, Luigina De Leo, Marco Pelin, Gabriele Stocco, Giuliana Decorti.

Abstract

Adverse drug reactions (ADRs) are one of the major clinical problems, in particular in special populations, such as pediatric patients. Indeed, ADRs may be caused by a plethora of different drugs leading, in some cases, to hospitalization, disability or even death. In addition, pediatric patients may respond differently to drugs with respect to adults and may be prone to develop different kinds of ADRs, leading, in some cases, to more severe consequences. To improve the comprehension, and thus the prevention, of ADRs, the set-

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Among the technologies that could provide innovative disease models, induced pluripotent stem cells (iPSCs) is one of the most promising. Indeed, one application of this technology is patient-specific disease modeling. iPSCs obtained by reprogramming patients' cells collected from accessible tissues, have the unique capability to differentiate, under an adequate stimulus, into any human cell type.

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Keywords: **Induced pluripotent stem cells**, disease modeling, **drug adverse effects**, **pediatric patients**, **therapy personalization**, innovative pharmacological models, hepatotoxicity, pancreatitis.

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Induced Pluripotent Stem Cells as a Model for Therapy Personalization of Pediatric Patients: Disease Modeling and Drug Adverse Effects Prevention. (PMID:28782468) ... could be the application of iPSCs technology in the early stage of the drug discovery process to model druginduced adverse events. In this review, recently developed disease ...

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In this review, recently developed disease models based on iPSCs will be discussed, with a particular focus on available models of drugs' adverse effect, in particular hepatic/pancreatic toxicity. Keywords: **Induced pluripotent stem cells**, disease modeling, **drug adverse effects**, **pediatric patients**, **therapy personalization**, innovative ...

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