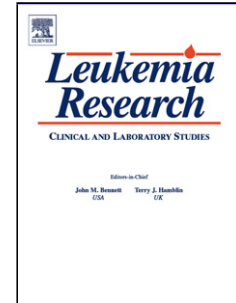


## Accepted Manuscript

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Authors: Colleen A.C. Wong, Shannon A.Y. Wong, Heather A. Leitch



PII: S0145-2126(18)30033-X  
DOI: <https://doi.org/10.1016/j.leukres.2018.02.005>  
Reference: LR 5913

To appear in: *Leukemia Research*

Received date: 26-12-2017  
Revised date: 3-2-2018  
Accepted date: 6-2-2018

Please cite this article as: Wong Colleen AC, Wong Shannon AY, Leitch Heather A. Iron Overload in Lower International Prognostic Scoring System Risk Patients with Myelodysplastic Syndrome Receiving Red Blood Cell Transfusions: Relation to Infections and Possible Benefit of Iron Chelation Therapy. *Leukemia Research* <https://doi.org/10.1016/j.leukres.2018.02.005>

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# Iron Overload in Lower International Prognostic Scoring System Risk Patients with Myelodysplastic Syndrome Receiving Red Blood Cell Transfusions: Relation to Infections and Possible Benefit of Iron Chelation Therapy

Colleen A. C. Wong<sup>1</sup>, Shannon A. Y. Wong<sup>1</sup>, Heather A. Leitch<sup>2</sup>

<sup>1</sup>Faculty of Medicine, Royal College of Surgeons, Dublin, Ireland

<sup>2</sup>Division of Hematology, St. Paul's Hospital, University of British Columbia, Vancouver, Canada

Short title: Iron Overload and Infections in MDS

Key words: MDS; iron chelation therapy; iron overload; infection

Abstract word count: 249

Word count: 3274

Corresponding author: Heather A. Leitch, MD, PhD, St. Paul's Hospital, 440 – 1144 Burrard Street, Vancouver, British Columbia, Canada V6Z 2A5, fax: 604-684-5794 email: [hleitch@providencehematology.com](mailto:hleitch@providencehematology.com)

## Highlights

- Increased infection incidence occurs in transfused congenital anemias patients.
- We reviewed infections in transfused low risk MDS +/- iron chelation therapy (ICT).
- Number and type of infections and neutrophil counts were similar between groups.
- Median time to 1<sup>st</sup> infection (TTI) was 27 & 7.8 months in ICT & non-ICT,  $p < 0.0001$ .
- ICT was significant for TTI in a multivariate analysis,  $p = 0.02$ , hazard ratio 0.3.
- These results should be confirmed in larger, prospective analyses.

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