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1 Name of Journal: *World Journal of Gastroenterology*

Manuscript NO: 50351

Manuscript Type: ORIGINAL ARTICLE

Retrospective Study

Nucleoside diphosphate-linked moiety X-type motif 15 R139C genotypes impact the 6-thioguanine nucleotide cut-off levels to predict thiopurine-induced leukopenia in Crohn's disease patients

Zhu X *et al.* 6TGN levels to predict thiopurine-induced leukopenia

Xia Zhu, Kang Chao, Miao Li, Wen Xie, Hong Zheng, Jin-Xin Zhang, Pin-Jin Hu, Min Huang, Xiang Gao, Xue-Ding Wang

Abstract

BACKGROUND

Thiopurine-induced leukopenia (TIL) is a life-threatening toxicity and occurs with high frequency in the Asian population. Although **5** nucleoside diphosphate-linked moiety X-type motif 15 (*NUDT15*) significantly improves the predictive sensitivity of TIL, more than 50% of this toxicity cannot be predicted by this mutation. The potential use of the 6-thioguanine nucleotide (6TGN) level to predict TIL has been explored, but no decisive conclusion has been reached. Can we increase the predictive sensitivity based on 6TGN by subgrouping patients according to their *NUDT15* R139C genotypes?

AIM

To determine the 6TGN cut-off levels after dividing patients into subgroups according to their *NUDT15* R139C genotypes.

검색결과 약 8개 (0.75초)

🔗 <https://www.ncbi.nlm.nih.gov/pmc/PMC5716599> ▾ 이 페이지 번역하기

Measurements of 6-thioguanine nucleotide levels with TPMT ...

JH Lee 저술 - 2017 - 6회 인용 - 관련 학술자료

2017. 12. 5. - **Thiopurines**, such as azathioprine (AZA) and 6-mercaptopurine (6-MP), are drugs used ... **NUDT15 (nucleoside diphosphate-linked moiety X-type motif 15)** genetic to evaluate factors that **predict** clinical response and **leukopenia**. ... The median **6-TGN levels of patients** with a variant TPMT **genotype** were ...

🔗 <https://www.ncbi.nlm.nih.gov/pmc/PMC5846876> ▾ 이 페이지 번역하기

Pharmacogenetics of thiopurines for inflammatory bowel ...

Y Kakuta 저술 - 2018 - 12회 인용 - 관련 학술자료

2017. 11. 30. - The **thiopurine** drugs 6-mercaptopurine (6-MP) and azathiopurine (AZA) ... and **6-thioguanine nucleotides** (6-TGNs) consist of 6-T(d)GMP, 6-T(d)GDP, and 6-T(d) GTP. 6-TGN **levels** were found to be significantly higher in **patients** with **Nucleoside diphosphate-linked moiety X-type motif 15** diplotypes ...

🌐 <https://www.frontiersin.org/articles/full> ▾ 이 페이지 번역하기

Revisiting the Role of Thiopurines in Inflammatory ... - Frontiers

SZ Lim 저술 - 2018

2018. 10. 8. - Azathioprine and 6-mercaptopurine, often referred to as **thiopurine** ... **levels of** two major **thiopurine** metabolites, **6-thioguanine nucleotides** and ... It is categorized into **Crohn's disease (CD)** and ulcerative colitis (UC), which Furthermore, the interpretation of **NUDT15 genotypes** is complicated in **patients** ...

[国内版](#)[国际版](#)

Nucleoside diphosphate-linked moiety X-type motif 15 R139C

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85 Results

Any time ▼

[\(PDF\) NUDT15 R139C-related thiopurine leukocytopenia is ...](#)

https://www.researchgate.net/publication/284360504_NUDT15_R139C-related_thiopurine...

In this study, we investigated the association of NUDT15 **R139C** with **6-thioguanine nucleotide** (6-TGN) **levels** and **thiopurine-induced** leukocytopenia in Japanese **patients** with inflammatory bowel ...

[Pharmacogenetics of thiopurines for inflammatory bowel ...](#)

<https://link.springer.com/article/10.1007/s00535-017-1416-0> ▼

Nov 30, 2017 · A genome-wide association approach to identify Asian-specific pharmacogenetic markers in Korean **patients** with **Crohn's disease** revealed that a non-synonymous single nucleotide polymorphism in **nucleoside diphosphate-linked moiety X-type motif 15** (NUDT15) which causes p.Arg139Cys was strongly associated with **thiopurine-induced** early **leukopenia** ...

Cited by: 7

Author: Yoichi Kakuta, Yoshitaka Kinouchi, Tooru S...

Publish Year: 2018

[Systematic review with meta-analysis: risk factors for ...](#)

<https://onlinelibrary.wiley.com/doi/pdf/10.1111/apt.15403> ▼

Conclusions: TPMT and NUDT15 variants **predict thiopurine-induced leukopenia**. ... **nucleoside diphosphate-linked moiety X-type motif 15** ... 3.3.1 | **6-Thioguanine nucleotide levels** All studies that compared median or mean 6-TGN **levels** between **patients** with and without **leukopenia**, reported higher median ...

Author: Sara van Gennep, Kadère Konté, Berrie ...

Publish Year: 2019

[Association of Genetic Variants in NUDT15 With Thiopurine ...](#)

https://www.researchgate.net/publication/331369264_Association_of_Genetic_Variants_in...

Aim: To investigate the influence of NUDT15 **R139C**, thiopurine S-methyltransferase (TPMT), 6-TGN and 6-MMPR on **thiopurine-induced leukopenia** in Chinese **patients** with **Crohn's disease**.

[Genes implicated in thiopurine-induced toxicity: Comparing ...](#)

<https://www.nature.com/articles/srep34658>

Oct 05, 2016 · Nine **patients** out of 100 (**Crohn's disease** ... (**nucleoside diphosphate linked moiety X**)-**type motif 15**; ... A common missense variant in NUDT15 confers susceptibility to **thiopurine-induced leukopenia**.

Cited by: 7

Author: Tracy Coelho, Gaia Andreoletti, James J. A...

Publish Year: 2016

Author: Tracy Coelho

[Azathioprine Metabolism and TPMT Publications | PubFacts](#)

<https://www.pubfacts.com/search/Azathioprine+Metabolism+and+TPMT> ▼