

Проект на тему: Больные гепатитом на аппарате гемодиализа

Выполнил: Алимжан Сержан

Группа: 37-01

Факультет : общая медицина

Преподаватель: Тё Н.В.

Проблема

Изучить воздействие протеина хемоаттрактанта Моноцита 1 (MCP-1) и его вовлеченность в патогенез почечных заболеваний, диабета и клиренса вируса гепатита В (HBV).

По PICO

- **P** – больные на гемодиализе
- **I** – изучение реактивности к прививке от гепатита В и реакции МСР₁
- **C** – 3 группы пациентов, которым ввели вакцину:
 - 1- контрольная группа, в количестве 437 человека;
 - 2- группа, которой ввели вакцину, в количестве 654 человека, из которых 222 были больны диабетом;
- **O** - Не было никаких существенных различий в распределении МСР₁ между исследовательскими группами и контрольными группами, независимо от возникновения диабета и реактивности к прививке от гепатита В

Вопрос

- Оценка распределения MСР1-2518 A/G (rs1024611) у больных на гемодиализе (HD) относительно их реактивности к прививке от гепатита В

Заглавная страница PubMed

The screenshot shows the PubMed website homepage in a browser window. The browser's address bar displays www.ncbi.nlm.nih.gov/pubmed. The page features a search bar with a dropdown menu set to "PubMed" and a "Search" button. Below the search bar, there is a large banner image of books and a tablet, with the text: "PubMed comprises more than 27 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites." The main content area is organized into three columns: "Using PubMed" (with links to Quick Start Guide, Full Text Articles, FAQs, Tutorials, and New and Noteworthy), "PubMed Tools" (with links to Mobile, Citation Matchers, Clinical Queries, and Topic-Specific Queries), and "More Resources" (with links to MeSH Database, Journals, Clinical Trials, E-Utilities, and LinkOut). At the bottom, there are sections for "Latest Literature" (listing articles from Blood, Cell, and Circulation), "Trending Articles" (highlighting a single-cell RNA-seq study), and "PubMed Commons" (featuring a comment on apicomplexan actin polymerization). The browser's taskbar at the bottom shows various application icons and the system clock indicating 22:13 on 18.10.17.

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Latest Literature

New articles from highly accessed journals

- [Blood \(1\)](#)
- [Cell \(7\)](#)
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Trending Articles

PubMed records with recent increases in activity

- [Single-cell RNA-seq reveals a distinct transcriptome signature of aneuploid hematopoietic cells.](#)
Blood. 2017.
- [Tumor and Microenvironment Evolution during Immunotherapy](#)

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Featured comments

- [Assaying apicomplexan actin polymerization: Author M Meissner highlights new report addressing point of discussion.](#)
bit.ly/2hnGmAp
Oct 17

Ключевые слова

- Hemodialysis, hepatitis
- Гемодиализ, гепатит

Поиск по ключевым словам

The screenshot shows a web browser window with multiple tabs. The active tab is the PubMed website. The search bar contains the text "hemodialysis hepatitis". The search results are displayed in a list format. The first result is titled "Glecaprevir and Pibrentasvir in Patients with HCV and Severe Renal Impairment" by Gane E, Lawitz E, Pugatch D, Papatheodoridis G, Bräu N, Brown A, Pol S, Leroy V, Persico M, Moreno C, Colombo M, Yoshida EM, Nelson DR, Collins C, Lei Y, Kosloski M, Mensa FJ. The second result is "A Case of Left Renal Vein Ligation in a Patient with Solitary Left Kidney Undergoing Liver Transplantation to Control Splenorenal Shunt and Improve Portal Venous Flow" by Martino RB, Júnior ER, Manuel V, Rocha-Santos V, D'Albuquerque LAC, Andraus W. The third result is "Successful treatment with tenofovir alafenamide of a HIV/hepatitis B virus coinfecting patient with HIV and hepatitis B virus drug resistance, end-stage renal disease on haemodialysis" by Tartaglia A, Ferrara SM, Sica S, Santantonio T. The search results are sorted by "Most Recent" and there are 4951 items in total. The browser's address bar shows "www.ncbi.nlm.nih.gov/pubmed". The system tray at the bottom indicates the time is 22:13 on 18.10.17.

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Search results

Items: 1 to 20 of 4951 << First < Prev Page 1 of 248 Next > Last >>

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1. Gane E, Lawitz E, Pugatch D, Papatheodoridis G, Bräu N, Brown A, Pol S, Leroy V, Persico M, Moreno C, Colombo M, Yoshida EM, Nelson DR, Collins C, Lei Y, Kosloski M, Mensa FJ. N Engl J Med. 2017 Oct 12;377(15):1448-1455. doi: 10.1056/NEJMoa1704053. PMID: 29020583 [Similar articles](#)

[A Case of Left Renal Vein Ligation in a Patient with Solitary Left Kidney Undergoing Liver Transplantation to Control Splenorenal Shunt and Improve Portal Venous Flow.](#)
2. Martino RB, Júnior ER, Manuel V, Rocha-Santos V, D'Albuquerque LAC, Andraus W. Am J Case Rep. 2017 Oct 11;18:1086-1089. PMID: 29018183 [Similar articles](#)

[Successful treatment with tenofovir alafenamide of a HIV/hepatitis B virus coinfecting patient with HIV and hepatitis B virus drug resistance, end-stage renal disease on haemodialysis.](#)
3. Tartaglia A, Ferrara SM, Sica S, Santantonio T. AIDS. 2017 Oct 23;31(16):2314-2315. doi: 10.1097/QAD.0000000000001623. No abstract available. PMID: 28991029 [Similar articles](#)

[Epidemiology of hepatitis C virus among hemodialysis patients in the Middle East and North](#)

Results by year
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Поиск по ключевым словам

The screenshot shows a web browser window with the PubMed website. The search query is "hemodialysis hepatitis". The results page displays several filters on the left, including "Article types" (Clinical Trial, Review, etc.), "Text availability" (Free full text), "Publication dates" (5 years, 10 years), and "Species" (Humans). The main content area shows "Search results" with 5 items. The first item is a clinical trial titled "Efficacy of Direct-Acting Antiviral Combination for Patients With Hepatitis C Virus Genotype 1 Infection and Severe Renal Impairment or End-Stage Renal Disease" by Pockros PJ et al., published in Gastroenterology in 2016. The second item is "Conversion from Tacrolimus to Cyclosporine A Improves Glucose Tolerance in HCV-Positive Renal Transplant Recipients" by Handisurya A et al., published in PLoS One in 2016. The third item is "Polymorphism of monocyte chemoattractant protein 1 (MCP1 -2518 A/G) and responsiveness to hepatitis B vaccination in hemodialysis patients" by Grzegorzewska AE et al. The right sidebar contains sections for "Titles with your search terms" (listing related articles), "Find related data" (with a database dropdown), and "Search details" (showing the search query: ("haemodialysis"[All Fields] OR "renal dialysis"[MeSH Terms] OR ("renal"[All Fields] AND "dialysis"[All Fields]) OR "renal dialysis"[All Fields]) OR "hemodialysis"[All Fields]).

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Items: 5

Filters activated: Clinical Trial, Free full text, published in the last 5 years, Humans. [Clear all](#) to show 4951 items.

[Efficacy of Direct-Acting Antiviral Combination for Patients With Hepatitis C Virus Genotype 1 Infection and Severe Renal Impairment or End-Stage Renal Disease.](#)
1. Pockros PJ, Reddy KR, Mantry PS, Cohen E, Bennett M, Sulkowski MS, Bernstein DE, Cohen DE, Shulman NS, Wang D, Khatri A, Abunimeh M, Podsadecki T, Lawitz E. Gastroenterology. 2016 Jun;150(7):1590-1598. doi: 10.1053/j.gastro.2016.02.078. Epub 2016 Mar 11. PMID: 26976799 Free Article [Similar articles](#)

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3. Grzegorzewska AE, Pajzderski D, Sowińska A, Jagodziński PP.

Titles with your search terms

Epidemiology of hepatitis C virus among hemodialysis patients in [Epidemiol Infect. 2017]

The accelerated hepatitis B virus vaccination schedule among hemodialysis [J Nephrol. 2017]

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Pockros PJ, Reddy KR, Mantry PS, Cohen E, Bennett M, Sulkowski MS, Bernstein DE, Cohen DE, Shulman NS, Wang D, Khatri A, Abunimeh M, Podsadecki T, Lawitz E.
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Chow KM, Lo SH, Szeto CC, Yuen SK, Wong KS, Kwan BC, Leung CB, Li PK.
Hong Kong Med J. 2012 Dec;18 Suppl 6:41-3. No abstract available.
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[Intramuscular vs intradermal route for hepatitis B booster vaccine in celiac children.](#)
Leonardi S, Praticò AD, Lionetti E, Spina M, Vitaliti G, La Rosa M.
World J Gastroenterol. 2012 Oct 28;18(40):5729-33. doi: 10.3748/wjg.v18.i40.5729.

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Pol Arch Med Wewn. 2014;124(1-2):10-8. Epub 2013 Nov 4.

Polymorphism of monocyte chemoattractant protein 1 (MCP1 -2518 A/G) and responsiveness to hepatitis B vaccination in hemodialysis patients.

Grzegorzewska AE, Paizderski D, Sowińska A, Jagodziński PP.

Abstract

INTRODUCTION: Monocyte chemoattractant protein 1 (MCP-1) is involved in the pathogenesis of renal diseases, diabetes, and hepatitis B virus (HBV) clearance.

OBJECTIVES: The aim of the study was to evaluate the distribution of MCP1-2518 A/G (rs1024611) polymorphic variants in patients on hemodialysis (HD) with respect to their responsiveness to hepatitis B vaccination.

PATIENTS AND METHODS: Patients on HD, never infected with HBV, were enrolled into the study after receiving an appropriate hepatitis B vaccine. The HD group consisted of 601 individuals who responded to vaccination with anti-HBs titer exceeding 10 IU/l considered as protective and 153 nonresponders, in whom no adequate response was observed (anti-HBs, ≤10 IU/l). There were 175 diabetic patients among responders and 47 diabetic patients among nonresponders. Healthy subjects served as controls (n = 437). MCP1 genotyping was determined by polymerase chain reaction-restriction fragment length polymorphism.

RESULTS: The distribution of MCP1 rs1024611 polymorphic variants in controls was as follows: AA, 51%; AG, 41%; GG, 8%. There were no significant differences (P >0.05) in MCP1 distribution between the study groups and controls, independently of the occurrence of diabetes and responsiveness to hepatitis B vaccination. HD groups that were identified based on diabetic status and responsiveness to hepatitis B vaccination did not differ in MCP1 distribution.

CONCLUSIONS: MCP1-2518 A/G polymorphism is not associated with responsiveness to hepatitis B vaccination in patients on HD, independently of whether they have diabetes or not.

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Это когортное исследование так как:

- Участвуют 2 группы пациентов:
 - подверженные воздействию факторов риска
 - не подверженные воздействию
- Группа пациентов со сходным признаком
- Контроль за обеими группами осуществлялся одинаково
- Была оценка исходов

- Авторы: Grzegorzewska AE, Pajzderski D, Sowińska A, Jagodziński PP.
- Дата публикаций: 2013 Nov 4

- PATIENTS AND METHODS:
Patients on HD, never infected with HBV, were enrolled into the study after receiving an appropriate hepatitis B vaccine. The HD group consisted of 601 individuals who responded to vaccination with anti-HBs titer exceeding 10 IU/l considered as protective and 153 nonresponders, in whom no adequate response was observed (anti-HBs, ≤ 10 IU/l). There were 175 diabetic patients among responders and 47 diabetic patients among nonresponders. Healthy subjects served as controls (n = 437). MCP1 genotyping was determined by polymerase chain reaction-restriction fragment length polymorphism.

- ПАЦИЕНТЫ И МЕТОДЫ:
Пациенты на HD, никогда не зараженные вирусом гепатита В, были зарегистрированы в исследовании после приема вакцины против гепатита В. Группа HD состояла из 601 человека, ответивших на вакцинацию с титром anti-HBs, превышающим 10 IU/l, которые рассматривают как защитную и 153 неответающих, в которых никакая соответствующая реакция не наблюдалась (anti-HBs, ≤ 10 IU/l). Было 175 страдающих от диабета пациентов среди отвечающих на вакцинацию и 47 страдающих от диабета пациентов среди неответающих. Здоровые люди служили контрольными группами (n = 437). Генотипирование MCP1 было определено полимеразным полиморфизмом длины фрагмента рестрикции цепной реакции.

- RESULTS: The distribution of MCP1 rs1024611 polymorphic variants in controls was as follows: AA, 51%. AG, 41%. GG, 8%. There were no significant differences ($P > 0.05$) in MCP1 distribution between the study groups and controls, independently of the occurrence of diabetes and responsiveness to hepatitis B vaccination. HD groups that were identified based on diabetic status and responsiveness to hepatitis B vaccination did not differ in MCP1 distribution.

- РЕЗУЛЬТАТЫ: распределение MCP1 rs1024611 полиморфные варианты в контрольных группах было следующие: AA, 51%. AG, 41%. GG 8%. Не было никаких существенных различий ($P > 0.05$) в распределении MCP1 между исследовательскими группами и контрольными группами, независимо от возникновения диабета и реактивности к прививке от гепатита В. Группы HD, идентифицированные на основе диабетического статуса и реактивности к прививке от гепатита В, не отличались по распределению MCP1.

- CONCLUSIONS: MCP₁₀₋₂₅₁₈ A/G polymorphism is not associated with responsiveness to hepatitis B vaccination in patients on HD, independently of whether they have diabetes or not.

- ЗАКЛЮЧЕНИЯ: полиморфизм MCP₁₀₋₂₅₁₈ A/G не связан реактивностью с прививкой от гепатита В у больных на HD, независимо от того, есть ли у них диабет или нет.

Мое мнение

Цель исследования состояла в том, чтобы оценить распределение MСP1-2518 A/G (rs1024611) полиморфные варианты у больных на гемодиализе (HD) относительно их реактивности к прививке от гепатита В.

В данном исследовании результат показал, что вакцинация не привела ни к какому результату, поэтому продолжение не является целесообразным.