



Interoperabilität als Katalysator für KI

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Datenexplosion





aller Daten sind Gesundheitsdaten



dieser Daten sind ungenutzt

Szenario 2026: in einer digitalisierten Gesundheitsregion...



- Assistenzärztin der Inneren Medizin, Krankenhaus Spandau
- Mit dem Rettungswagen wird ein bewusstloser Mann eingeliefert



Welche Herausforderungen entstehen für die Ärztin?

Informationsverteilung Menge an Informationen

Zeitkritisch

Disclaimer: Fiktiver Fall, Präsentation einer Produktidee in der Entwicklungsphase

Eine Lösung der Zukunft?





2013

Ambulanz

Laborinformationssyster

Krankenhausinformationssystem

PACS

Laborwerte

2024

Stationär

Laborinformationssystem

Krankenhausinformationssyster

PACS

Arztbriefe

Interoperabilitätsplattform

Medikamente

...

Abfrage über AI Tool

Vorerkrankungen

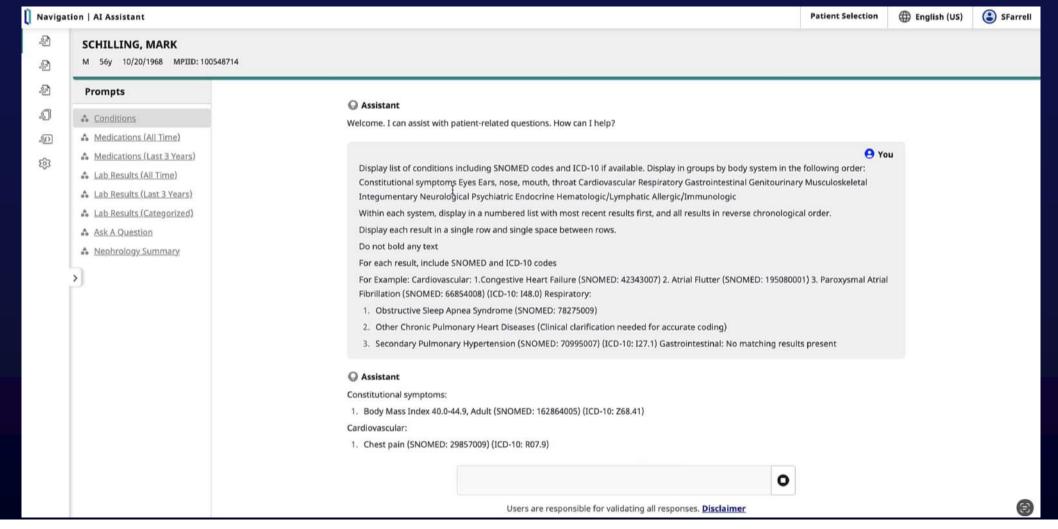
Gezielte Informationsabfrage

Medikamentenanamnese

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Überblick





Diagnosen



Assistant

Constitutional symptoms:

1. Body Mass Index 40.0-44.9, Adult (SNOMED: 162864005) (ICD-10: Z68.41)

Cardiovascular:

- 1. Chest pain (SNOMED: 29857009) (ICD-10: R07.9)
- 2. Acute myocardial infarction (SNOMED: 57054005) (ICD-10: I21.9)
- 3. Cardiomyopathy (SNOMED: 85898001) (ICD-10: I42.9)
- 4. Coronary arteriosclerosis in native artery (SNOMED: 53741008) (ICD-10: I25.10)
- 5. Congestive heart failure (SNOMED: 42343007) (ICD-10: I50.9)
- 6. Atrial flutter (SNOMED: 195080001) (ICD-10: I48.4)
- 7. Paroxysmal atrial fibrillation (SNOMED: 66854008) (ICD-10: I48.0)
- 8. Pulmonary hypertension (SNOMED: 70995007) (ICD-10: I27.0)
- 9. Secondary pulmonary hypertension (SNOMED: 70995007) (ICD-10: I27.1)

Respiratory:

- 1. Dyspnea (SNOMED: 267036007) (ICD-10: R06.00)
- 2. Obstructive sleep apnea syndrome (SNOMED: 78275009) (ICD-10: G47.33)
- 3. OTHER DYSPNEA AND RESPIRATORY ABNORMALITY (Clinical clarification needed for accurate coding)
- 4. OTHER CHRONIC PULMONARY HEART DISEASES (Clinical clarification needed for accurate coding)

Gastrointestinal: No matching results present

Genitourinary:

- 1. Acute renal failure syndrome (SNOMED: 431855005) (ICD-10: N17.9)

Type your question here

Users are responsible for validating all responses. Disclaimer

Gezielte Abfragen



You

hat der Patient Diabetes?

Assistant

Ja, der Patient hat Diabetes. In den Diagnosen ist "Type 2 diabetes mellitus without complication" als endgültige Diagnose (bei Entlassung) aufgeführt. Auch unter den Problemen ist "Diabetes mellitus (disorder)" als Problem gelistet, das am 30.09.2017 begonnen hat.

See source(s) of response

Fachspezifische Informationen



You

please answer with information that a nephrologist wants to know. Anything related to kidney disease is very important

Assistant

Based on the provided data from 04/06/2022 onwards, here are the relevant details that a nephrologist might want to know:

Diagnoses Related to Kidney Disease:

- Malignant arteriolar nephrosclerosis (Final diagnosis, discharge)
- Hypertensive chronic kidney disease (Final diagnosis, discharge)
- Chronic kidney disease stage 3 (Type: F)

Lab Orders Related to Kidney Function:

- Creatinine Levels: Elevated creatinine levels were noted, with values ranging from 1.5 to 3.2 mg/dL, which exceed the normal reference range of 0.6-1.4 mg/dL.
- Urea Nitrogen Levels: Elevated urea nitrogen levels were noted, with values ranging from 19 to 29 mg/dL, which exceed the normal
 reference range of 6-20 mg/dL.
- Glomerular Filtration Rate (GFR): GFR values were noted, ranging from 22 to 62 mL/min/1.73 m², indicating chronic kidney disease stage
 3 (moderate decreased kidney function).

Medications Related to Kidney Function:

- Spironolactone 25 MG Oral Tablet (Status: Verified)
- Bumetanide 2 MG Oral Tablet (Status: Verified)

Diagnostic Studies:

M

Ultrasound Renal with Doppler performed on 03/27/2018 to evaluate for renal artery stenosis due to accelerated hypertension.

Please note that the data

...



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Medikation



A You

Summarize this patient's medications.

- Display results in a numbered list.
- Show most recent results first, using entry date.
- Format responses as follows: Medication Name (generic in bold, then name brand when applicable), dose, route, frequency, status.
- When route description is "by oral route", instead say "by mouth".

For example:

Lisinopril (Prinivil), 20 mg by mouth once daily. Active.

- Do not include other data points unless specifically asked to do so.
- In the event there are duplicates in any of the data fields specific to a medication, indicate this by including both. For example, if the dose is 10mg in one entry and 20 mg in another entry, indicate which one is most current and which one is older.

For example:

Lisinopril (Prinivil), 40 mg by mouth once daily. Active. Changed from 20 to 40 mg on 10/22/2024.

Assistant

- 1. Rivaroxaban (Xarelto), 15 mg by mouth once daily. Status: Verified. Entry Date: 05/21/2018.
- 2. Spironolactone, 25 mg by mouth once daily. Status: Verified. Entry Date: 05/21/2018.
- 3. Bumetanide, 2 mg by mouth once daily. Status: Verified. Entry Date: 05/21/2018.
- 4. Hydralazine Hydrochloride, 50 mg by mouth twice a day. Status: Cancelled. Entry Date: 04/03/2018.
- 5. Spironolactone, 25 mg by mouth once daily. Status: Verified. Entry Date: 04/03/2018.
- Magnesium Oxide. 250 mg by mouth twice a day. Status: Verified. Entry Date: 02/20/2018.



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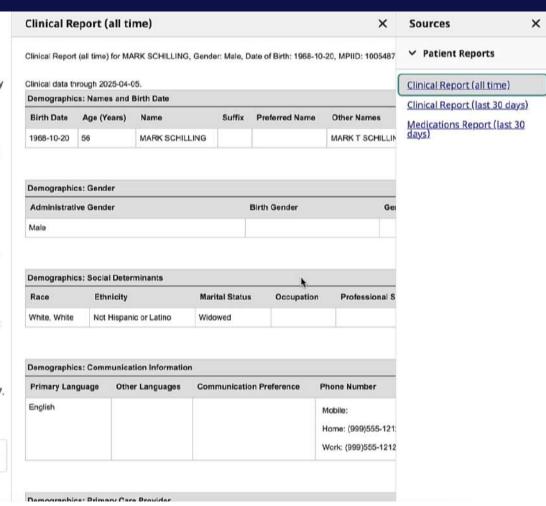
Informationsquellen



- Cefpodoxime, 100 mg by mouth daily for 10 days. Status: Discontinued. Entry Date: 04/01/2018.
- Amiodarone Hydrochloride, 200 mg by mouth once daily. Status: Discontinued. Entry Date: 08/22/2017.
- Amiodarone Hydrochloride, 200 mg by mouth twice a day. Status: Verified. Entry Date: 08/22/2017.
- Labetalol Hydrochloride, 300 mg by mouth twice a day. Status: Discontinued. Entry Date: 08/19/2017.
- Losartan Potassium, 100 mg by mouth once daily. Status: Cancelled. Entry Date: 08/19/2017.
- Bumetanide, 2 mg by mouth twice a day. Status: Discontinued. Entry Date: 08/19/2017.
- Amlodipine, 10 mg by mouth once daily. Status: Cancelled. Entry Date: 08/19/2017.
- 24 HR Metoprolol Tartrate, 100 mg by mouth twice a day. Status: Inactive. Entry Date: 08/09/2017.
- Rivaroxaban, 20 mg by mouth at bedtime. Status: Inactive. Entry Date: 07/10/2017.
- Rivaroxaban (Xarelto), 20 mg by mouth once daily. Status: Cancelled. Entry Date: 06/21/2017.
- Losartan Potassium, 100 mg by mouth once daily. Status: Active. Entry Date: 05/29/2017.
- 27. Aspirin, 81 mg by mouth once daily. Status: Discontinued. Entry Date: 05/29/2017.
- 28. **Amlodipine**, 5 mg by mouth twice a day. Status: Discontinued. Entry Date:

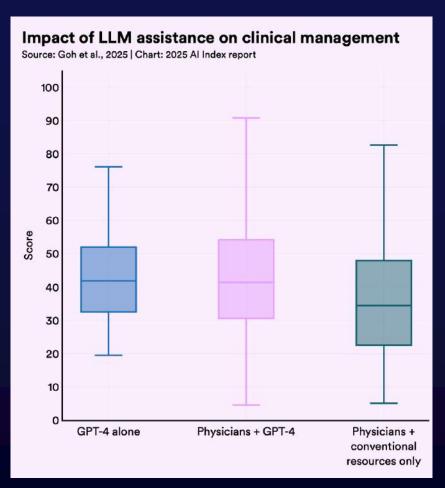
Type your question here

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Einfluss von GenAI auf klinisches Outcome





Stanford Institute for Human-Centered Artificial Intelligence (HAI). (2025). *AI Index Report 2025*. Stanford University. Heruntergeladen von https://hai.stanford.edu/ai-index/2025-ai-index-report

Erfolgsfaktoren





Medizinischer Nutzen



Technische Möglichkeit



Bedienbarkeit



Rechtliche Aspekte



Ethik



Wirtschaftlichkeit

