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Machine learning in data abstraction: A computable phenoty



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## Prediction of Sepsis in the Intensive Care Unit With ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5065680>

Sep 30, 2016 · Methods. We apply InSight, a **machine learning** classification system that uses multivariable combinations of easily obtained patient **data** (vitals, peripheral capillary oxygen saturation, Glasgow Coma Score, and age), to predict **sepsis** using the retrospective Multiparameter Intelligent Monitoring in **Intensive Care** (MIMIC)-III dataset, restricted to **intensive care unit** ...

## Assessing clinical heterogeneity in sepsis through ...

<https://academic.oup.com/jamia/advance-article-abstract/doi/10.1093/jamia/ocz106/5532815> ▾

Jul 17, 2019 · In summary, in a multicenter cohort of **sepsis** patients, we applied **machine learning** to generate **computable** EHR-based clinical signatures that quantified treatment topics and, therefore, clinical heterogeneity in early **sepsis care**.

**Author:** Fohner, Alison E

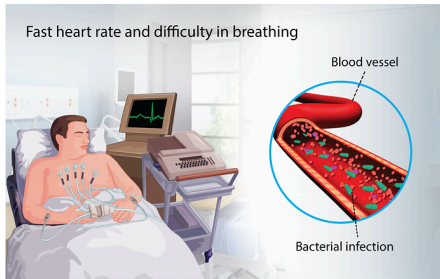
## B104. CRITICAL CARE: BIG DATA IN HEALTH CARE - PREDICTIVE ...

<https://www.atsjournals.org/doi/book/10.1164/ajrccm-conference.2018.B104>

Derivation and Validation of a **Computable Phenotype for Sepsis and Septic Shock Diagnosis in the Intensive Care Unit**. P. Dhungana, L.P. Serafim, A. Lopez Ruiz, ... Comparison of Existing **Sepsis** Criteria with a Novel **Machine Learning** Algorithm to Predict Acute Respiratory Failure or Death in Admitted Patients with Infection.

## Sepsis

Medical Condition



An infection of the blood stream resulting in a cluster of symptoms such as drop in a blood pressure, increase in heart rate and fever.



Common (More than 200,000 cases per year in US)



Transmitted through direct contact



May be preventable by vaccine



Requires lab test or imaging



Treated by medical professionals behind



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## Assessing clinical heterogeneity in sepsis through ...

<https://academic.oup.com/jamia/advance-article-abstract/doi/10.1093/jamia/ocz106/5532815> ▾

Jul 17, 2019 · In a **multicenter cohort of sepsis patients treated** with early **antibiotics**, we used **machine learning** to empirically identify EHR-based topics and develop **computable clinical signatures** to quantify the **treatment heterogeneity** present in early **sepsis**.

**Author:** Fohner, Alison E

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## Sepsis Prediction and Vital Signs Ranking in Intensive ...

[https://www.researchgate.net/publication/329736123\\_Sepsis\\_Prediction\\_and\\_Vital\\_Signs...](https://www.researchgate.net/publication/329736123_Sepsis_Prediction_and_Vital_Signs...)

**Background:** **Sepsis** is one of the leading **causes of death** in **intensive care unit patients**. Early **detection of sepsis** is vital because mortality increases as the **sepsis stage worsens**.

**Author:** Avijit Mitra, Khalid Ashraf

## Patient selection in sepsis: precision medicine using ...

[jtd.amegroups.com/article/view/31663/html](https://jtd.amegroups.com/article/view/31663/html) ▾

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**Name of Journal:** *World Journal of Critical Care Medicine*

**Manuscript NO:** 48371

**Manuscript Type:** ORIGINAL ARTICLE

### *Retrospective Cohort Study*

**Machine learning in data abstraction: A computable phenotype for sepsis and septic shock diagnosis in the intensive care unit**

Dhungana P *et al.* Computable phenotype for sepsis in ICU

### **Abstract**

#### **BACKGROUND**

With the recent change in the definition (Sepsis-3 Definition) of sepsis and septic shock,

an electronic search algorithm was designed to identify the cases for data automation





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## Prediction of Sepsis in the Intensive Care Unit With ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5065680>

Sep 30, 2016 · Principal Findings. InSight at 40% dropout frequency and at the time of **sepsis** onset ( Table 5 ) attains performance superior to MEWS at the time of **sepsis** onset ( Table 4 ). Even with a 60% dropout frequency, InSight **attains** performance that is slightly better than at a prediction time 4 hours before **sepsis** onset.

## B104. CRITICAL CARE: BIG DATA IN HEALTH CARE - ...

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## Sepsis Prediction and Vital Signs Ranking in Intensive ...

[https://www.researchgate.net/publication/329734333\\_Sepsis\\_Prediction\\_and\\_Vital\\_Signs...](https://www.researchgate.net/publication/329734333_Sepsis_Prediction_and_Vital_Signs...)

Request PDF on ResearchGate | **Sepsis** Prediction and Vital Signs Ranking in Intensive Care Unit Patients | We study multiple rule-based and **machine learning** (ML) models for **sepsis** detection. We

...

## Machine learning in critical care: state-of-the-art and a ...

<https://biomedical-engineering-online.biomedcentral.com/articles/10.1186/s12938-018-0569-2> ▾

Nov 20, 2018 · The **intensive care unit** (ICU), and by extension the whole area of critical **care**, is becoming one of the most **data**-driven clinical environments. The increasing availability of complex and heterogeneous **data** at the point of patient attention in critical **care** environments makes the development of fresh approaches to **data** analysis almost compulsory.

Cited by: 1

Author: Alfredo Vellido, Alfredo Vellido, Vicent Rib...

Publish Year: 2018

## Machine Learning for Critical Care: An ... - SpringerLink

[https://link.springer.com/chapter/10.1007/978-3-319-56148-6\\_2](https://link.springer.com/chapter/10.1007/978-3-319-56148-6_2) ▾

3 Machine Learning for the Analysis of Sepsis as a Paradigmatic Critical Care Pathology. 3.1 **Sepsis**: Some Basic Background. The official consensus definition of the **sepsis** pathology has evolved over the decades. The last consensus meeting held in 2016 provided new **definitions** for **Sepsis** and its complications [54].

Author: Alfredo Vellido, Vicent Ribas, Carles ...

Publish Year: 2017