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Retrospective Study

Artificial intelligence in dentistry: Harnessing big data to predict oral cancer survival

Man Hung, Jungweon Park, Eric S. Hon, Jerry Bounsanga, Sara Moazzami, Bianca Ruiz-Negrón, Dawei Wang

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Present and future of artificial intelligence in dentistry ...

https://www.sciencedirect.com/science/article/pii/S2212426820301093

Artificial intelligence in Dentistry *started procuring its role with emergence of* ***data*** *computation and availability of large amounts of* ***patient data****. Like for example, in radiology a definite kind of algorithm is generated which further helps in diagnosis and treatment of* ***oral pathology****/disease.*

Author: *Divya Tandon, Jyotika Rajawat* ***Publish Year:*** *2020*

Artificial Intelligence Goes Back to the ... - Dentistry Today

https://dentistrytoday.com/news/todays-dental-news/...

Mar 31, 2020 · Every day, we learn more about the ways that ***dentistry*** *connects with the body beyond* ***oral*** *health. The power of* ***artificial intelligence*** *(AI) can continue to enhance dentists' ability to make these connections, but not by doing more of the same. To get the most from AI, we need to go back to the future. No More* ***Oral****-Systemic Health*

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https://www.sciencedirect.com/science/article/pii/S2212426820301093

Oct 01, 2020 · **Artificial intelligence in Dentistry** started procuring its role with emergence of **data** computation and availability of large amounts of **patient data**. Like for example, in radiology a definite kind of algorithm is generated which further helps in **diagnosis and treatment of oral pathology/disease**.

Author: Divya Tandon, Jyotika Rajawat **Publish Year:** 2020

Machine Learning Model to Help Predict Survival Among ...

https://jamanetwork.com/journals/jamaotolaryngology/fullarticle/2732847

May 02, 2019 · Key Points. Question How can machine learning be used to further our ability to create prediction models for **survival** of **oral cancer**?. Findings In this cohort study of more than 30 000 patients, a prediction model using a variety of patients, tumors, treatment facilities, and treatment types predicted 5-year overall **survival** with an accuracy of 71%, precision of 71%, and recall of 68%.

Cited by: 10 **Author:** Omar A. Karadaghy, Matthew Shew, Jacob ...
Publish Year: 2019

New mobile app can help the severity of COVID-19 cases

https://www.news-medical.net/news/20200604/New...

Jun 04, 2020 · A new mobile app can **help clinicians determine** which **patients with the novel coronavirus** (COVID-19) are likely to have severe cases. Created by researchers at **NYU College of Dentistry**, the app uses...

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https://isdent.org/DOIx.php?id=10.5624/isd.2020.50.2.81

These programs are of 2 types: classification, in which the output variable is a category such as red or blue, or **disease** or no **disease** (i.**e.**, there are 2 possible outputs), and regression, in which the output variable is a real or continuous value (e.g., weight, price, or size).

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Present and future of artificial intelligence in dentistry ...

https://www.sciencedirect.com/science/article/pii/S2212426820301093

Oct 01, 2020 · **Artificial intelligence in Dentistry** started procuring its role with emergence of **data** computation and availability of large amounts of **patient data**. Like for example, in radiology a definite kind of algorithm is generated which further helps in **diagnosis and treatment of oral pathology/disease**.

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Dec 01, 2019 · Key Points. Question How can machine learning be used to further our ability to create prediction models for **survival** of **oral cancer**?. Findings In this cohort study of more than 30 000 patients, a prediction model using a variety of patients, tumors, treatment facilities, and treatment types predicted 5-year overall **survival** with an accuracy of 71%, precision of 71%, and recall of 68%.

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Kim et al. 10 used a deep learning program **to predict** the **survival** of **oral cancer** patients and found that the diagnostic performance of the program was superior to that of the classical statistical model. Proper fit was found between the accuracy of the training ...

Cited by: 1 **Author:** Ravleen Nagi, Konidena Aravinda, N Rak...
Publish Year: 2020

Leveraging Advances in Artificial Intelligence to Improve ...

https://www.mdpi.com/2072-6694/12/5/1149/htm

In recent years, research on **artificial intelligence** (AI) in medicine has seen great advances, especially with regards to the detection of diseases [1,2]. While definitions of what exactly constitutes AI vary, most definitions mention computer-based systems solving tasks that would normally require "natural", especially human, **intelligence** .