open-ortho: simplification of orthodontic computing

open-ortho is the name of a project. **The project's goal is to make the computer life of orthodontic providers easier.**

> **Limited Content**
>
> What is available on this web site is only a small part of what we do. Unfortunately, due to agreements with some of the organizations we work with, we are not able to share all of our work. Please contact us at info@open-ortho.org to get an account.

There's a lot of great software and hardware to do a variety of different tasks in the orthodontic practice. Yet, more often than not, these systems don't know how to talk to one another. Orthodontists and other orthodontic providers struggle unnecessarily to move their data around between different software applications.

Doctors, vendors and engineers are working together at PANIO to allow orthodontic systems to seamlessly communicate with each other:

- We are interacting with various organizations, like the American Dental Association (ADA), DICOM , Health Level 7 (HL7), American Association of Orthodontists (AAO), Integrating the Healthcare Enterprise (IHE), JCEG Joint Cephalometrics Experts Group.
- We are defining, correcting, documenting and implementing existing informatics standards, to make them work for the orthodontic community.
- We want the existence of an approved way of communicating orthodontic data. Something that developers can use to make their software or hardware work with software and hardware of other developers.

ADA releases fact sheet on interoperability, information blocking rule
Toni Magni tops posted on Nov 19, 2021
The ADA released a fact sheet to help dentists understand provisions of the 21st Century Cares Act

ADA: Interoperability the wave of the future
Toni Magni tops posted on Oct 04, 2020

ONC partners with IHE to advance interoperability standards
Toni Magni tops posted on Oct 25, 2019
See original article here: https://www.healthcareitnews.com/news/onc-partners-ihe-advance-interoperability-standards https://www.healthcareitnews.com/news/onc-partners-ihe-advance-interoperability-standards In case link no longer works, here is a downloaded version:

Adding a Blue Button
Toni Magni tops posted on Aug 02, 2019
So there is this Blue Button initiative, which pushes software vendors to add a blue button (https://www.healthit.gov/topic/health-it-initiatives/blue-button https://www.healthit.gov/topic/health-it-initiatives/blue-button) on the software, indicating that the patient or doctor can download the medical record for a patient. It is now being proposed for implementation Medicare patients.…

- cms
- medicare
- interoperability

CMS Seeks Public Input on Patients over Paperwork Initiative
Toni Magni tops posted on Aug 02, 2019
The idea is to Further Reduce Administrative, Regulatory Burden to Lower Healthcare Costs. This is a direct move towards reducing clinician burnout from too much useless data overhead. CMS is Centers for Medicare & Medicaid Services. From wikipedia: The Centers for Medicare & Medicaid Services (CMS), previously known as the Health Care Financing Administration (HCFA), is a federal agency within the United States Department of Health and Human Services https://en.wikipedia.…

- burnout

Why Doctors Hate Their Computers
Toni Magni tops posted on Nov 14, 2018
A good article by Atul Gawande the author of The Checklist Manifesto http://atulgawande.com/book/the-checklist-manifesto/ in the New Yorker, which also touches interoperability: https://www.newyorker.com/magazine/2018/11/12/why-doctors-hate-their-computers https://www.newyorker.com/magazine/2018/11/12/why-doctors-hate-their-computers

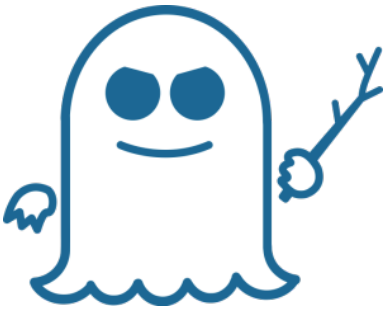
Blockchains Start to Creep into the Dental World
Toni Magni posted on Jan 05, 2018

DENTACOIN

Dentacoin is the first Blockchain based informatics system to make its way into the dental community. Is it actually useful?

- blockchain
- dental

Meltdown and Spectre and Medical Data
Toni Magni posted on Jan 05, 2018



Meltdown and Sepctre are a codename for various vulnerabilities of basically every Intel processor, which allows a malicious attacker to gain unrestricted access to the computer's memory, so every copy/paste command, every keyboard stroke, etc.
Everyone is concerned about passwords, and medical data might be even worse!

HL7 Orthodontic attachments document
Carla Evans posted on Dec 15, 2017

Blockchain as Our Future
Toni Magni posted on May 08, 2017

WGS_Blo...Web.pdf

In case you still have not understood how much of a game changing technology blockchains can be, this article from the World Government Summit gives a pretty good picture.

why is this article cool?

It's super cool, because humanity now has a way to solve the big messy global transition from paper to electronics in an interoperable, functional and scalable way! And this article will give you example of exactly how this can become true and how game changing it will be from a technical, medical and governmental perspective.

- blockchain

Who Owns a Patient's Clinical Data?
Toni Magni posted on Nov 14, 2016
I've personally struggled with this concept for a long time. When i thought about it, the options i would come up seemed to be only 3:

1. Vendors: those who develop the systems that providers use to collect and store clinical data retrieved from patients.
2. Providers: the doctors who provide medical care also by collecting and storing patient's data in systems developed by the vendors.
3. Patients.

ONC and how to measure "widespread interoperability"
Carla Evans posted on May 02, 2016

The Office of the National Coordinator for Health Information Technology (ONC) has published a Request for Information (RFI) aimed at establishing the correct metrics to use when trying to assess whether the goal of widespread interoperability of electronic health care records has been met.

why is this cool?

It's exciting, because this means the government is serious about actual real interoperability: they want to define a way to measure how well medical software can communicate with each other.

- onc

AAO is now hosting this wiki. Thank you AAO.
Toni Magni posted on Apr 11, 2016

It's official: the AAO is now sponsoring the PANIO effort

- aao
- contributions

HPD: the Healthcare Provider Directory
Toni Magni posted on Dec 30, 2015
The goal is to have a standard for this directory, such that every group, individual, organization or institution who is maintaining one, could have the ability to share it, and make a more comprehensive and up to date version available.

- ihe

Dr. John Grubb steps down
Toni Magni posted on Nov 05, 2015
Dr. John Grubb has been of great help and an invaluable resource. He has most recently followed up to make work item ACT-6 A Digital Standard for Sharing Orthodontic Photographs progress steadily. We really hope he will still find time to volunteer work with us. His feedback is greatly appreciated and he will always be welcome to join us, physically or remotely. Thanks John!…