

eHealth and Knowledge Management

Avoiding Digital Chaos



Prognition Corp. History

- Founded in 2006 by Dr. Jay Winburn
- Focus on Knowledge Management
- Joined BCC (Biomedical Commercial Canada) Incubator in June 2007
- First Commercial Application Launch Q1/09
- NRC/IRAP support



Agenda

1. eHealth
2. eHealth + Knowledge Management
3. Applications and Examples
4. Questions



Why eHealth?

- **Old technology – Archaic**
- **Unstructured information**
- **Duplication of effort, entry, and information**
- **Costly \$\$\$**



Move to eHealth

- Information Accessible Anywhere, Anytime
- Electronic Health Record (EHR)
- Goals:
 - Share information across disciplines
 - Speed the delivery of each stage of treatment



Benefits to eHealth? Fact or Fiction

Risks: How will this be implemented?

- From paper chaos to digital chaos
 - 500 paper files vs. 500 digital files



Structured Information

- Information needs structure
 - Easily Accessible
 - Easily Shared
 - Easily Filtered



Leveraging Information

- Using the same information, different providers use knowledge to provide service to a client
 - Administrators
 - Insurance companies
 - Pharmacists (e-Rx)
 - Physiotherapists



EXAMPLE : Rotator Cuff Tear

- Doctor says: “You need surgery”
- Insurance says: “CHA-CHING! \$\$\$”
- Physiotherapist says: “Rehab Plan!”
- Pharmacist says: “You need pill XYZ”

Using eHealth data, we can streamline services
from many different providers using

Knowledge management



What is Knowledge Management?

- A way to represent professional experience
- Applying professional experience to information / situations
- A paradigm of how data can be processed in order to extract meaningful information

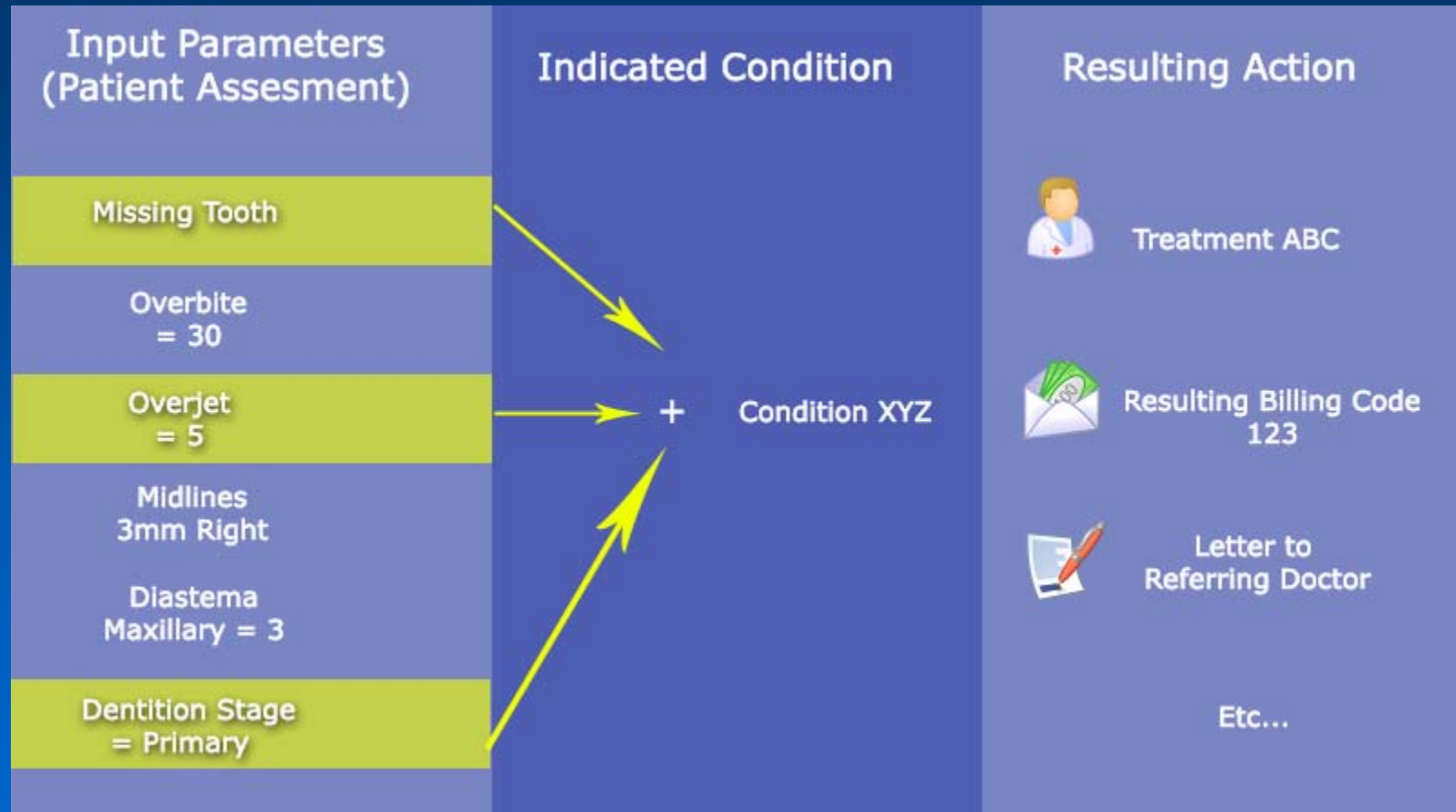


Key Factors

1. Quality Knowledge
2. Quality representation of Knowledge
3. Easy retrieval and application of Knowledge



Orthodontics



How?

- Store expert knowledge via connections



- Ruby on Rails

- MySQL



Physiotherapy

LIVE DEMO!



Why does this work?

ORTHO vs PHYSIO

- Commonality between both industries
 - Assess → Analyze → Diagnose
 - Logic used to come to conclusions
-
- Many industries share the same general process



Benefits of Knowledge Management

- Improved workflow
- Better treatment
- Consistent delivery of treatment
- Less room for error



Where do we go from here?

eHealth on it's own may not be enough

eHealth can largely benefit from
Knowledge Management



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