



 upmedic

Make your medical data meaningful



We have too much medical data for humans to process

There is a need for **intelligent software** to make the inadequately low number of medical practitioners immensely **productive** and **enable computers to automatically analyze medical documentation**

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Using **upmedic** radiologists create high-quality structured documentation effortlessly and **3x faster**. Generated reports can be analyzed automatically using **machine learning algorithms** - each phrase is a separable source of information about patient's body.

By the end of 2021 **upmedic** system will be available for next medical specializations.

- ✓ Automated integration of unstructured documentation using **natural language processing (NLP)**
- ✓ **HIS/RIS integration** using typical exchange protocols, e.g. HL7, JSON, XML
- ✓ **Reports distributed in form of pdf, txt files**
- ✓ Available on premises and in the cloud
- ✓ Adapted to every modern device and operating system

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Templates used as
to-do lists

AI-driven suggestion
system

The screenshot displays the upmedic interface for a patient named Jan Nowak. The interface is divided into several sections:

- Left Panel:** A sidebar with a search bar and a "Select category filter" section. It lists various imaging disciplines (MR, WIR, VIR, CT, USG, TK, RTG, MRI) and templates. A filter for "N2b (Metastases in =7 regional lymph nodes)" is selected and highlighted with a red box.
- Top Bar:** Includes the user name "Pawel Paczusi" and a "Generate Report" button.
- Main Content Area:** Titled "Magnetic Resonance Imaging", it contains several paragraphs of text. The first two paragraphs are highlighted in green, and the third is highlighted in pink. The text includes: "Anterior Circulation: The intracranial ICA segments appear normal," "Posterior Circulation: The bilateral MCA M1 and M2 segments appear normal," "Vasculature: There is a normal anatomic configuration of the aortic arch," and "Imaging N-stage of tumor: N2b (Metastases in =7 regional lymph nodes),".
- Right Panel:** Titled "Survey answers", it lists several questions with their corresponding answer values, such as "Question Previous shoulder examinations (none, ultrasonography, Radiography, CT, MRI) Answer value: usg" and "Question Do you have any shoulder injury in the past? Answer value: False".

Standardized
terminology

Pre-examination
survey answers

High
quality
report

Manual creator and templates

Intelligent decision trees

Survey's name: **Before shoulder examination**

List of questions

- Previous shoulder examinations (none, ultrasonography, Radiography, CT, MRI)
- **Did you have any shoulder injury in the past?**
- Do you feel any pain?
- Under what circumstances does the pain appear?
- Can you lay on the aching side?
- Does the pain interrupt sleep?
- Did you have an orthopedic consultation before examination?
- Did you have any shoulder surgeries?
- Do you do sport?

Question tree

Finish

Did you have any shoulder injury in the past?

When did shoulder injury occur?

Do you have any troubles during sleep?

Standardized terminology

Questions system providing the most accurate answer

Pre- and post-examination survey

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Structured radiological reports



Standard and complex cases



Pre- and post-examination surveys



Access to medical history



Speech to text



Standardized terminology
-SNOMED CT



Machine learning ready



Teleradiological service



Market proof



460 templates in 16 languages

Well-structured information

Standardized report text

High quality report

95% less typing

3x faster



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