SOLUTION BRIEF

Elevate cancer care with the Watson Oncology Suite

The need

Cancer practices need to stay competitive by providing high quality, cost-effective care to their communities, but oncologists are challenged by the proliferation of literature, greater number of treatment options, and increasing complexity in pathways and adherence expectations. They need a way to stay up-to-date.

The solution

The IBM Watson® Oncology Suite supports clinicians and patients throughout the cancer journey, giving evidence-based decision support at the moment it’s needed. The AI-powered solutions provide quick and easy access to the latest guidelines, as well as the most relevant literature, treatment options and clinical trials.

Optimize workflow with the power of AI

Artificial intelligence (AI) has the power to transform healthcare by quickly evaluating unstructured or previously inaccessible data in medical literature or patient records. With the ability to read over 200 million pages in three seconds, IBM Watson® for Oncology is learning the language of oncology and detecting patterns that humans may not have seen.

The Watson Oncology Suite of solutions integrate with existing clinical workflow and care platforms allowing users to easily surface patient-relevant attributes and information.

Highlights:
- Leverage AI to harness insights from cancer guidelines, literature and patient records
- Integrate with existing workflows
- Can help make better-informed, evidence-based treatment decisions
- Can help improve patient access to trials
Access comprehensive clinical decision support

Watson for Oncology provides access to three levels of information:

**Broad & deep knowledge**
Trained by the experts at Memorial Sloan Kettering, a world-renowned cancer center. It currently supports 13 cancer types, with deep (3rd line or beyond) metastatic support for 10 cancers.

**Watson for Oncology currently supports 13 cancer types:**

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<tr>
<th>Breast</th>
<th>Endometrial</th>
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<td>Cervical</td>
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**Clinical guidelines**
Provides quick access to evidence-based clinical practice guidelines around cancer care.

**Literature insights**
Has the ability to read through clinical publications and provide summary and outputs from a data corpus sourcing over 29 million abstracts. Abstracts are ranked and sorted by publication quality and relevance.

**Get personalized treatment options**
Watson for Oncology generates ranked, evidence-based treatment options. It enables a more personalized cancer care journey with:
- Dynamic patient summarization
- Dosing, supportive care, drug information
- Oncology-specific natural language processing to ingest unstructured clinical notes
- Treatment timeline, comparison, plan and printout
- Literature insights relevant to the patient

Watson for Oncology arms the oncologist with evidence-based treatment options along with personalized supplemental information allowing physicians to apply their own expertise to identify the most appropriate option for their patients. The treatment options are backed by peer-reviewed research and transparency, helping the clinician and patient to make the best decisions for their care.

**Recruit for clinical trials**
IBM Watson® for Clinical Trial Matching matches patients to trials and trials to patients based on the patient attributes from the electronic medical record and the trial attributes from clinicaltrials.gov.

The solution uses AI to equip oncologists with relevant trial options for each patient, as well as transparency into inclusion and exclusion criteria. The improvement in screening efficiency and patient recruitment (versus manual screening) can help meet clinical trial enrollment targets and increase opportunities to offer patients the option of a clinical trial for treatment.

**Why Watson Health**
IBM® Watson Health™ was created to help solve some of the world’s most pressing health challenges through data, analytics and AI. By combining human experts with augmented intelligence, Watson Health helps health professionals and researchers around the world translate data and knowledge into insights to make more-informed decisions about care for their patients.

**For more information**
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About IBM Watson Health

Each day, professionals throughout the health ecosystem make powerful progress toward a healthier future. At IBM Watson Health, we help them remove obstacles, optimize efforts and reveal new insights to support the people they serve. Working across the landscape, from payers and providers to governments and life sciences, we bring together deep health expertise; proven innovation; and the power of artificial intelligence to enable our customers to uncover, connect and act — as they work to solve health challenges for people everywhere.