

Pancreatic Cancer Diagnostics Using Artificial Intelligence: Market Shares, Strategies, and Forecasts, 2017 to 2023

Table of Contents

Pancreatic Cancer Diagnostics Using Artificial Intelligence: Executive Summary

The study is designed to give a comprehensive overview of the Pancreatic Cancer Diagnostics Cancer Immunotherapy Artificial Intelligence market segment. Research represents a selection from the mountains of data available of the most relevant and cogent market materials, with selections made by the most senior analysts. Commentary on every aspect of the market from independent analysts creates an independent perspective in the evaluation of the market. In this manner the study presents a comprehensive overview of what is going on in this market, assisting managers with designing market strategies likely to succeed.

Abstract: Approaching Pancreatic Cancer with Artificial Intelligence Diagnostics Vastly Improves Outcomes	1
Artificial Intelligence (AI) Cancer Diagnostics Executive Summary	8
Artificial Intelligence (AI) Cancer Diagnostics Market Driving Forces	8
Artificial Intelligence Cancer Diagnostics Market Shares:	9
Artificial Intelligence Cancer Diagnosis Market Forecasts:	10
1. Artificial Intelligence Cancer Diagnostics Market Description and Market Dynamics:	12
1.1 Artificial Intelligence Very Big Breakthrough in Cancer Diagnostics	12
1.2 Ability of AI Solutions To Discover Schemas in Large Databases	13
2. Artificial Intelligence (AI) Cancer Diagnostics Market Driving Forces	15
2.1 Artificial Intelligence (AI) Cancer Diagnostics Market Driving Forces	15
2.2 Artificial Intelligence Cancer Diagnostics Market Shares:	17

List of Figures

2.3	Artificial Intelligence for Cancer Diagnostics Market Forecasts:	18
2.4	Cancer Statistics	25
2.5	Hospital Artificial Intelligence (AI) Challenges	28
2.6	Hospital Artificial Intelligence Software Prices:	33
2.7	Hospital Artificial Intelligence Regional Segments:	34
3.	Hospital Artificial Intelligence Products:	36
3.1	Partners HealthCare, IBM, and GE Healthcare	36
3.2	IBM Watson	38
3.2.1	IBM Genomic And Immunotherapy Supercomputing for Patient Management	41
3.2.2	Mayo Clinic and IBM Watson	42
3.3	Google’s AI Subsidiary DeepMind is Partnering With Another UK hospital	44
3.4	Prognos	44
4.	Hospital Artificial Intelligence Research and Technology:	45
4.1	Research at Google	45
4.2	IBM AI Research	46
4.2.1	Neural Representation of Sketch Drawings	47
4.3	Google and Nvidia Artificial Intelligence	48
5.	Hospital Artificial Intelligence Companies	49
5.1	Alphabet / Google	49
5.1.1	Google Artificial Intelligence Subsidiary DeepMind Healthcare Initiative	49
5.2	General Electric (GE)	50
5.2.1	General Electric Revenue by Segment	50
5.2.2	GE Healthcare and Massachusetts General Artificial Intelligence	51
5.3	IBM	54
5.3.1	IBM Watson Genomics by Quest Diagnostics	55

List of Figures

5.3.2	IBM Watson Healthcare Revenue	57
5.3.3	IBM Watson Solutions Software Healthcare Revenue	57
5.4	Prognos	58
5.4.1	Coding Healthcare Datasets Full Of Unstructured Text	61
5.5	Quest Diagnostics	65
5.5.1	IBM Personalized Healthcare: Watson Genomics from Quest	
	Diagnostics	66
5.5.2	Quest Diagnostics Revenue	67
5.6	Safeguard Scientifics Announces Second Quarter 2017 Financial Results	67
5.6.1	Safeguard Scientifics Prognos DxCloud	68
	WinterGreen Research,	69
	WinterGreen Research Methodology	70
	WinterGreen Research Process	71
	Market Research Study	72
	WinterGreen Research Global Market Intelligence Company	73
	Report Description: Hospital Artificial Intelligence Models Matter	73

List of Tables and Figures

Abstract: Approaching Pancreatic Cancer with Artificial Intelligence Diagnostics Vastly Improves Outcomes	1
Figure 1. Artificial Intelligence Cancer Diagnostics Market Shares, Software, Dollars, Worldwide, 2016	9
Figure 2. Artificial Intelligence for Cancer Diagnosis Market Shipments Forecasts Dollars, Worldwide, 2017-2023	11
Figure 3. Cancer Artificial Intelligence Components	14
Figure 4. Hospital Artificial Intelligence Predictive Functions	14
Figure 5. Artificial Intelligence Cancer Diagnostics (AI) Market Driving Forces	15

List of Figures

Figure 6. Healthcare Safety Features Implemented by Artificial Intelligence (AI)	16
Figure 7. Artificial Intelligence Cancer Diagnostics Market Shares, Software, Dollars, Worldwide, 2016	17
Figure 8. Artificial Intelligence for Cancer Diagnostics Market Shares, Dollars, Worldwide, 2016	18
Figure 9. Artificial Intelligence for Cancer Diagnostics Market Shipments Forecasts Dollars, Worldwide, 2017-2023	20
Figure 10. Artificial Intelligence for Cancer Diagnostics Market Shipments Forecasts Dollars, Worldwide, 2017-2023	21
Figure 11. AI Replacements for Supervised Manual Techniques For Diagnosis And Care Delivery.	22
Figure 12. Hospital Artificial Intelligence Long-Term Goal	23
Figure 13. Hospital Artificial intelligence Action Functions	24
Figure 14. Pancreatic Cancer Survival Rate	27
Figure 15. Hospital Artificial Intelligence (AI) Challenges	29
Figure 16. Hospital Artificial Intelligence (AI) Human Factors	29
Figure 17. Hospital Artificial Intelligence Software, US and Worldwide, Shipments Forecast, Dollars, Worldwide, 2017-2019	32
Figure 18. Hospital Artificial Intelligence Regional Market Segments, 2016	34
Figure 19. Hospital Artificial Intelligence Regional Market Segments, 2016	35
Figure 20. Truven Health Analytics Products	40
Figure 21. IBM TrueNorth Neurosynaptic System	46
Figure 22. AI Makes Words Manageable	47
Figure 23. GE Healthcare and Massachusetts General Artificial Intelligence Healthcare Initiative Workflow	52
Figure 24. GE Healthcare and Massachusetts General Artificial Intelligence Healthcare Initiative Center of Excellence	53
Figure 25. Prognos Investors	59
Figure 26. Percent Patients with Abnormally High Test 5 years Prior to First Pancreatic Cancer Diagnosis Stratified by Test and by Year	63
Figure 27. Prognos Pancreatic Cancer Diagnosis Test Result Variance	64
Figure 28. Watson Genomics from Quest Diagnostics Features:	66