Driving innovation in the use of social media and machine learning

OEvidera **PPD**[•]

A selection of applications across the development lifecycle

2014	<text><text><text><text><text><text><text></text></text></text></text></text></text></text>
2015 0	Used machine learning to identify under-recorded patients with post-stroke spasticity in England
2016 0	Compared qualitative interviews versus social media for concept elicitation in post-surgical Staphylococcus aureus infections
2017 •	EVALUATED RISKS ASSOCIATED WITH ANTIRETROVIRAL TREATMENT FOR HIV USING QUALITATIVE ANALYSIS OF SOCIAL MEDIA DATA -> Compared machine learning versus traditional statistical approaches for the ANALYSIS OF



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2018

FDA encourages researchers to explore patient perspective in research \rightarrow

HIGHLIGHTED UNMET NEEDS IN PATIENTS WITH AML AND MDS INELIGIBLE FOR CHEMOTHERAPY



FDΑ

Conducted first-ever study to understand patient and clinician perceptions of cell and gene therapy in oncology





Uncovered patient perceptions and motivations for clinical trial participation



USING SOCIAL MEDIA...

PRESENTED KEY STEPS FOR SUCCESSFUL IMPLEMENTATION OF **MACHINE LEARNING IN BIOPHARMA** APPLICATIONS AT ADVANCED PHARMA ANALYTICS, LONDON

2019

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Discussed how linking social media to EMRs can help capture the patient voice in the absence of PROs \rightarrow



NICE

NICE provides first scientific advice on patient preference study design that includes social media listening for a deeper understanding of patient perspectives, needs, and attitudes ightarrow



Developed machine learning and NLP methodology for EXTRACTING TREATMENT PATTERNS FROM SOCIAL MEDIA IN KIDNEY CANCER →

Used social media to uncover treatment experiences and decisions in patients with acute myeloid leukemia or myelodysplastic syndrome



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