A quick overview of the latest guidance and evidence on current issues such as smoking, sexual health, health inequalities, mental health, obesity, substance abuse, women’s health – in fact anything that you ask for!

If you have a topic suggestion, please email it to Rachel Posaner. Previous searches can be found at: http://bit.ly/1H6QQQk

Parliament UK
UK can lead the way on ethical AI, says Lords Committee (= Lords Select Committee on AI, April 2018)

Department of Health and Social Care
Review announced into training NHS staff to use AI and robotics (April 2018)

NHS Digital
NHS Digital comment on Reform report into Artificial Intelligence in health care (Jan. 2018)

Royal College of Radiologists
Artificial intelligence: the impact on clinical radiology and clinical oncology

Nuffield Council on Bioethics
Artificial intelligence (AI) in healthcare and research (May 2018)
The big ethical questions for artificial intelligence (AI)

NHS Evidence
Smartificial Intelligence
Doctors ‘vastly outperform’ symptom checker apps

HMIC
Predicting GPs’ engagement with artificial intelligence.
Sola, Davide. Scarso, Giovanni. Quaglia, Roberto
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Reducing patient mortality, length of stay and readmissions through machine learning-based sepsis prediction in the emergency department, intensive care unit and hospital floor units.
McCoy, Andrea. Das, Ritankar

BMJ Open 2017; 7 (9): (15 September 2017)

Machine learning and prediction in medicine: beyond the peak of inflated expectations.
Chen, Jonathan H.. Asch, Steven M.
The computer will assess you now.  
Armstrong, Stephen  

Scopus

An investigation into the efficacy of deep learning tools for big data analysis in health care  
Priyadarshini, R., Barik, R.K., Panigrahi, C., Dubey, H., Mishra, B.K.  

Taking the fiction out of science fiction: (Self-aware) robots and what they mean for society, retailers and marketers  
Gonzalez-Jimenez, H.  
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Artificial intelligence, machine learning and the evolution of healthcare: A bright future or cause for concern?  
Jones, L.D., Golan, D., Hanna, S.A., Ramachandran, M.  
2018, Bone and Joint Research, 7(3), pp. 223-225

Google DeepMind and healthcare in an age of algorithms  
Powles, J., Hodson, H.  
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Artificial intelligence based smart diagnosis of Alzheimer's disease and mild cognitive impairment  
Farooq, A., Anwar, S., Awais, M., Alnowami, M.  
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Will artificial intelligence contribute to overuse in healthcare?  
Komorowski, M., Celi, L.A.  
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A pilot study of breast cancer patients: Can machine learning predict healthcare professionals' responses to patient emotions?  
Barracliffe, L., Arandjelović, O., Humphris, G.  

Big data need big theory too  
Coveney, P.V., Dougherty, E.R., Highfeld, R.R.  
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University College London Hospitals NHS Foundation Trust (UCLH)

Revolutionising healthcare with AI and data science: UCLH and The Alan Turing Institute announces breakthrough partnership today (May 2018)

A Research Hospital: implementing research innovation for healthcare improvement (May 2018)

Royal Free London NHS Foundation Trust

Our work with DeepMind

Moorfields Eye Hospital NHS Foundation Trust

DeepMind Health research partnership

Alan Turing Institute

The Alan Turing Institute defines eight research challenges to drive its data science and artificial intelligence research (May 2018)

Turing reaction to Theresa May’s speech on revolutionising the health service by deploying AI in the NHS (May 2018)

Revolutionising healthcare with AI and data science: UCLH and The Alan Turing Institute announce breakthrough partnership (May 2018)

Chris Holmes appointed to lead research in health at The Alan Turing Institute in partnership with Health Data Research UK (May 2018)

Artificial intelligence for data analytics

Developing an ethical framework for explaining algorithmic decision-making

Turing responds to Science and Technology Committee report on algorithms in decision-making (includes link to report)

DeepMind Health

DeepMind and Moorfields Eye Hospital NHS Foundation Trust

HSJ

NHS England will invest in artificial intelligence, says Stevens (Sept. 2017)

The Conversation

DeepMind: can we ever trust a machine to diagnose cancer? (Dec. 2017)

Growing role of artificial intelligence in our lives is 'too important to leave to men' (Aug. 2017)

How artificial intelligence could provide some respite for the NHS (Jan. 2017)

Blogs and other news

How Theresa May’s plan for an AI-powered NHS could go very wrong (New Scientist, May 2018)

Artificial Intelligence and the NHS (April 2018, Channel 4 News)

Margaret McCartney: AI in medicine must be rigorously tested (BMJ, April 2018)

Artificial intelligence in health care: enabling informed care (Lancet, March 2018)

Patients’ illnesses could soon be diagnosed by AI, NHS leaders say (Guardian, Sept. 2017)

Artificial intelligence in healthcare: past, present and future (Stroke and Vascular Neurology, June 2017)

Data sharing

How AI driven by Google’s DeepMind could help save lives and the NHS – as long as we share our medical data (iNews, June 2018)

NHS asked to outline data sharing plans for AI by end of 2018 (Digital Health Intelligence, April 2018)

UK can be ‘world leader in AI’ if NHS data can be tapped (Digital Health Intelligence, April 2018)

Royal Free and Google DeepMind trial did not comply with DPA (Digital Health Intelligence, July 2017)

Google DeepMind 1.6m patient record deal ‘inappropriate’ (Guardian, May 2017)

Applications

10 Promising AI Applications in Health Care (HBR, May 2018)

To fix healthcare let AI do the dull, routine work
DeepMind and University College London Hospitals NHS Foundation Trust

DeepMind Health and de-personalised research data

A milestone for DeepMind Health and Streams

(Please note: the text is too small to be legible.)

London hospitals to replace doctors and nurses with AI for some tasks (Guardian, May 2018; see also Guardian editorial here)


AI early diagnosis could save heart and cancer patients (BBC, Jan. 2018)

AI could have ‘immense’ benefits for NHS, says tech committee chair (Independent, Jan. 2018)

Artificial intelligence in health insurance: Smart claims management with self-learning software (McKinsey, Sept. 2017)

Patient involvement
AI in healthcare? Ask the patient (Pharma Times, April 2018)

Resources
Investment in artificial intelligence is essential for our future health (Independent, April 2018)

Is the NHS ready for artificial intelligence? (Spectator, March 2018)

Google DeepMind warns that the NHS lacks the resources to make the most of AI (New Statesman, Dec. 2017)