

REGULATION OF MEDICAL TECHNOLOGY

Welcome to the Primer series. Here you will find the weekly Primer articles and some curated resources to support teaching and learning.

In this issue, let's learn about recent developments in medical technology, and consider ethical and regulatory issues that surround its use.



Scan or click on the QR codes to access the primers.

In this issue, we will:

- deepen our understanding of medical technology;
- examine the opportunities and challenges brought about by medical technology; and
- consider the importance of regulating medical technology.



BACKGROUND

Scan or click on the QR codes below to access the links.



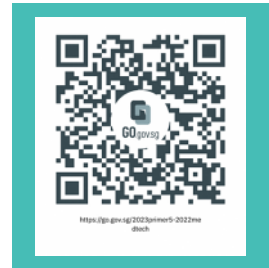
Medical Technology can be defined as the technologies that diagnose, treat and/or improve a person's health and wellbeing, encompassing both low- and high-risk medical devices – products that can be as varied from tongue depressors, surgical gloves and medical thermometers to insulin pumps, pacemakers and in vitro diagnostics – and used to save the lives of patients.

Source: The Asia Pacific Medical Technology Association (APACMed)



Innovative Medical Technologies

Medical technology has become more advanced than ever before. These were the top 10 medical technologies in 2022.



Impact of Artificial Intelligence (AI) on Healthcare and Medicine

Watch this video to find out how AI is set to have an impact on people's health.

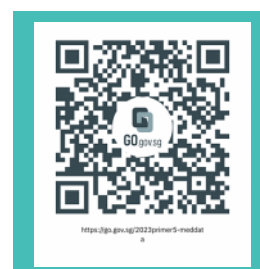


Read this article to learn about ethical and legal issues surrounding the use of AI in medicine.



Implications on Personal Data

Watch this video to understand the implications on our personal data as technology revolutionises healthcare.



Scan or click on the QR codes below to access the links.

As you read these articles, consider the following:

- Given recent exponential advances in medical technology, to what extent should it be regulated?
- How far do you agree with the perspectives and how does each writer's view support or challenge the others?

The Importance of Securing Sensitive Data

Singh posits that it is important to establish rules and regulations to secure sensitive data as the world advances towards digitalised health services.



<https://go.gov.sg/2022/primers-5-singh>

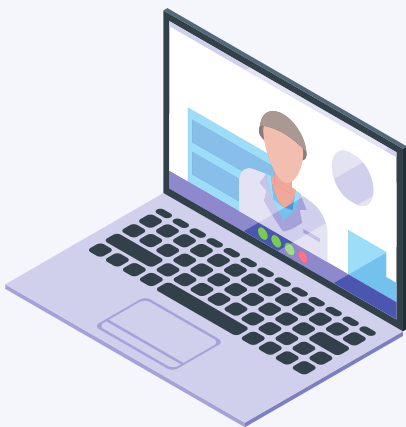


The Urgent Need to Protect Health Privacy

Cocco calls for action to close gaps in privacy protection in an increasingly digitised world.



<https://go.gov.sg/2022/primers-5-cocco>



Challenge of Regulating AI in Healthcare

Detting argues that regulators need to reimagine regulations to unlock the full potential of AI in healthcare, while fully protecting the rights of the individual.



<https://go.gov.sg/2022/primers-5-detting>



Ethical Issues in the Use of Big Data and AI

Heng is of the view that there is a need for deeper discussions on ethical issues in the use of big data and AI for IVF treatment.



<https://go.gov.sg/2022/primers-5-heng>



EXTEND YOUR UNDERSTANDING: RESOURCES FOR BLENDED LEARNING

Scan or click on these QR codes
for more information.

Watch this video on what experts have to say about the possibilities of medical technology in 2023.



Listen to this podcast on how AI can help us improve our health and change the future of healthcare.



What are the risks of self-diagnosis and searching symptoms online? Read this article to learn about these risks and the rise of 'Dr Google'.



ST-MOE NEWS OUTREACH PROGRAMME 2023 PRIMER TOPICS

20 Mar	<u>Resource Scarcity, Climate Considerations and Implications on Geopolitics</u>
27 Mar	<u>Budget 2023</u>
3 Apr	<u>Wildlife Conservation</u>
10 Apr	<u>The Value of International Sporting Competitions Today</u>
17 Apr	<u>Regulation of Medical Technology</u>
8 May	Fame and Celebrity Culture
15 May	The Search for Authenticity in an Interconnected World
22 May	Strengthening Intergenerational Bonds
17 Jul	Words Matter: Language and Power
24 Jul	The Place of Museums Today
31 Jul	The Sharing Economy
7 Aug	Doing Good

WEEK 4 READING CHAMPS!

THAM KAI HAN	ASRJC	OOI JIAN HUI	NUS High
WONG JUN SONG	ACJC	KARA GOH	RI
SYLVESTER KOH	ACS(I)	HANA CHUA QI EN	RVHS
JACHOLAS GAY	CJC	SOH ENXI, DESTINY	SAJC
LEE YIN TUNG	DHS	XYLIA LIM YI JIE	SOTA
RYAN SHEAH MINGZHOU	EJC	ELKAN RESHAWN OH	SSP
ONG ZHI HAN JORDAN	HCI	LAURA SOO JO ANN	SJI
NG KAI BOON	JPJC	JAEDON GOH ZHI KAI	TMJC
OH JAY MENG	MI	VISHAL ARUNKUMAR	TJC
TAY MENG YE (ZHENG MINGYI)	NYJC	CHOO RAE YAN	VJC
LIN JIAQI	NJC	CLIVE CHUA KAI AN	YIJC

ACCESS TO PREMIUM ARTICLES

Scan or click on
the QR code for
step-by-step
instructions on
how to log in to
ST Online.



<https://sp.gov.sg/2023-stonline-log-in-guide>



READING CAMPAIGN

Organised in conjunction with the Primer season
(over 12 weeks from 20 March to 7 August)

PRELIMINARY ROUNDS

- One winner per school per week*
- Winners are determined based on the total number of articles read in each week.
- Each winner will receive a prize from SPH Media Limited.

*Past winners will not be eligible in the following weeks but will qualify for the final round.

FINAL ROUND

- The top three students who read the most articles over the 12 weeks will be identified from the weekly winners and they will receive attractive prizes from SPH Media Limited!
- The school with the highest average number of articles read during the Primer season will also be announced at the end of the campaign.