

# Enacting the GP-patient relationship in a digital/AI era



NUFFIELD DEPARTMENT  
**PRIMARY**  
HEALTH SCIENCES



Dr Emma Ladds

GP Partner Eynsham Medical Group

DPhil candidate, University of Oxford

British Computer Society Primary Health Care  
Specialist Group Conference 2025

# Acknowledgements

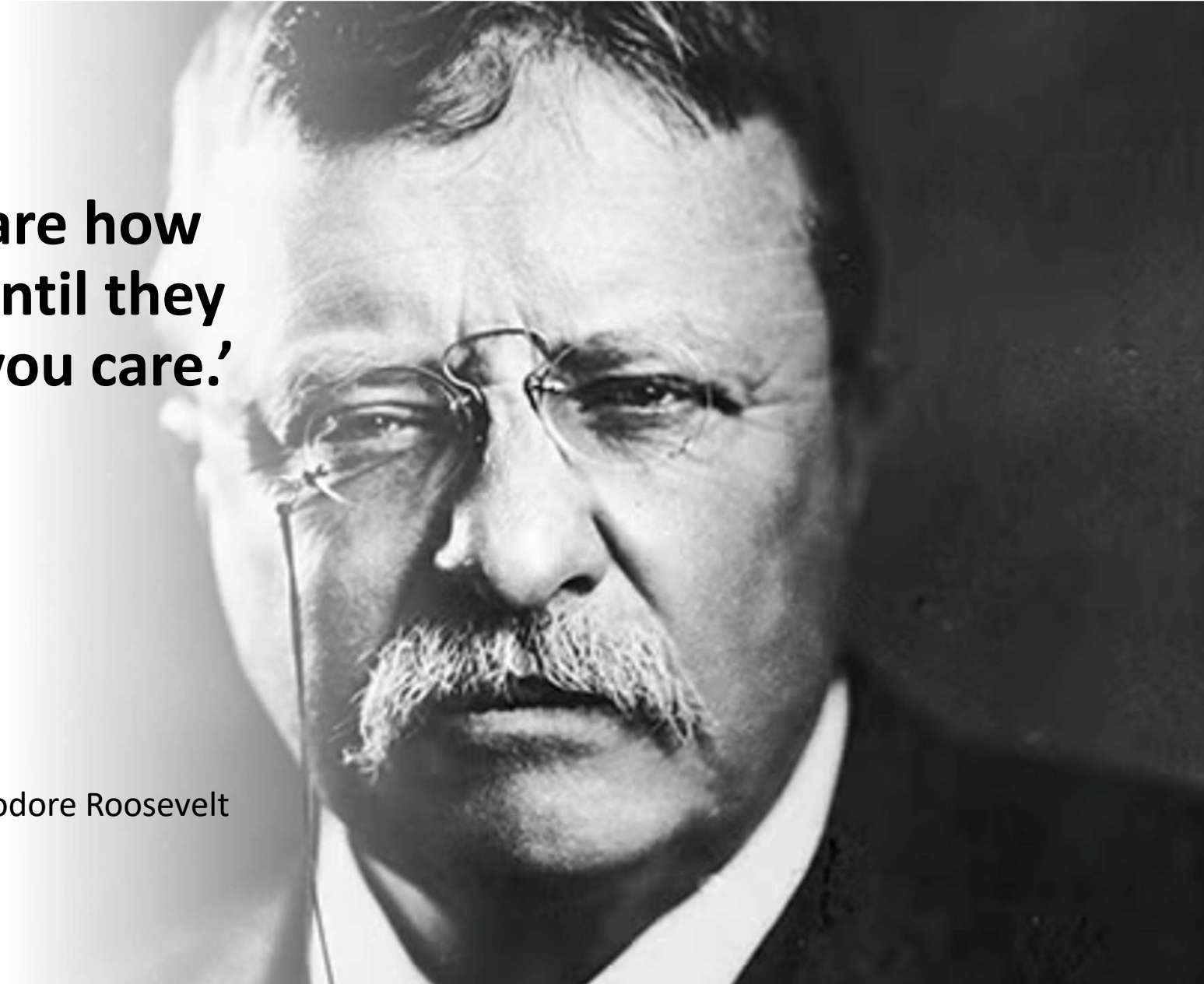
The RbD2 team, DPhil supervisors: Professors Greenhalgh and Swinglehurst, and Ms Dowrick

My GP partners for their patience

My patients – especially those referenced in this presentation  
(pseudoanonymized and consented)

**‘Patients don’t care how  
much you know until they  
know how much you care.’**

Theodore Roosevelt



*‘A relationship over time fosters familiarity, empathy, understanding, a two-way sense of responsibility, all core ingredients of trust; and this trust then encourages disclosure, improves communication, saves time; which in turn cultivates cooperation and empowerment, reduces anxiety and mistakes, improves the execution of tasks undertaken together [...] it all sounds like good common sense.*

*Any one of us who has a relationship with anyone else, personal or professional, intuitively knows this stuff’*

Polly Morland 2022



# CONTENTS

- Where is this coming from...
- Evolution of the GP-pt relationship.
- The current context
- Digital/AI in general practice
- How do digital/AI approaches facilitate GP-pt relationships?
- What goes wrong?
- What can I do?

# RbD2: What has been the impact of the shift to remote and digital modalities for triage and clinical care (and the partial shift back to in-person care post pandemic) in UK general practice?

## 12 UK general practices: July 2021- Dec 2023

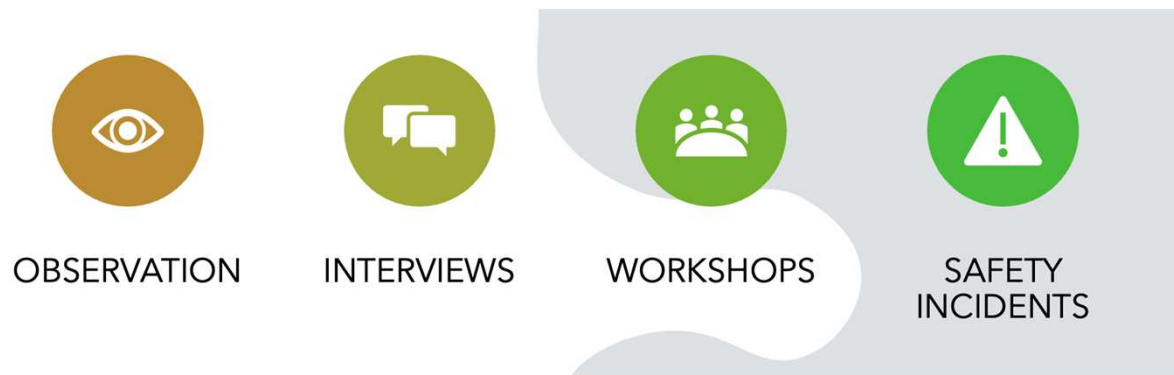
...highly variable



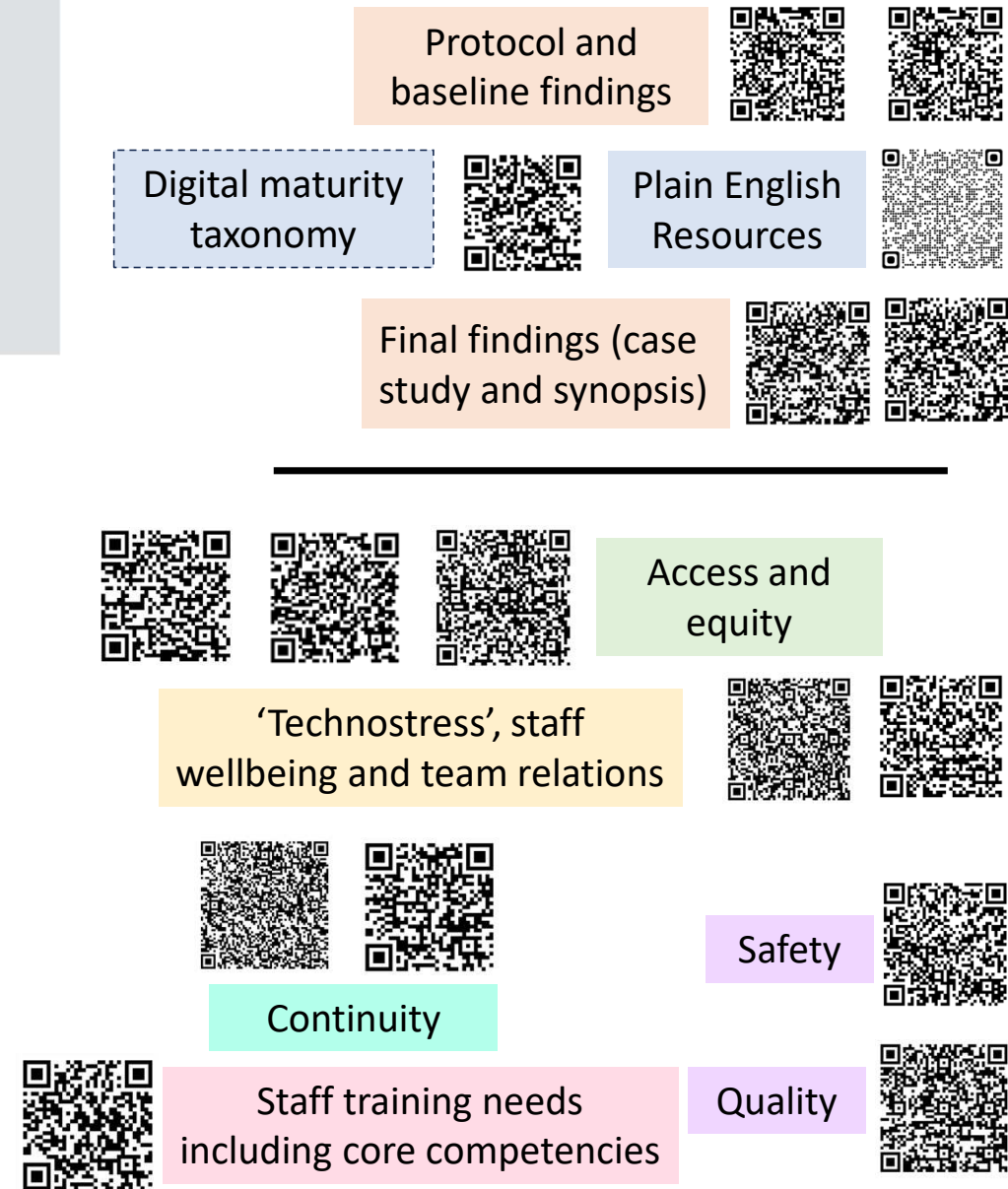
Digital trailblazer	• all the kit, all the know-how
Digitally strategic	• thinking and planning with tech
Digitally curious / digitally reactive	• playing around, following the must-dos
Digitally hesitant	• unsure, under-equipped, lacking knowledge and leadership
Strategically traditional	• serving deprived communities ('Deep End') via in-person care







- **Access and triage**
- **Digital and wider inequalities**
- **Quality and safety of care**
  - Continuity
  - Interactional dynamics
  - Early diagnosis of serious illness,
  - Long-term conditions
  - Patients with complex needs
- **Workload, workforce and staff wellbeing**
- **Technologies and digital infrastructure**
- **Patient input**
- **Carbon footprint**



DPhil:

How are GP-patient  
relationships enacted  
and interpreted in  
contemporary general  
practice?

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What influences shape how GPs and patients enact a relationship in contemporary general practice?

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Through 'doing' a relationship, how do patients and GPs experience and make sense of psychodynamic connections alongside the work of healthcare?

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How does this sensemaking influence and shape the actions and behaviours of GPs and patients within the system?



## WALES

- Semi-rural, 3rd deprivation decile, 2 branches
- Traditional with lone innovator
- 12,000 pts, 98% white, 1.1% Asian, 0.03% other non-white

P01	Male 55-60 white	Professional Grown-up children	Chronic lung disease Anaemia
P03	Female 30-35 white	Intermittent employment Single-mum	ADHD/Autism Depression

## CENTRAL ENGLAND

- Semi-rural, 9th deprivation decile, 2 branches
- Digitally Strategic
- 16,200 pts, 94.8% white, 2.2% mixed, 1.7% Asian, 1.3% other non-white

P02	Female 85-90 white	Retired nurse Female partner (carer)	Dementia Mild OA
P05	Male 40-45 Asian	Deputy manager Lives with parents (non- English speakers)	Stress & Depression

## SOUTH-WEST ENGLAND

- Inner-city, 4th deprivation decile, 6 branches
- Digitally Curious
- 30,000 pts, 95% white, 2% Asian/2% mixed, 1% other non-white

P04	Female 45-50 White	Single mum (6yr old, autism) Doesn't work	Chronic functional pain Diverticulitis
P06	Female 20-25 White	Single mum Unemployed Domestic abuse, Unstable housing	Learning difficulties Primarily psychosocial



## General practice is like calling an Uber, MPs say

20 October 2022 · Comments



By Nick Trigg  
Health correspondent

What IS the GP-patient relationship?

# How has the GP-pt relationship evolved?

Article Text

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Original research

Exploring the GP-patient relationship: a historical narration 



Authors

Emma Ladds  
Nuffield Department of Primary Care Health Sciences, University of Oxford, Oxford, UK  
[PubMed articles](#) [Google scholar articles](#)

1. **Correspondence to:** Dr Emma Ladds; [e.ladds@nhs.net](mailto:e.ladds@nhs.net)

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- The Emergent Period (1815-1948)
- The Age of Decline (1949-1965)
- The Era of Revival (1966-1988)
- The Time of Marketization (1989-2004)
- The Drive to Fragmentation (2004-present day)



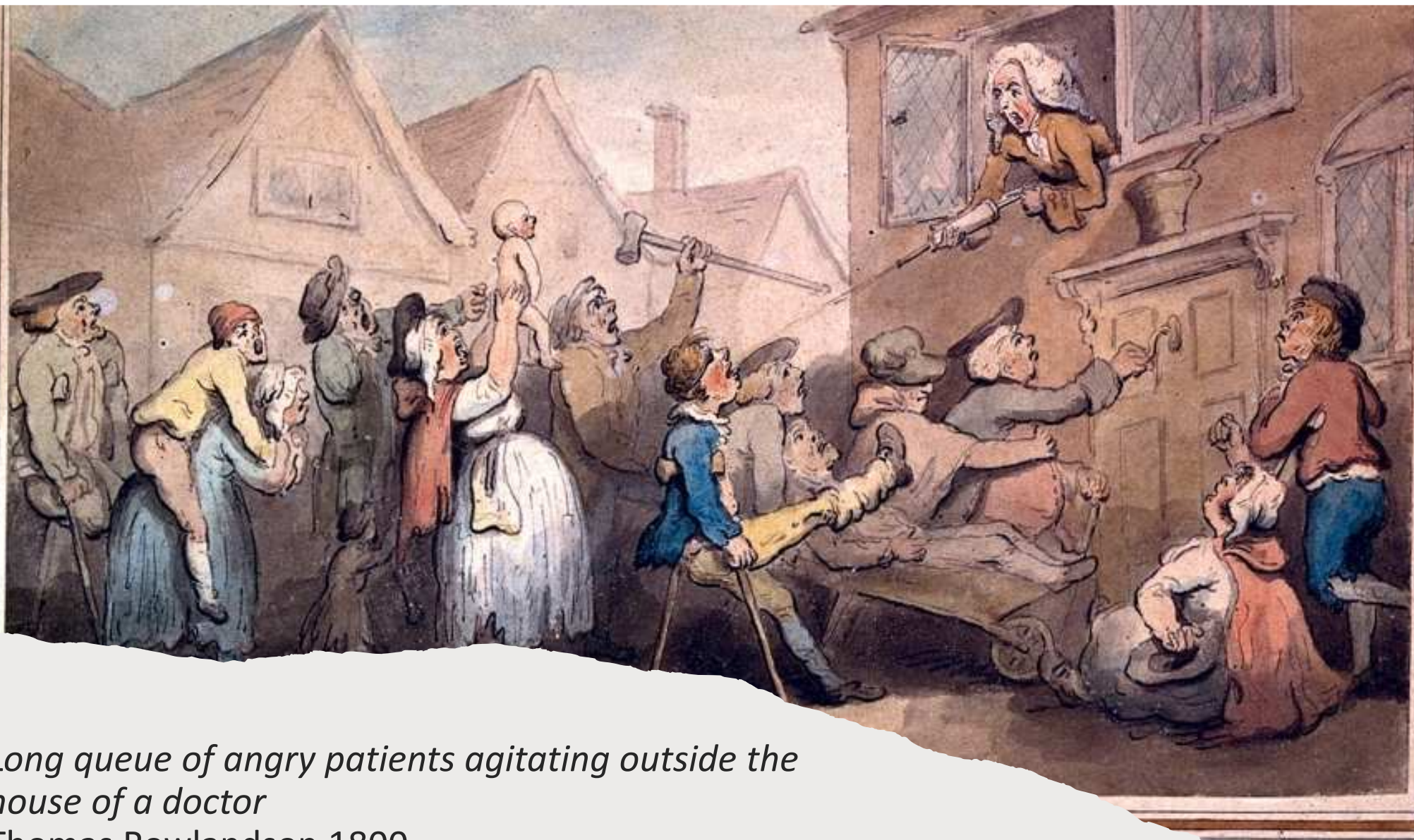


# The Emergent Period (1815-1948)



An Apothecary shop  
(*The Apothecary* circa 1752 - Pietro Longhi (1701–1785))

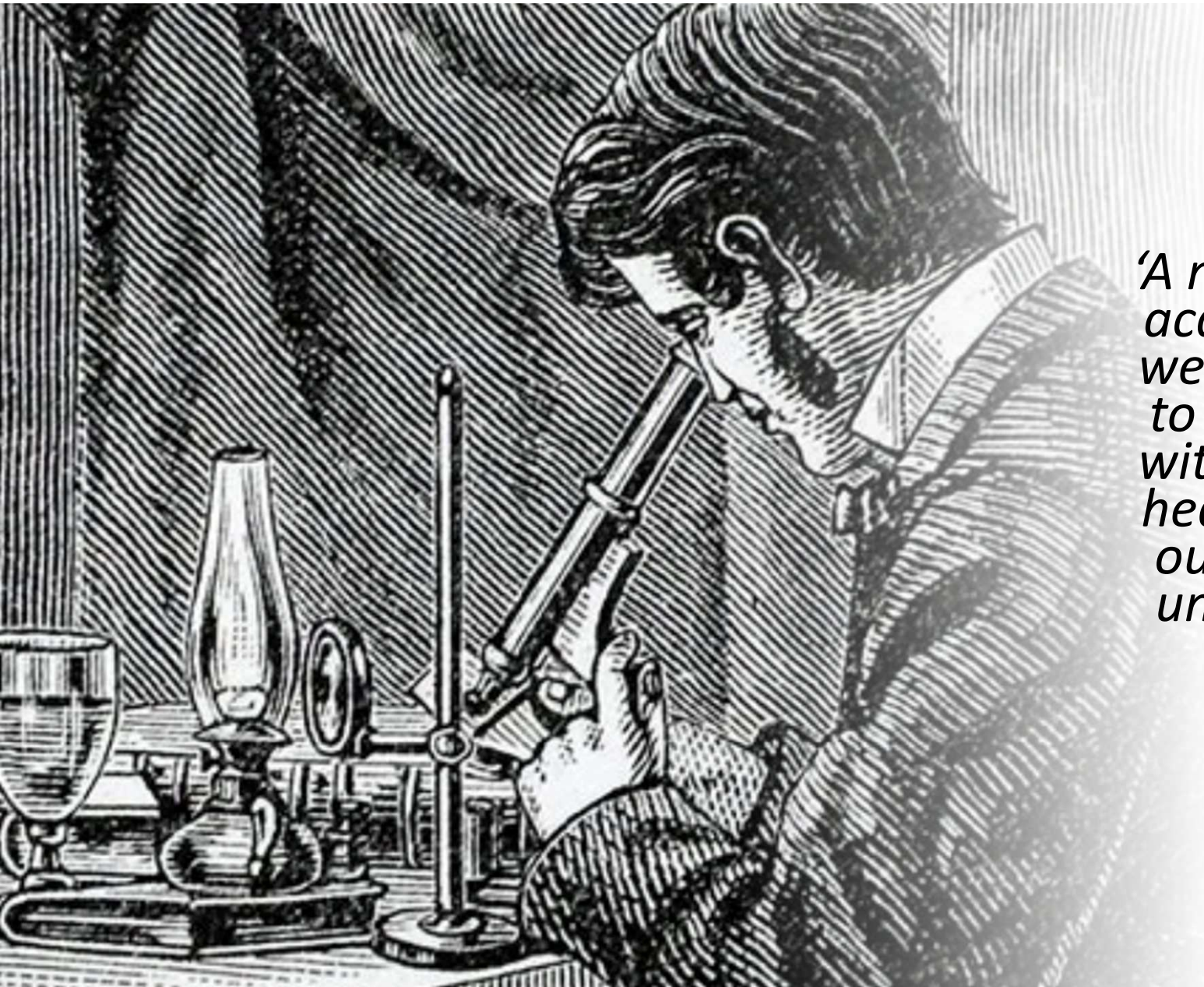




*Long queue of angry patients agitating outside the house of a doctor*

Thomas Rowlandson 1800





*'A man who really has an acquaintance with us as we are. Who is admitted to some of us every day with wigs and paints off, hears the wanderings of our minds and sees the undisguised expression of our faces'*

Little Dorritt  
Dickens 1857





## YOUR NEW NATIONAL HEALTH SERVICE

On 5th July the new National Health Service starts

Anyone can use it—men, women and children. There are no age limits, and no fees to pay. You can use any part of it, or all of it, as you wish. Your right to use the National Health Service does

there is no reason why the whole of the patient-doctor relationship should not be freed from what most of us feel is irrelevant to it – the money factor, the collection of fees or thinking how to pay fees – an aspect of practice that is already distasteful to many practitioners'

Bevan 1948

*Presented by the Minister of Health to Parliament  
by Command of His Majesty*

now, personal and confidential. The big difference is that the doctor will not charge you fees. He will be paid, out of public funds to which all contribute

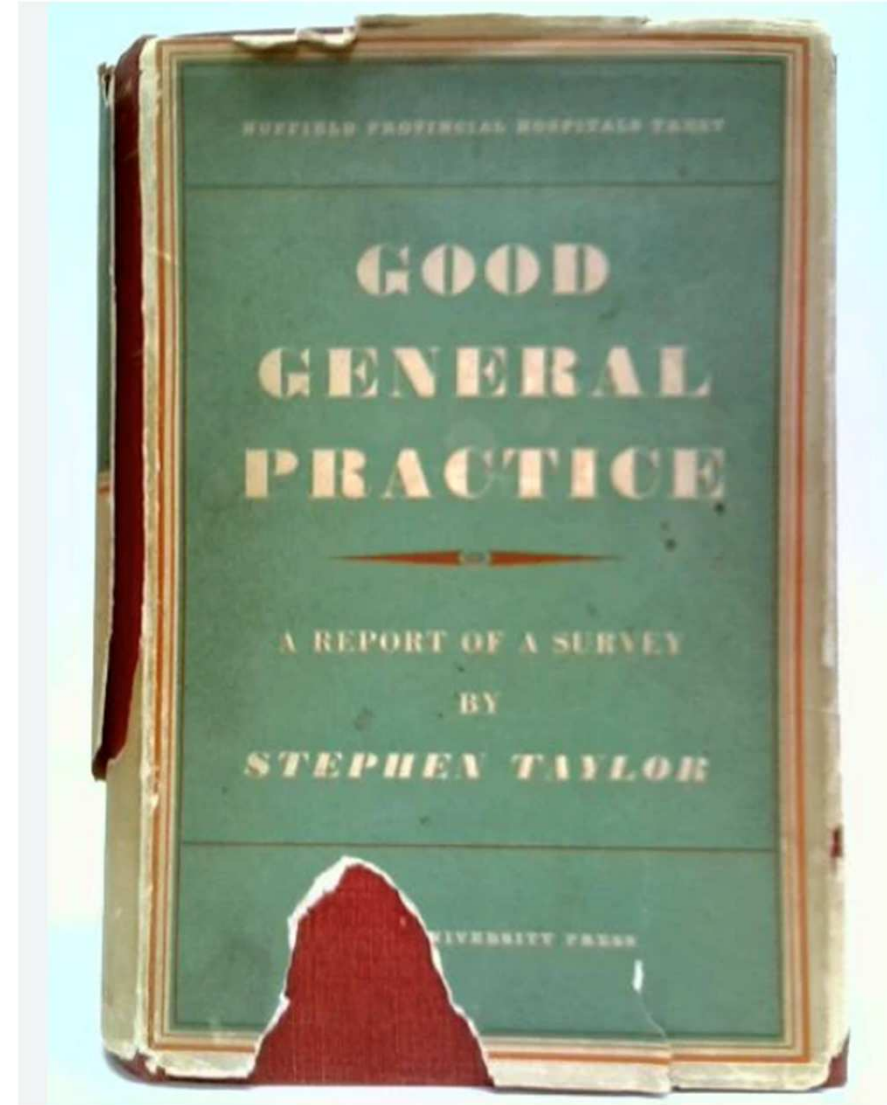
doctor, you need do nothing. Your name will stay on his list under the new Scheme.

But make arrangements for your

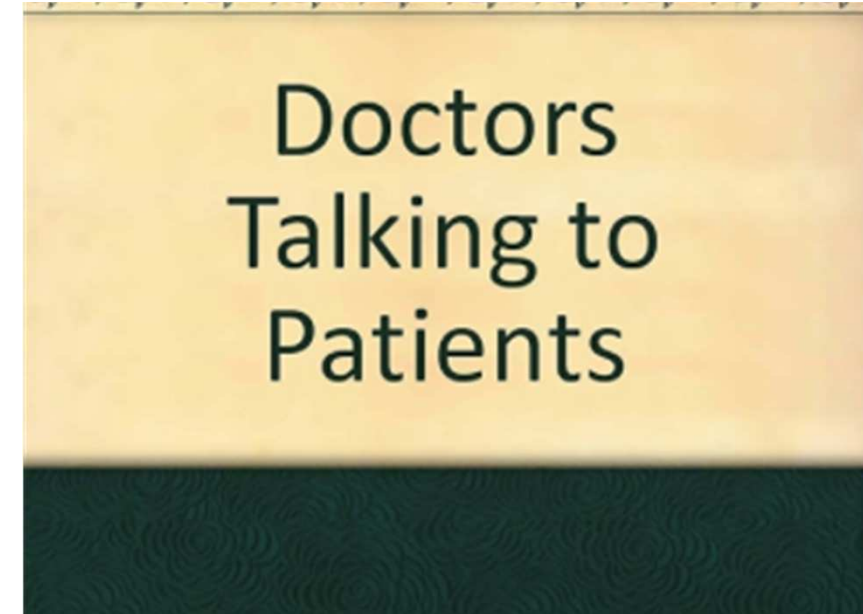
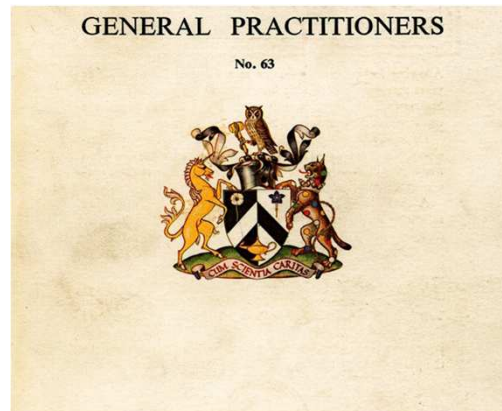
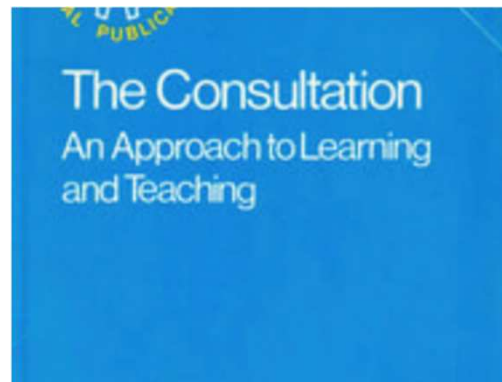
# The Age of Decline (1949-1965)

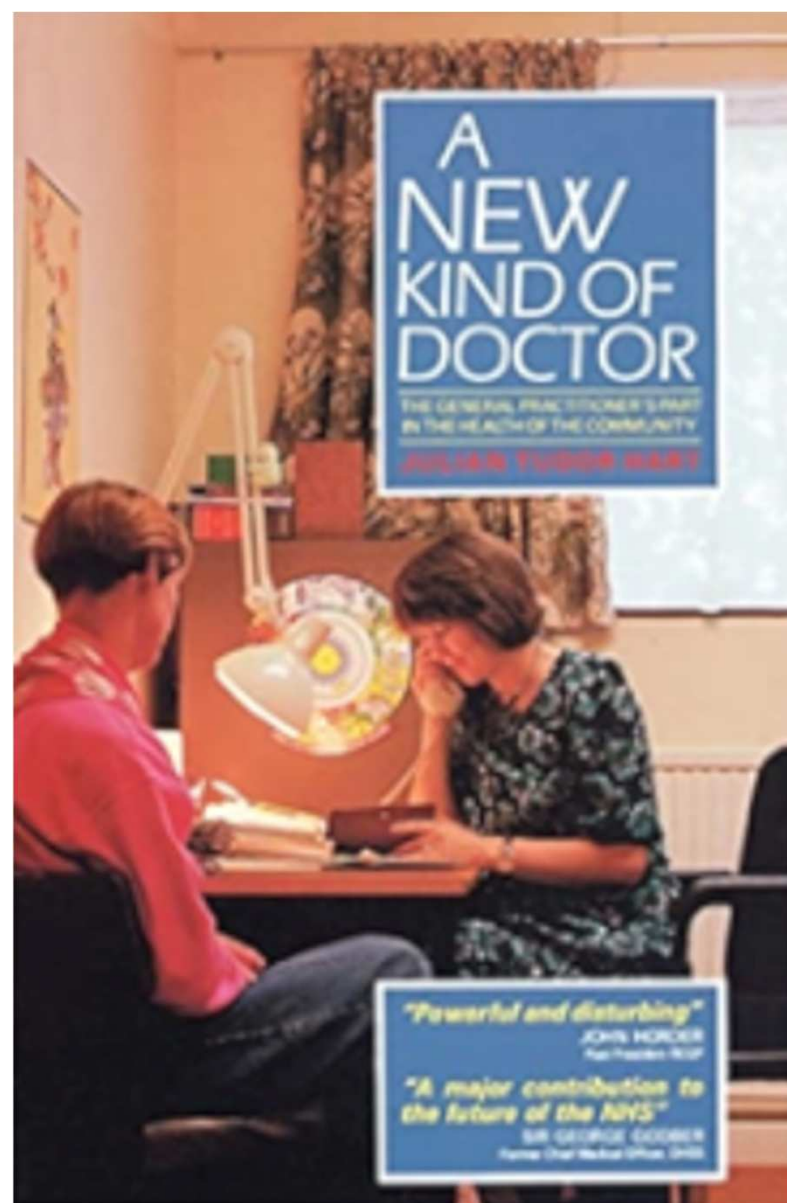
*'...about one quarter of general practitioners are very good indeed. About one half are good, sound, and reliable and would not hesitate to call them in for one's family...the remaining quarter are less satisfactory [with] a final twentieth for whom it is difficult to find any excuse'*

Taylor 1954



# The Era of Revival (1966-1988)





# A NEW KIND OF DOCTOR

THE GENERAL PRACTITIONER'S PART  
IN THE HEALTH OF THE COMMUNITY

JULIAN TUDOR HART

*"Powerful and disturbing"*

JOHN HORDER  
Past President, RCGP

*"A major contribution to  
the future of the NHS"*

SIR GEORGE COOPER  
Former Chief Medical Officer, NHS







# Computer and EHR in consultations

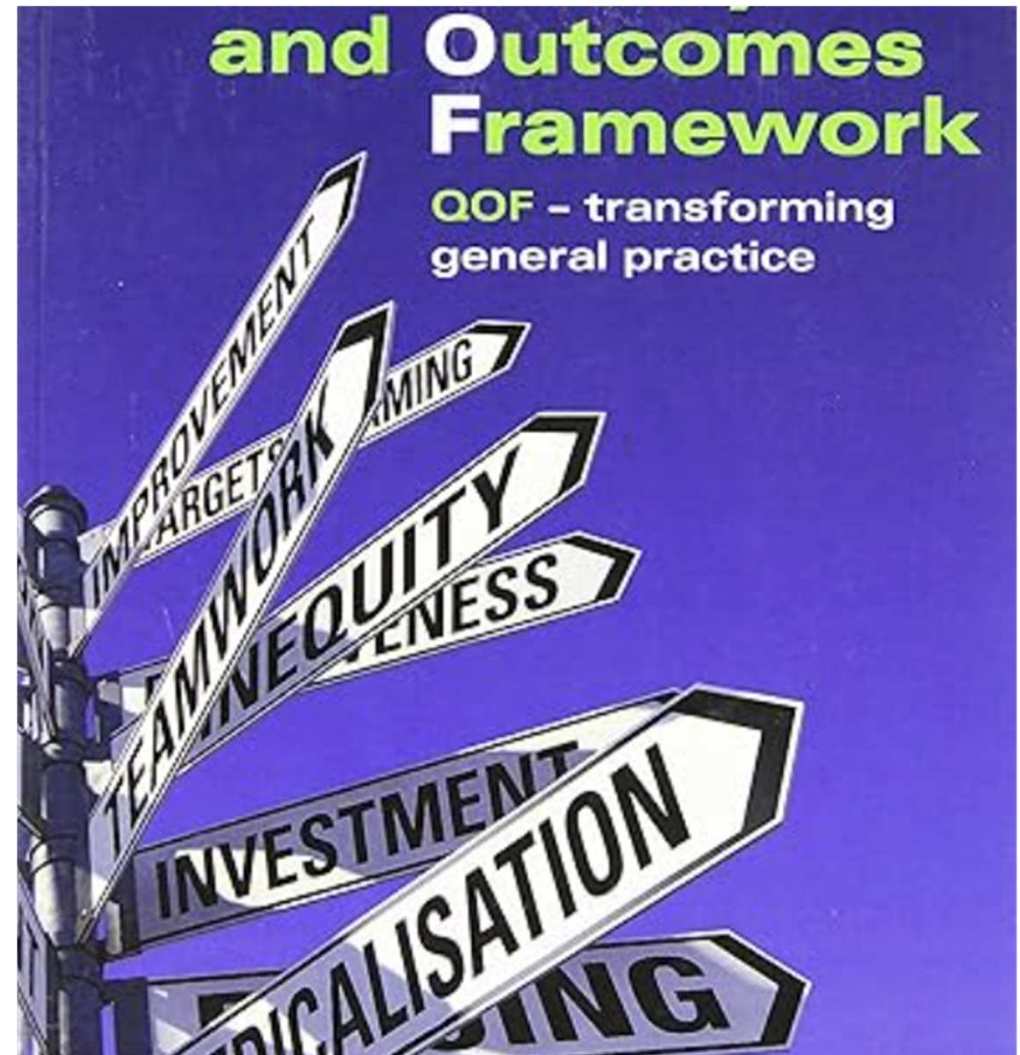
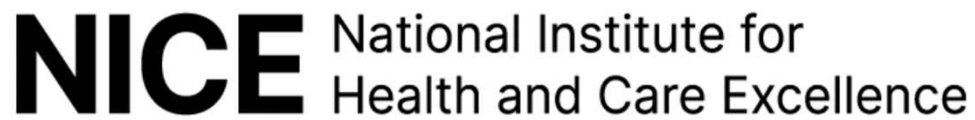


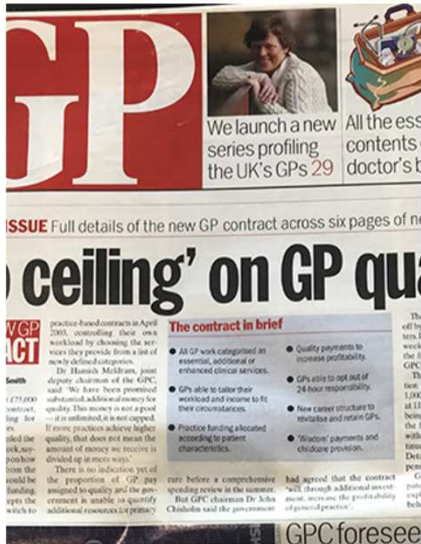


The Time of  
Marketization  
(1989-2004)

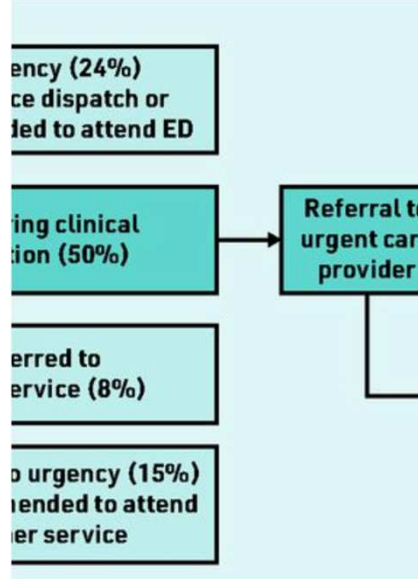


**NICE** National Institute for Health and Care Excellence





what would become the 2004 GMS contract in April 2002

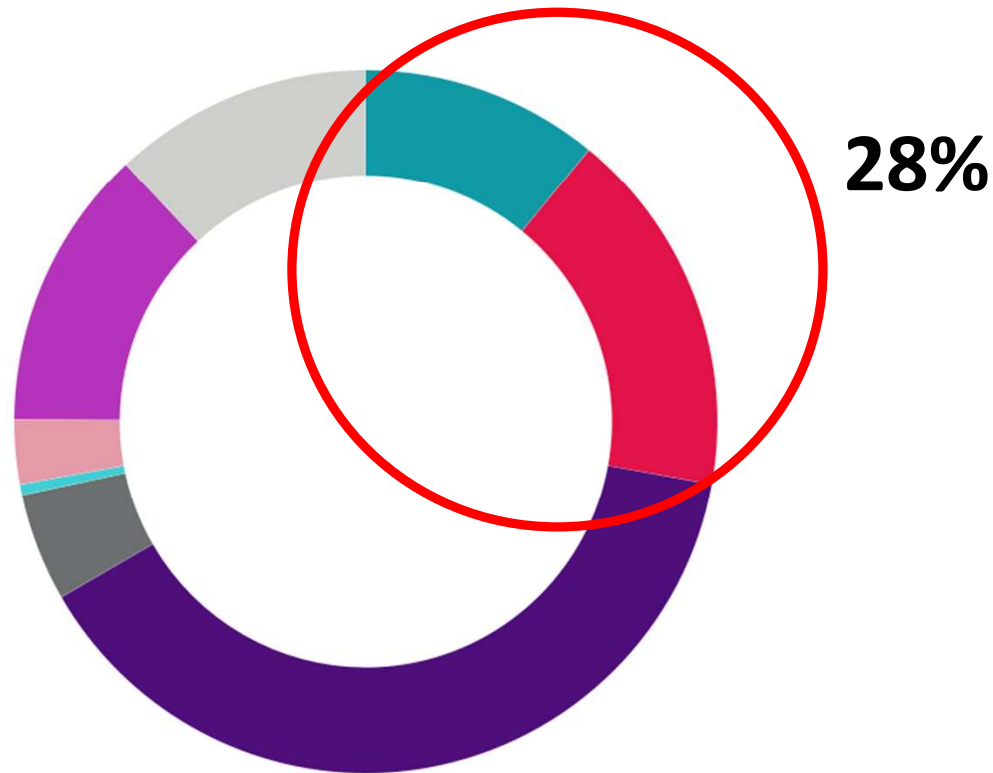


## THE NEW ARRS ROLES



# The Drive to Fragmentation (2004-present)

## NHS 111 dispositions (January 2025)



 Ambulance services

 Dental practitioner

 Self-care

 Emergency services

 Pharmacist

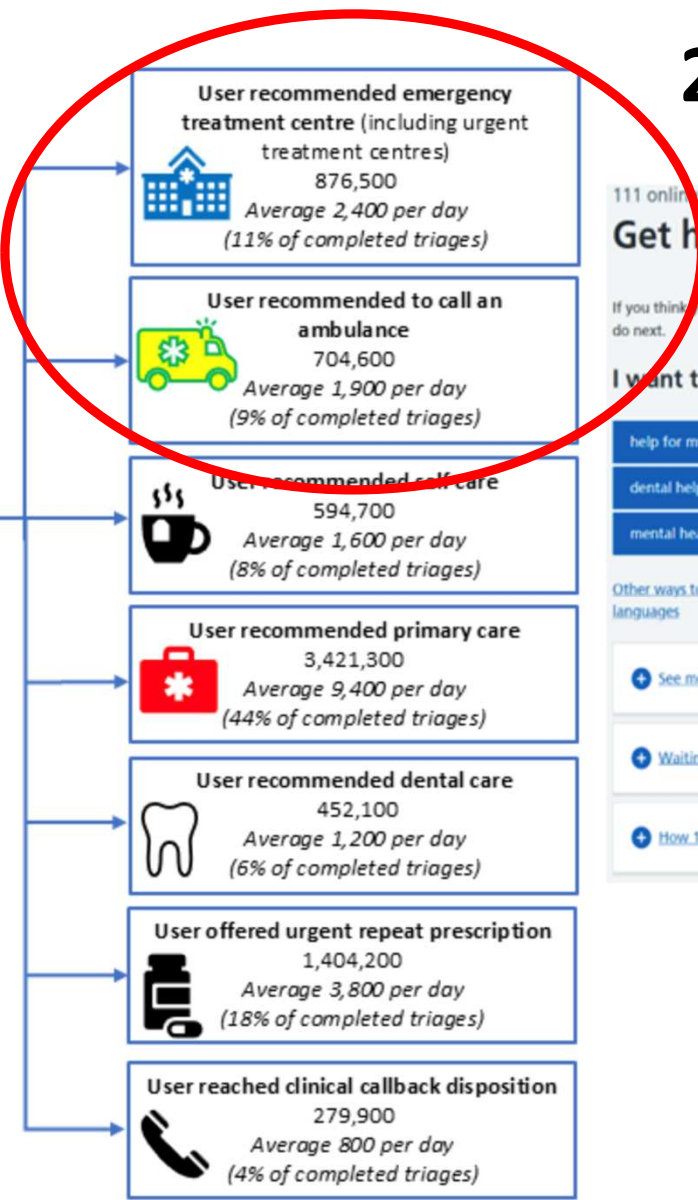
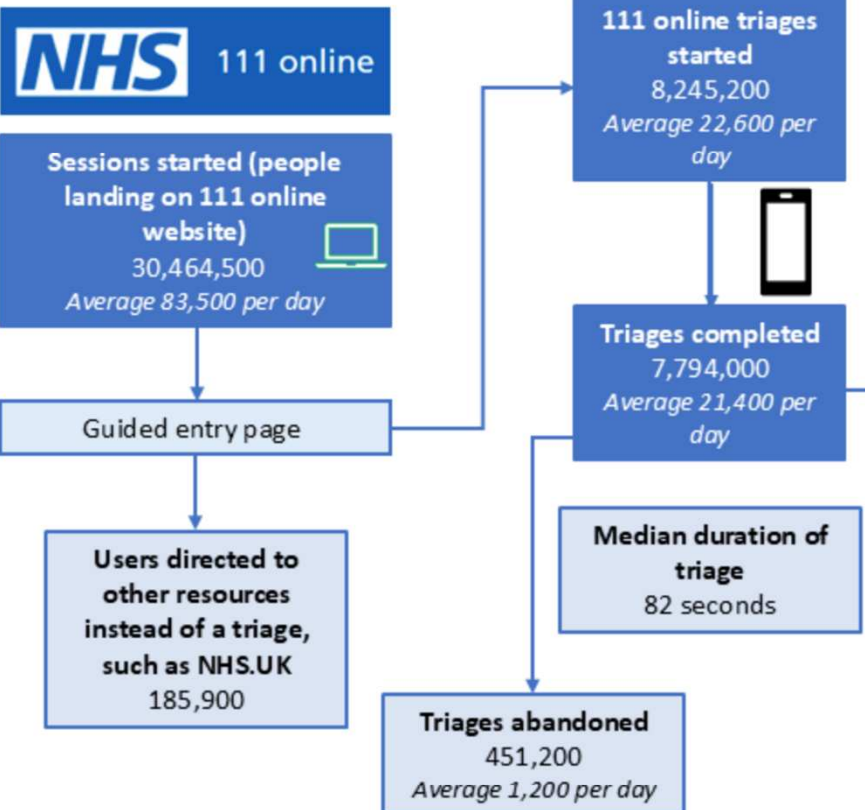
 Other outcome/service

 Primary care services

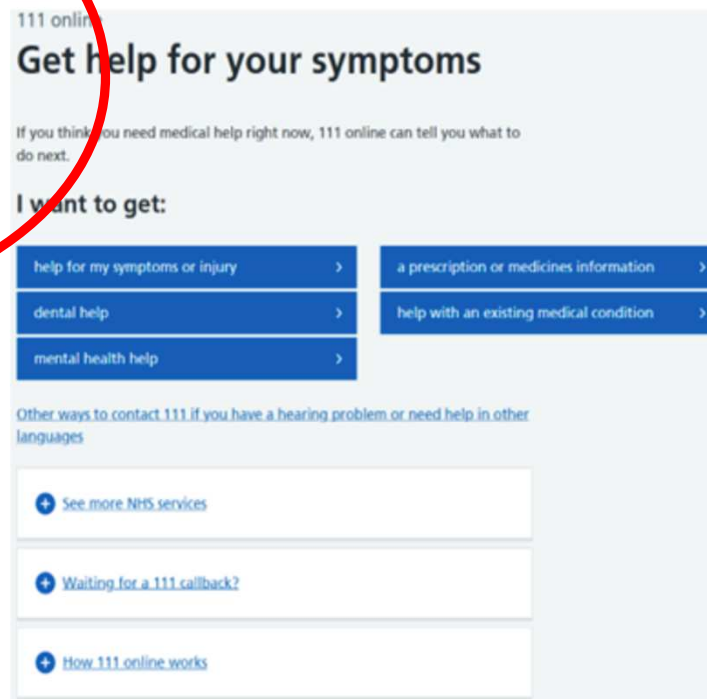
 Repeat prescription medication



# 111 online 2024/25



20%





General practice / Family practice  
Research

# Potential for advice from doctors to reduce the number of patients referred to emergency departments by NHS 111 call handlers: observational study

Andrew Anderson <sup>1</sup>, Martin Roland <sup>2</sup>

Correspondence to Professor Martin Roland; [mr108@cam.ac.uk](mailto:mr108@cam.ac.uk)

## Abstract

**Objective** To determine the effect of using experienced general practitioners (GPs) to review the advice given by call handlers in



1474 cases sent to A&E by NHS 111 reviewed by GP

> A&E - **27%**

> Primary Care (OOH GP/regular GP) or MIU - **45%**

> Self-care – **28%**



# The Internet and SoMe

Email or phone



## Long Covid Support Group

Private group · 67.8K members

About Discussion

### Article

## Trust in Doctors, Positive Attitudes, and Vaccination Behavior: The Role of Doctor–Patient Communication in H1N1 Vaccination

Health Communication

March 2021 · 37(1):1-9

DOI:10.1080/10410236.2021.1895426

Authors:



Stop Mandatory Vaccination  
Sponsored

"We followed the ambulance to the hospital. They tried, they really did. A nurse tried to take our son to a separate room with coloring books and treats that he was completely unfamiliar with. They hugged us in a smothering- not comforting- way, and tried to tell us that it would be ok. I heard them call for a second Epi-Pen. I knew it was hopeless. My husband and son stood in shock. I hugged my childhood friend, the firefighter, who had come to the hospital. He said, "I'm so sorry," and walked away." Want



Vaccines  
Kill  
Babies

6 Month Old Gets 7 Vaccines And Dies Two Weeks Later From "SIDS"  
"My breasts were full of milk and my baby was dead."

Learn More

### Ad Performance

Inactive  
Started running on Oct 5, 2018

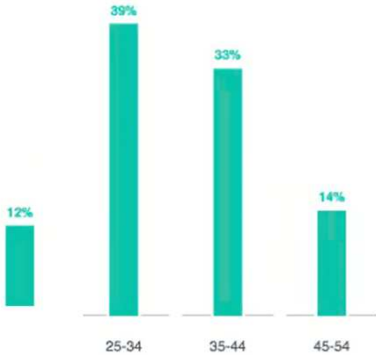
1K - 5K  
Impressions

<\$100  
Money spent (USD)

### Audience Breakdown

Age and Gender

Men Women Unknown





‘The map of biomedical science only roughly matches the territory of human suffering’

Heath 2016





The Current Context

A graphic for the NHS 10 Year Health Plan. It features a dark blue background with a glowing DNA double helix on the right side. At the top left is the Royal Coat of Arms, and at the top right is the NHS logo. The title '10 YEAR HEALTH PLAN' is in large white letters, followed by the subtitle 'We're transforming your NHS'. Below this are five blue circular icons, each with a white symbol, followed by a list of five points.

# 10 YEAR HEALTH PLAN

We're transforming your NHS

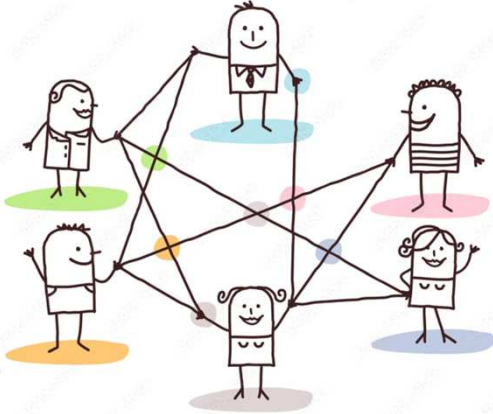
-  Neighbourhood health centres for every community
-  Your NHS in your pocket via the NHS App
-  Personalised healthcare tailored to your individual needs
-  Digital red book putting your children's health information securely on your phone
-  Technology for faster diagnosis, virtual care and built on single patient records

# 10 Year Long Term Plan

'5 transformative technologies:

- Data
- AI
- Genomics
- Wearables
- Robotics-technologies'

## INTERFACE COMMUNICATION



### ACCESS

- Online access portals
- NHS App
- Triage algorithms (eg: 111 online)

### SERVICE COORDINATION

- Asynchronous communication
- Shared EHRs
- Direct referrals (eg: 111)

### DATA SHARING

- Activity metrics (eg: appts)
- Targets (eg: QOF)

## 'CLINICAL' ENCOUNTERS



### MODALITIES

- Online symptom sorters
- Virtual consultations
- Asynchronous encounters
- Online reviews/info submission

### INFORMATION

- 'Dr Google' or 'Dr ChatGPT'
- Patient wearables
- Remote signposting/PILs
- NHS App – Results/f/u
- Digital/AI streamed guidelines
- Digital tools/calculators

## ADMINISTRATIVE



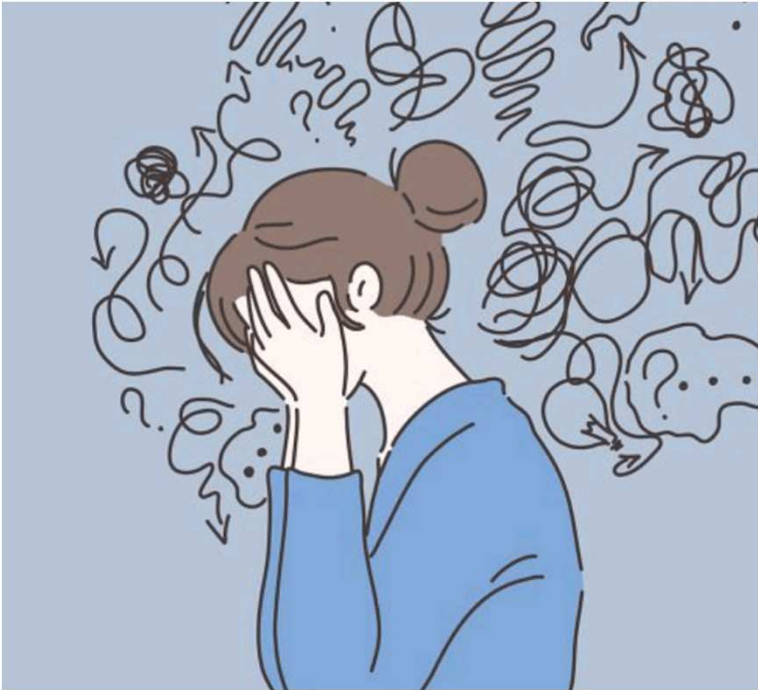
### HR-RELATED

- AI policies/protocols
- Staffing rotas etc
- Staff communication eg: WhatsApp groups)

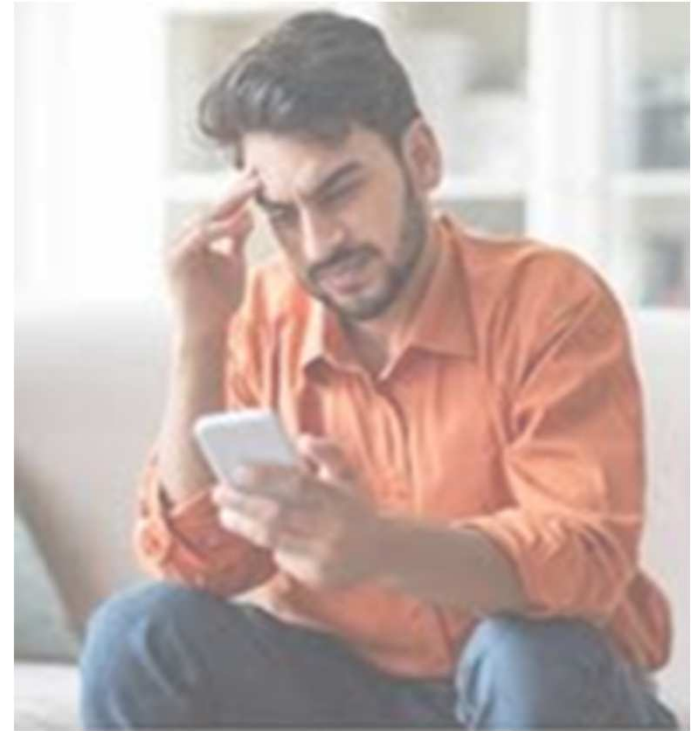
### WORKLOAD

- Workload coordination/planning
- Population
- Summarizing/redacting
- Automatic recalls/alerts
- AI scribes
- Remote prescribing

# What matters to patients...



**Laura, aged 19**



**Amir, aged 54**



# ...it depends.

## **ACCEPTABILITY**

- Convenient
- Generally safe
- Enables care at a distance
- 'Black box' effect

## **WORKLOAD**

- Supports stratification and triaging
- Can improve efficiency, workload, and streaming (and potentially access)
- Enables targeting of resources
- Asynchronous activities - autonomous time management

## **CAN SUPPORT CONTINUITY**

## **EFFICACY**

- Effective information sharing
- More meaningful encounters eg: digital risk calculators etc.
- Facilitates signposting



# EFFORTFUL

## For (some) patients

- Locate/navigate services
- Negotiate tech (if able)
- Negotiate with staff
- Interpret and (mis)classify sy
- Persuasive digital facsimile (safety)

## For (some) staff

- Articulative (get it done/safety)
- Requires on knowledge of the patient
- Requires staff to use/learn tech
- Technostress



## For (some) technology-users

- Configure the user:
  - Hearing/sight
  - Literacy/language
- Determined outcomes (eg: econsult > A&E)

## Experiences influence ongoing engagement

## Relational sparsity of digital representation

- EHR
- Digital facsimiles



- **Reduced healthcare utilization** (Val Walraven et al 2010)
- **Increased 'compliance'/outcomes** (O'Connor et al (1998)
- **Increased patient satisfaction** (Val Walraven et al 2010; Saultz et al 2004)
- **Improved doctor satisfaction** (Ladds 2023)
- **Reduced mortality** (Pereira-Gray et al (2018)

"A feeling of **security** in knowing what to expect next"

"An **ongoing** relationship with the same person"

"**Consistent** approach to managing my condition"

"Being seen by someone I **trust** because I **know** them"

"People talking to each other so that my care goes **smoothly**"

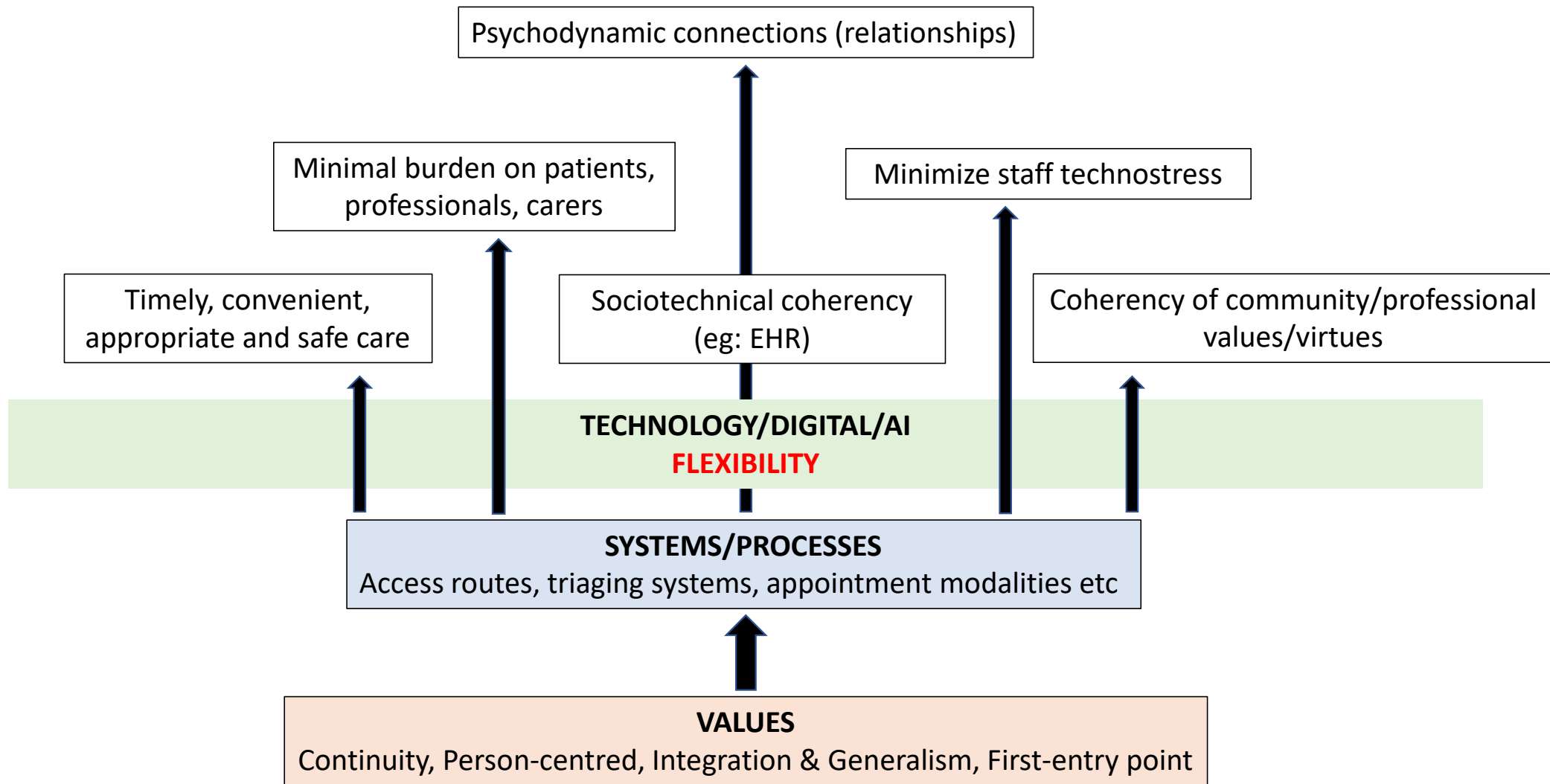




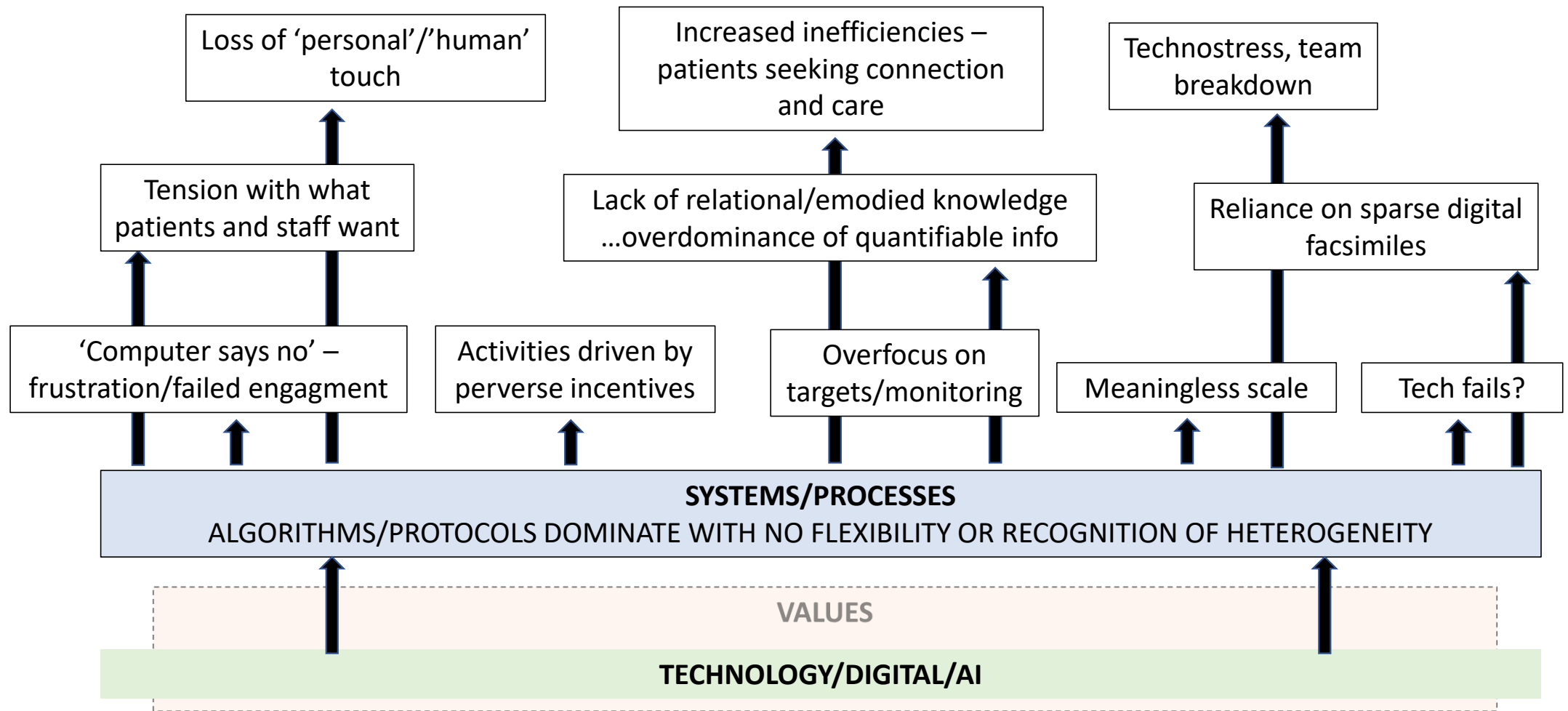
Type of Continuity	Definition	Paradigm
<b>Therapeutic</b>	Ongoing relationship with one or more practitioners: attentiveness, trust, and positive regard.	Psychodynamic
<b>Disease Episode</b>	Same practitioner for a number of disease episodes – may involve a central ‘integrator’/overseer eg: GP.	Biomedical
<b>Distributed work</b>	Joining the ‘arc of work’ of multiple professionals, distributed in space and time.	Sociotechnical
<b>Commitment to community</b>	Serving a population over time according to need, values, and adapting to demographics, epidemiology, and health policy.	Sociopolitical/ethical



# Facilitating quality relationships...



# What goes wrong?





# What can I do?

How can I help tech/AI developers/commissioners understand what I and my patients want/need?

AM I BEING A DINOSAUR?

What (unintended) consequences might there be from tech here?

How can I mitigate these any unwanted consequences?

What professional/community values should underpin my services?

How can tech/AI support my values rather than challenges them?

Is technology needed/appropriate for THIS patient, at THIS time, for THIS issue?

How would I feel if this was my care?



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