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Transforming health systems to reduce health inequalities

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3 ***Abstract***
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5 Never before in history have we had the data to track such a rapid increase in inequalities.
6 With changes imminent in healthcare and public health organisational landscape in England
7 and health inequalities high on the policy agenda, we have an opportunity to re-double of
8 efforts to reduce inequalities.
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11 Here we argue that health inequalities need re-framing to encompass the breadth of
12 disadvantage and difference between healthcare and health outcome inequalities. Second,
13 there needs to be a focus on long-term organisational change to ensure equity is considered in
14 all decisions. Third, actions need to prioritise the fundamental redistribution of resources,
15 funding, workforce, services and power.
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18 Reducing inequalities can involve unpopular and difficult decisions. Physicians have a
19 particular role in society and can support evidenced-based change across practice and the
20 system at large. If we do not act now, then when?
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3 For the first time in history we have the empirical data to witness a rapid compounding of
4 existing inequalities due to the COVID-19 pandemic, particularly for lower socio-economic
5 and minority ethnic groups.^{1,2} In the UK deaths in the most deprived areas are double those in
6 the least deprived (age-sex standardised rate in least deprived areas 350 deaths per 100,000
7 compared to 669 in the most).³ In the US and UK, deaths are up to three times higher in
8 minority ethnic groups.⁴ The current crisis represents a syndemic pandemic; the intertwined,
9 interactive and cumulative effects on health and wellbeing of the COVID-19 pandemic
10 combined with substantial existing socio-economic inequalities across life courses and in
11 communities.²
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15 Despite the policy prominence and various frameworks focusing on health inequalities,^{5–8}
16 healthcare leaders still do not feel they have the skills and knowledge to reduce health
17 inequalities.⁹ The underlying reasons for this may include a failure of researchers to provide
18 accessible evidence on how to translate evidence into practice as well as a lack of a
19 systematic and logical approach to inequalities for healthcare systems.^{10–12} Physicians have a
20 particular role in society and can support evidence-based change across practice and the
21 system at large. In this paper, we first discuss the current policy and research context, then
22 argue it is time for a re-framing of inequalities within healthcare systems, with a concerted
23 effort to build a long-term organisational change to tackle inequalities head on, along with a
24 wider redistribution of resources, funding, workforce, services and power across healthcare
25 and wider society.
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30 ***Policy, research and legislative context of health systems in the UK***

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32 In England, for the first time, key national and local NHS decision making bodies were
33 required by law to address inequalities in access and outcomes under the Health and Social
34 Care Act 2012.¹³ This was the result of a growing body of literature showing sustained stark
35 health *outcome* inequalities,^{14,15} dating back to the Black Report,¹⁶ with inequalities in waiting
36 times, patient experience and hospital admissions.¹⁷ The Health and Social Care Act also
37 shifted power from ministerial departments to NHS England with a decentralisation of
38 decision making to local health systems. Despite the statutory responsibility, the years after
39 the enactment of the Health and Social Care Act were dominated by re-organisation with
40 considerable fragmentation of previously aligned services. Reforms were undertaken in the
41 name of efficiency with poor evidence of their impact, rising costs to the health system and
42 little progress on health inequalities, despite the clear negative health and wellbeing impacts
43 of austerity and welfare reform.^{18,19} Public health professionals classified the risk of this
44 reorganisation to widen health inequalities as “extreme”.²⁰
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48 In 2019, the NHS in England was asked to develop its own plans for a £20 billion funding
49 injection. High level policy objectives and initiatives were outlined in the Long Term Plan²¹
50 and in turn local healthcare systems were asked to develop their own local response plans.
51 Health inequalities were a prominent feature of the national Long Term Plan amongst other
52 priorities, such as primary care workforce, integration, prevention, cardiovascular disease and
53 cancer. The plan set out to establish a “more concerted and systematic approach to reducing
54 health inequalities” alongside a number of specific inequalities initiatives such as supporting
55 minority ethnic groups. However, the plan and its subsequent supporting documents failed to
56 outline how local and national systems could systematically approach health inequalities with
57 an expectation that local healthcare systems would each develop their own approaches. Our
58 own previous research has highlighted that this is challenging for local systems, resulting in
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3 local plans being vague and lacking a systematic or joined up approach.¹² Furthermore, he
4 lack of a national health inequalities strategy (like that successfully pursued between 2000
5 and 2010^{22,23}) makes it harder to effect change across local health systems.
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8 In response to COVID-19 inequalities data, NHS England and NHS Improvement (NHSE/I)
9 published eight urgent actions to address health inequalities, including directives protecting
10 the most vulnerable, improving recording, strengthening leadership, and increasing
11 preventative measures.²⁴
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13 The structure of the NHS has moved substantially from its inception, through many re-
14 disorganisations and, lately, the statutory bodies established under the Health and Social Care
15 Act 2012. More recently Integrated Care Systems have been established, which are likely to
16 merge with Clinical Commissioning Groups.²⁵ It is likely that further health and social care
17 legislation, under the advice of NHSE/I, will be passed in the near future to catch up with the
18 organisational evolution.²⁶
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21 Only seven years after its formation, Public Health England (PHE) is already being
22 disestablished. PHE was set up to protect and improve the nation's health *and reduce health*
23 *inequalities*.²⁷ One action of the Health and Social Care Act was the extraction of public
24 health skills from leadership roles within the NHS, something that was an obvious gap
25 immediately after revealing a lack of understanding of the key role of public health leadership
26 and skills in health and social care systems. This has become critical during the COVID-19
27 pandemic, as more public health leadership in the health and social care system may have
28 improved the response.
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32 Health inequalities have been a common thread across PHE activities. While trying work
33 across organisational boundaries, these have included the provision of data on health
34 inequalities, guidance, evidence-based tools for local health systems, advice to national
35 government and focused action on inequalities in screening and immunisations.^{5,28-31} PHE
36 have particularly promoted a place-based approach to inequalities.⁵ Under current plans
37 PHE's health protection functions will be taken over by the National Institute for Health
38 Protection, but the future location of the other PHE functions is still under discussion.
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41 The research community has been driving forward the inequalities' agenda. The Academy of
42 Medical Sciences published their report *Improving the health of the public by 2040*
43 promoting a health of the public approach research approach with a strong emphasis on
44 health equity³². In response to this, the Strategic Coordination of the Health of the Public
45 Research committee (SCHOPR) was established and has set out its guiding principles on
46 population research, including a priority of focused investigation into how interdisciplinary
47 research can reduce inequalities.³³ Furthermore, the Academy of Medical Sciences has
48 recently written to the Secretary of State outlining the need to prioritise prevention and
49 improvement to reduce inequalities.³⁴
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52 More recently the Royal College of Physicians (London) have convened a coalition of over
53 140 organisations to campaign for a cross-government strategy to reduce inequalities, the
54 commencement of the socio-economic duty in the Equality Act and prioritising child health
55 in public policy.³⁵
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58 With the healthcare and public health reform afoot, inequalities highlighted due to the
59 pandemic and thus high on the policy agenda, and a mobilised research community, it is time
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3 to rethink our approach to inequalities within and beyond the healthcare system. Without
4 clarity, sufficient prioritisation and leadership any actions are at risk of only ever having a
5 marginal impact.
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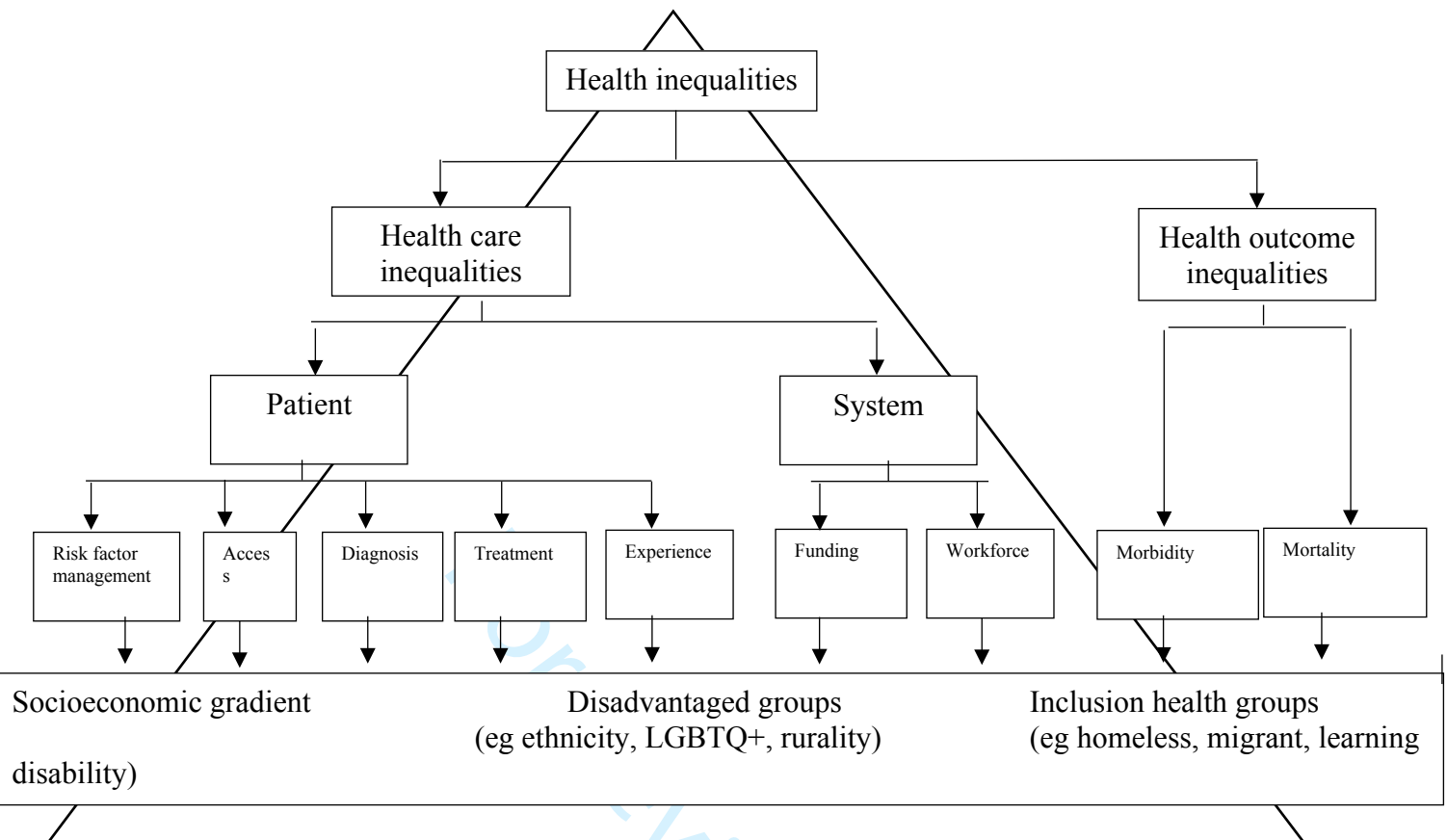
8 9 *Framing inequalities to ensure a systematic and logical approach in health systems*

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11 Framing is a way of structuring or presenting a problem and can be helpful, potentially vitally
12 so, to ensuring action.³⁶ How we discuss and present inequalities must be developed with and
13 for any audience it is hoped might contribute to effective changes. For example, NHS staff
14 are more likely to engage if inequalities are framed around healthcare and the specific
15 services for which they are responsible, such as inequalities in chronic disease management
16 or non-elective admissions alongside concrete actions, rather than high-level more abstract
17 health outcome inequalities, such as differences in life expectancy.³⁷ A lack of adequate
18 framing brings risks. Focusing only on high level inequalities with healthcare staff, such as
19 life expectancy, may lead to: 1) a sense of fatalism because these inequalities are primarily
20 driven by geo-political factors outwith the influence of local health systems and their
21 leaders;^{38,39} or 2) a belief that downstream individual actions targeted at the social
22 determinants of health will reduce inequalities.⁴⁰ In turn these may lead to a health
23 inequalities fatigue where motivation for action on inequalities wains due to short-termism
24 and a perceived lack of progress.
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29 A broad framing of inequalities highlighting how multiple different aspects of disadvantage
30 lead to substantial differences in healthcare and health outcomes is needed to allow decision-
31 makers to develop their own systematic and logical approach to doing what is within their
32 power and advocacy to reduce inequalities. Without this systematic approach there is a risk of
33 an unequal focus on certain groups at the expense of others, such as focusing on the so-called
34 'deserving poor' at the expense of the 'undeserving poor'.⁴¹ Our review of local NHS plans
35 revealed that systems focused more on people with learning difficulties and autism, but less
36 so on undocumented migrants, people who are transgender or those with justice service
37 involvement.¹² This creates inequalities within inequalities.
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41 Inequalities must be framed and measured to include both healthcare (e.g. risk factor
42 management, access, diagnosis, treatment, experience) and health outcome (e.g. morbidity
43 and mortality) inequalities (see Figure 1). Key components across the spectrum of health and
44 care include the distribution of health system resources (namely funding, workforce and
45 research distribution and training), access to and quality of healthcare, major drivers of
46 mortality and morbidity (e.g. cardiovascular disease, respiratory disease, cancer, mental
47 health and musculoskeletal conditions) and conditions which are intrinsically associated with
48 inequalities (such as drug and alcohol abuse).
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51 Fig 1. Unpacking health inequalities
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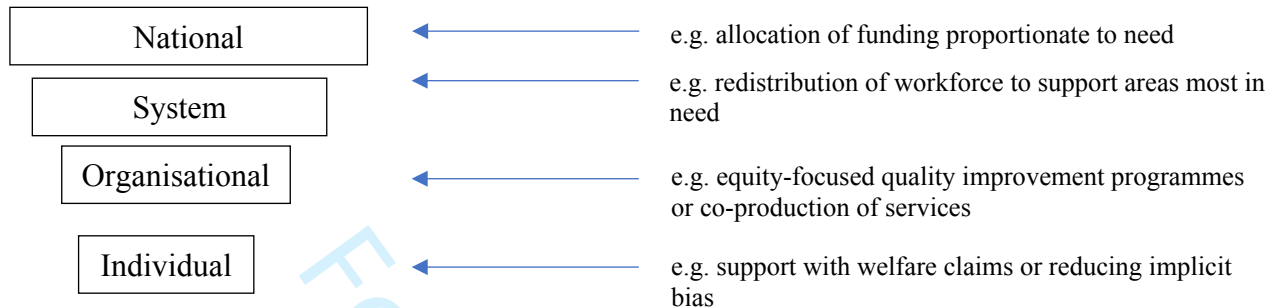
Framing should avoid language which is stigmatising or shaming. Smith and colleagues describe a paradox where people recognise that health is determined by social factors and acknowledged socio-economic inequalities in society, but are reluctant to acknowledge the resulting health inequalities.⁴² The authors suggest this paradox arises because individuals do not want the place in which they live to be stigmatised, shamed, or have negative or derogatory connotations, which may have negative impacts on their employment opportunities or family.⁴³ Other studies have found that the idea of socio-economic health inequalities can be a source of stress for residents.^{44,45}

Building the long-term organisational change

Many health inequalities have arisen over decades and even centuries, operating across generations and communities, due to long-standing imbalances in the social determinants of health. It is noteworthy that the north-south pattern of deaths from the Spanish Flu pandemic of 1918, almost exactly mirrors the distributions of COVID-19 deaths over a century later⁴⁶. New manifestations of inequalities emerge overtime, often with the promise of solutions and enthusiasms from new technologies. Previously this was the offer of screening, known to be taken up preferentially by more advantaged in society, and more recently in access to digital healthcare services with clear differential access.⁴⁷ In light of the plethora of existing and emerging inequalities, many feel a moral duty to 'do something', including investments in actions that lack a strong evidence base⁴⁸ or sustainability, such as social prescribing or hospitals acting as anchor institutions. It is important therefore for the NHS to resist the temptation to reach for such short-term actions at the expense of focusing on the long-term

organisational change required for sustained and evidenced-base action. With the formation Integrated Care Systems in the NHS in England we have the opportunity to ensure an equity perspective is adopted from the start, maximising the opportunities of integrated working across health and social care. However, we need inequalities actions at all levels of healthcare, including national, system, organisation and individual (see Figure 2).

Fig 2. Levels of health inequalities actions



Much health data, particularly within hospitals, is not presented by socio-economic group, geographical disadvantage or ethnicity. The NHS Eight Urgent Actions to Address Inequalities aims to improve ethnicity recording.²⁴ More upskilling is needed to help healthcare analysts undertake equity analyses to explore the difference between groups, adjusting for age and gender where appropriate. Equity perspectives are still rarely considered in healthcare quality improvement programmes, clinical audits, service evaluation or adverse events investigation. For example, hospital-based quality improvement programmes should consider if the services changes improve quality of care across socio-economic groups and ethnicity equally. Adverse event investigations should include an exploration how healthcare supported (or not) patients who are disadvantaged, for example due to poor health literacy or social support, interacted with services.

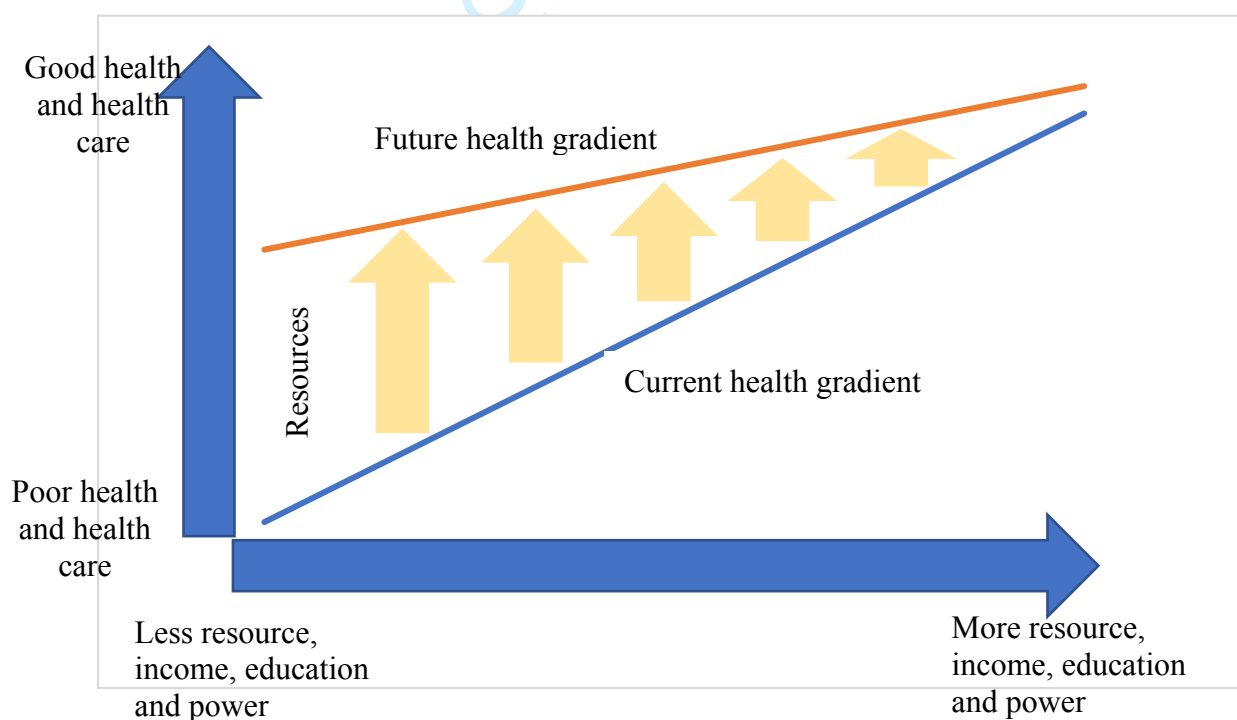
Previous research suggests that equity-focused processes can support healthcare organisations, their teams and individuals within these to address inequalities.⁴⁹ Health Inequalities Impact Assessment is a process of exploring and mitigating the impacts of decisions on inequalities during decision making. Sadare and colleagues found that Health Inequalities Impact Assessment, if undertaken a meaningful way, can be a catalyst for equity-focused organisational change.⁴⁹ These could be used by clinical directors and hospital leaders to ensure that secondary care services do not increase inequalities.

Applied research has an vital role to play in exploring the distributional effects of interventions across disadvantaged groups and generating evidence of what works to reduce inequalities.^{50,51} The evidence produced by current research poorly represents those who are most disadvantaged. The SCHOPHR principles call for co-produced, transdisciplinary research to create and deliver targeted national and local solutions to reduce inequalities.³³ More research is needed to develop and understand the implementation of evidence-based solutions drawing upon disciplines such as geography, anthropology, sociology, economics and history. Research capacity and skills must be embedded in the organisations which emerge from the latest restructure to help them become learning systems.

Redistributing resources and power to prevent illness and promote health

Inequalities are caused by the unequal distribution of social determinants of health, public and private investment, public sector workforce, services and power (the ability of one section of society to control another).⁵² Without a fundamental change to how society can organise itself to address these, inequalities in health outcomes will persist. However, even within the way we organise ourselves currently and contrary to the sense that nothing can be done, there is evidence that the NHS can reduce inequalities. One example is an analysis of the increase of NHS resources to more deprived areas between 2001 and 2011, revealing a reduction in inequalities from causes amenable to healthcare.⁵³ This complements the principle of proportionate universalism, which states services should be accessible to all, but the intensity of the service should be proportionate to need with the most disadvantaged receiving more resources (see Figure 3).¹⁴ Whilst existing national NHS allocation formulae are weighted for deprivation, evidence suggests they do not go far enough⁵⁴ - and in England the weighting was reduced after the 2011 Act.

Fig. 3 Distributing resources proportionate to need



Beyond specific healthcare system evidence, there is also good evidence that cross government action can reduce inequalities.^{22,23} Over the last couple of decades there has been a natural experiment at a national scale. The UK government implemented a cross-government health inequalities programme and strategy from 2000 to 2010. Prior to the start of the programme the difference in life expectancy between the most deprived areas and the rest of England was increasing by 0.57 months per year for males and 0.30 months per year for females.²² The strategy reversed these trends with the gap in life expectancy reducing by 0.91 months per year for men and 0.50 months per year for women. Inequalities in the infant mortality rate (IMR) also decreased.²³ However, since the end of the strategy and the implementation of austerity, the inequality gap widened again by a similar amount to before and there is now evidence of increasing inequalities in IMR associated with rising rates of child poverty.²³ Key to the programme was a redistribution of funding, services and power to

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3 poorer areas, with regeneration initiatives, Sure Start Centres to support early years childcare,
4 increased NHS funding allocations, introduction of national minimum wage, more generous
5 tax and benefit changes targeted at child poverty and targeted services in the most deprived
6 local authorities. Unfortunately, detailed independent evaluation was not embedded or
7 undertaken, and therefore the specific factors, either individually or collectively, which
8 contributed to the observed narrowing inequalities gap remain unknown.
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11 The importance of prevention and health promotion has been highlighted in several key
12 documents.^{24,34} The irony is that the under the Health and Social Care Act public health was
13 taken out of the NHS, but the current NHS Long Term Plan prioritises prevention. Greater
14 clarity is needed to ensure that the manner in which this emphasis is implemented does not
15 unintentionally widen the gap.^{55,56} For example, those with the resources and capabilities to
16 benefit from an untargeted physical activity campaign have been and already are the more
17 affluent groups with financial resources, health literacy and employment flexibility. This is
18 also replicated within our research programmes and recruitment which in many clinical
19 research spheres do not represent diverse and disadvantaged communities. Policy makers
20 should avoid the temptation to think that unhealthy lifestyles in people living in poorer areas
21 arise because of a lack of knowledge or motivation and that the solution is information
22 campaigns.^{52,57} Decades of research reaching has demonstrated again and again that people,
23 whether from poor or rich backgrounds, understand the determinants of health and have
24 logical reasons for unhealthy choices.⁵⁷ For example, Graham found that pregnant women on
25 low incomes still found money to buy cigarettes because smoking was the one opportunity in
26 the day to do something for themselves in the context of very challenging life
27 circumstances.⁵⁸ More recently, Thirlway found that smoking cessation was shaped by (lack
28 of) social mobility.⁵⁹ To prevent illness and promote health we must break down the power
29 hierarchies which suggest that one part of society knows what is best for another and get
30 alongside people to understand why they act the way they do, treating them as experts in their
31 lived experience, co-designing solutions⁶⁰ as equal partners and advocating for the wider
32 societal changes needed to address the social and economic context of inequality.
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39 **Conclusion**

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41 We all have an ethical and moral imperative to respond to the rapid proliferation of existing
42 inequalities. Simultaneously healthcare and public health organisations are being re-
43 structured in England. We argue that the concept of health inequalities needs to be reframed
44 to acknowledge the breadth of health and care inequalities with non-stigmatising language to
45 ensure a systematic approach to the problem. A focus on building long-term equity-
46 orientated organisational change in the NHS is urgently needed. At the core of any action
47 should be the fundamental redistributions of resources, funding, workforce, services and
48 power. If we do not act now in light of these stark inequalities, then when?
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