

# A yw mynediad cyffredinol at asesiad o angen yn cael effaith ar iechyd plant ac anghydraddoldebau datblygiad: Cwmpas byr o'r llenyddiaeth

Lluniwyd gan Hannah Shaw, Prif Ddadansoddwr Tystiolaeth a Gwybodaeth a Dr Kirsty Little, Ymgynghorydd Iechyd y Cyhoedd, Iechyd Cyhoeddus Cymru. Mehefin 2022

Mae'r ddogfen hon yn rhoi trosolwg byr o ganfyddiadau chwiliad cwmpasu a gynhaliwyd gan y Gwasanaeth Tystiolaeth yn Iechyd Cyhoeddus Cymru i dynnu sylw at ffynonellau sy'n berthnasol i nodi a yw mynediad cyffredinol at asesiad o angen yn cael effaith ar anghydraddoldebau iechyd a datblygiad plant, gyda ffocws ar asesiadau o anghenion cymdeithasol mwy ffurfiol a gynhelir gan ymwelwyr iechyd os yn bosibl.

Roedd y gwaith cwmpasu cychwynnol yn archwilio mynediad cyffredinol at asesiad o angen (neu fecanwaith atgyfeirio) a'i effaith ar iechyd a datblygiad plant. Ategwyd y gwaith cwmpasu cychwynnol gan chwiliad mwy penodol yn edrych ar lenyddiaeth sy'n archwilio mynediad cyffredinol at asesiad o angen am wasanaethau lleferydd, iaith a chyfathrebu gan fod hon yn un agwedd ar well gwasanaethau ymwelwyr iechyd.

#### Cwestiwn adolygu

A yw mynediad cyffredinol at asesiad o angen yn effeithio ar anghydraddoldebau iechyd a datblygiad plant?

Neu

A yw mynediad cyffredinol at asesiad o angen am wasanaethau lleferydd, iaith a chyfathrebu yn effeithio ar anghydraddoldebau iechyd a datblygiad plant?

Cyfranogwyr Plant cyn-ysgol (rhwng 0 a 5 oed)	
Ymyrraeth / amlygiad	Asesiad cyffredinol o angen (mewn perthynas ag iechyd a datblygiad plant)
Cymhariaeth	Gofal arferol

Canlyniadau	Effaith ar iechyd a datblygiad plant Lleihad/effaith ar anghydraddoldebau iechyd plant	
Ystyriaethau Eraill yr Astudiaeth		
Dyddiad cyhoeddi: dim terfyn		
Adolygiadau syster	Adolygiadau systematig / adolygiadau llenyddiaeth / adroddiadau	

#### Ble wnaethoch chi chwilio?

Adnodd	Llwyddiant neu berthnasedd y broses adalw
Cochrane Library (chwiliad sylfaenol) https://www.cochranelibrary.com/cdsr/reviews	Wedi'i chwilio, dim wedi'i ganfod
NICE (chwiliad sylfaenol) https://www.nice.org.uk/guidance	Wedi'i chwilio, canlyniadau wedi'u canfod
Medline (chwiliad sylfaenol) https://dialog.proquest.com/professional/medlineprof?accountid=16678	Wedi'i chwilio, canlyniadau wedi'u canfod
Google Scholar (chwiliad sylfaenol) https://scholar.google.com/	Wedi'i chwilio, canlyniadau wedi'u canfod
Early Intervention Foundation (chwiliad sylfaenol) https://www.eif.org.uk	Wedi'i chwilio, canlyniadau wedi'u canfod

Ymgymerwyd hefyd â chwiliad ehangach o ffynonellau eilaidd a nodwyd.

#### • Pa dermau wnaethoch chi eu defnyddio?

- Cynhaliwyd chwiliad cychwynnol gan ddefnyddio cyfuniad o'r termau canlynol:
  - universal access
  - assessment of need
  - child health NEU child development
  - health inequalities
- Cynhaliwyd ail chwiliad hefyd ar Medline a Google Scholar gan ddefnyddio cyfuniad o'r termau canlynol:
  - assessment of need
  - systematic review



#### health inequalities

Yn ogystal â'r chwiliadau termau chwilio eang, cynhaliwyd chwiliad mwy penodol ar Medline ar 07/06/22 gan ddefnyddio'r strategaeth chwilio ganlynol:

Set	Termau
1	((Exp Child/) NEU (Exp Infant) NEU ((neonat* neu infan* neu pre- schooler* neu pre-schooler* neu under-five* neu p?ediatric*)))
2	(Exp child health services/ neu program* neu intervention*)
3	(health inequities) NEU (reduce inequalities) NEU (inequalities)
4	1 A 2 A 3

#### Crynodeb o erthyglau sy'n berthnasol i'ch pwnc?

Ymddengys mai cyfyngedig iawn yw'r dystiolaeth sy'n berthnasol i'r cwestiwn hwn. Amlinellodd y chwiliadau a gynhaliwyd ar Medline a Google Scholar nifer gyfyngedig iawn o adolygiadau systematig a allai fod yn berthnasol. Roedd yn ymddangos bod defnyddio'r term 'needs assessment' yn y strategaeth chwilio yn creu llawer o 'sŵn', felly cafodd ei dynnu o'r chwiliad manylach hwn. Dychwelodd y chwiliad mwy manwl ar Medline 1,901 o ganlyniadau, gyda 56 ohonynt yn adolygiadau systematig. Fodd bynnag, roedd erthyglau a oedd yn ymddangos yn berthnasol i ddechrau yn canolbwyntio'n gyffredinol ar wledydd incwm isel a chanolig, yn aml yn edrych yn benodol ar ymyriadau mamau neu famau newydd neu'n edrych ar anghydraddoldebau o ran cwmpas rhaglen (er enghraifft rhaglen frechu). Roedd y rhai a allai fod yn berthnasol i gyd-destun Cymru (gwledydd incwm uchel) yn edrych yn bennaf ar ganlyniadau rhieni yn hytrach na chanlyniadau plant neu heb fod yn berthnasol yn uniongyrchol i anghydraddoldebau neu asesiad o angen.

Yn ystod trafodaethau rhagarweiniol gyda rhanddeiliaid, nodwyd bod un cyfeiriad yn berthnasol (Wood, 2012). Mae trosolwg o'r astudiaeth gynradd hon ar gael yn nhabl 1. Cynhaliwyd proses olrhain dyfyniadau o'r astudiaeth hon gan ddefnyddio swyddogaeth Google Scholar mewn ymgais i nodi gwaith perthnasol pellach. Roedd Wood (2012) wedi'i ddyfynnu gan 22 o bapurau, ond yn anffodus, nid oedd yr un ohonynt yn berthnasol i'r cwestiwn cwmpasu hwn.

Cynhwyswyd pum adolygiad systematig yn y tabl echdynnu data (tabl 1) a chynhwyswyd pum astudiaeth gynradd fel rhai a allai fod yn berthnasol i'r cwestiwn. Fel arfer byddai cwmpasu yn canolbwyntio ar dystiolaeth eilaidd o amgylch pwnc, ond ymgymerwyd â chwiliad ychwanegol a oedd yn cynnwys ymchwil sylfaenol er mwyn sicrhau bod unrhyw dystiolaeth berthnasol yn cael ei nodi.

O'r pum adolygiad systematig, cynhwyswyd un prosiect ymchwil doethurol yn edrych ar ddyluniad a gweithrediad ymyrraeth ymweliadau cartref amlsector yn Sweden (Barnoza, 2022). Er nad oedd yn adolygiad systematig, roedd hwn yn gysylltiedig â nifer o erthyglau cyhoeddedig (a amlygir yn nhabl 1) a allai fod o ddiddordeb. Roedd



dau o'r adolygiadau systematig yn canolbwyntio ar ymyriadau cyffredinol, roedd dau yn targedu teuluoedd difreintiedig ac roedd un yn edrych ar ymyriadau cyffredinoliaeth gymesur ac wedi'i thargedu i bawb (Morrison, 2014). Ychydig iawn oedd i'w gweld yn cynnwys elfennau o atgyfeirio neu asesu angen.

Cynhaliwyd y pum astudiaeth gynradd yn Awstralia, Canada, UDA a dwy o'r DU. Roedd y canlyniadau'n cynnwys tebygolrwydd y bydd rhywun yn cael ei roi mewn gofal a chael imiwneiddiadau, darllen, mamau'n ysmygu, cam-drin ac esgeuluso plant, genedigaethau i fenywod sengl, a menywod incwm isel a chynyddu mynediad at wasanaethau neu eu cwmpas.

 Rhestrwch unrhyw adolygiadau y daethoch o hyd iddynt gyda dolen i'r testun llawn os yw ar gael

Mae ffynonellau a allai fod yn berthnasol neu'n ddiddorol a nodwyd yn y chwiliad wedi'u hamlinellu yn nhabl 1 a darperir dolen i'r ffynhonnell. Mae'r rhain wedi'u categoreiddio yn dystiolaeth eilaidd ac yn astudiaethau cynradd.

Sylwer, ni chynhaliwyd unrhyw arfarniad ansawdd felly ni all y Gwasanaeth Tystiolaeth wneud sylwadau ar ansawdd methodolegol y ffynonellau a amlinellir yn nhabl 1. Os bwriedir defnyddio unrhyw bapur, a fyddech cystal â chynnal asesiad o ansawdd ac ystyried cyffredinoli'r canfyddiadau i'ch cyd-destun.



Tabl 1:	Ffynonellau	eilaidd o	ddiddordeb	wedi'u nodi
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## Adolygiadau systematig

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Cyfeirnod	Nod/Cwestiwn	Crynodeb	Sylwadau
Barnoza (2022) Home visiting for a better start in life: Studies of an intervention to promote health equity in a socioeconomically disadvantaged area of Sweden. Openarchive.Ki.se  https://openarchive.ki .se/xmlui/bitstream/h andle/10616/47891/T hesis Madelene Bar boza.pdf?sequence= 1&isAllowed=y	The aim of this doctoral research project was to increase knowledge on the design and implementation of a multisectoral, early childhood home visiting intervention, developed to promote health equity in a socioeconomically disadvantaged setting in Sweden.	Qualitative research methods were applied to produce an initial mapping of the intervention, along with semi-structured interviews with managers and other key actors to create a final version of core components and programme theory of the intervention.  The study findings included the identification of five pathways from different situations of low control in the families' lives, that could negatively affect the health and wellbeing of parents and children, and cause health inequities. They regarded instability and insecurity, such as financial and housing; crowded and poor housing conditions; social isolation; restricted access to services; and experiences of segregation. The event of the Covid-19 pandemic was observed to have added negative influence over the families in multiple ways. Persons interviewed considered that the intervention had capacity to create better conditions towards health equity, but also recognised the influence of structural determinants. The intervention was understood to be one part of a larger systemic effort needed to reduce the health gap.	There appears to be a number of published articles linked to this work:  Barboza et al. (2022) Towards health equity: Core components of an extended home visiting intervention in disadvantaged areas of Sweden. BMC Public Health. 22 (1091) https://bmcpublichealth.biomedcentral.com/articles/10.1186/s12889-022-13492-3  Barboza et al (2021) Contributions of Preventive Social Services in Early Childhood Home Visiting in a Disadvantaged Area of Sweden: The Practice of the Parental Advisor. Qual Health Res. 1049732321994538https://journals.sagepub.com/doi/10.1177/1049732321994538  Barboza et al. (2018) A better start for health equity? Qualitative content analysis of



WALLS	1 114165		Auroudiad Cwiffpast
			implementation of extended postnatal home visiting in a disadvantaged area in Sweden. Int J Equity Health. Apr 10;17(1):42. https://pubmed.ncbi.nlm.nih.gov/29636071/
Meyrick (2016) A systematic review of the effectiveness of universal health visitor-led child health clinics. Journal of Health visiting. 4 (9). pp. 462-471. ISSN 2050-8719 Available from: http://eprints.uwe.ac.uk/29031	This systematic review was undertaken to assess how effectively health visitor led child health clinics ('baby clinics') contribute to the promotion of pre-school child health and the reduction of health inequalities.	Despite the widespread presence of baby clinics across the UK, there is little published research about the service model, its purpose or effectiveness. Thematic analysis was used to organise and interpret the data of 24 included studies. Although the review presents a synthesis of research over the last 30 years, there is a lack of evaluative research about the structure, process and outcomes of baby clinics, which makes it impossible to draw any conclusions about the effectiveness of the service offer. Findings suggest research on the value and purpose of baby clinics is now needed and whilst good evaluation studies with clear outcome measures are sought, it is clear that the theoretical processes through which positive outcomes are promoted need to be established first.	Included studies may be of interest
Molloy et al. (2021) Systematic Review: Effects of sustained nurse home visiting programs for disadvantaged mothers and children. JAN. 77:147-161. https://onlinelibrary.w iley.com/doi/epdf/10. 1111/jan.14576	To systematically evaluate published experimental studies of sustained nurse home visiting (SNHV) programs. This review summarizes the evidence and identifies gaps in the literature to inform practice, policy, and future research.	Results: From the 30 include studies, seven specific SNHV programs were identified. Each demonstrated evidence of a positive statistical effect on at least one child or maternal outcome.  Conclusion: Sustained nurse home visiting programs benefit disadvantaged families, though effects vary across outcomes and subgroups. Further research is needed to discern the critical components of effective programs.	This may not be looking at Health Visitors as such and very few of the included programmes included referral
Morrison et al (2014) Systematic review of parenting interventions in European countries	The objective of this systematic review was to identify interventions during early childhood in countries from the World Health	Methods: A systematic review was carried out adhering to the PRISMA guidelines using an electronic search strategy in PubMed and the International Bibliography of the Social Sciences [IBSS] databases. A further search was performed in the grey literature. Interventions were included only if they	

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social inequalities in children's health and	Organisation European Region in 1999–2013 which reduced inequalities in children's health and development	were aimed at children or their parents and had been evaluated.  Results: The review identified 23 universal, targeted and proportionate universalism interventions, programs and services in total. All but 1 intervention-delivered in Swedenwere carried out in the United Kingdom and the Republic of Ireland. These aimed to improve parenting abilities, but also had additional components such as: day-care provision, improving housing conditions and speech or psychological therapies. Programmes offering intensive support, information and home visits using a psycho-educational approach and aimed at developing parent's and children's skills showed more favourable outcomes. These were parenting behaviours, overall children's health and higher level of fine motor skills and cognitive functioning. Child injuries and abuse were also reduced. Two interventions were universally proportionate and all others were aimed at a specific target population. Conclusions: Interventions with better outcomes and a higher level of evidence combined workshops and educational programmes for both parents and children beginning during early pregnancy and included home visits by specialised staff. Further evaluation and publication of early years interventions should be carried out also within a wider range of countries than just the UK and Ireland	
Effectiveness of home visiting programs on child outcomes: a systematic review.  BMC Public Health.	The purpose of this paper is to systematically review the effectiveness of paraprofessional home-visiting programs on developmental and health outcomes of young children from disadvantaged families.	Results: Twenty-one studies that scored 13 or greater out of a total of 15 on the validity tool are the focus of this review. All studies were randomized controlled trials and most were conducted in the United States. Significant improvements to the development and health of young children as a result of a home-visiting program were noted for particular groups. These included: (a) prevention of child abuse in some cases, particularly when the intervention is initiated prenatally; (b) developmental benefits in relation to cognition and problem behaviours, and less consistently with language skills; and (c) reduced incidence of low birth weights and health problems in older children, and increased incidence of appropriate weight gain in early childhood. However, overall home-	

visiting programs are limited in improving the lives of socially	
high-risk children who live in disadvantaged families.	
<b>Conclusions:</b> Home visitation by paraprofessionals is an	
intervention that holds promise for socially high-risk families	
with young children. Initiating the intervention prenatally and	
increasing the number of visits improves development and	
health outcomes for particular groups of children. Future	
studies should consider what dose of the intervention is most	
beneficial and address retention issues.	

## Astudiaethau/Gwerthusiadau Sylfaenol

Cyfeirnod	Nod/Cwestiwn	Crynodeb:	Sylwadau
Chartier et al. (2017) Families First Home Visiting programme reduces population- level child health and social inequities. Journal of Epidemiology and Community Health. 72: 1 https://jech.bmj.com/ content/72/1/47	To establish whether Families First, a home visiting programme in Manitoba, Canada, decreased population-level inequities in children being taken into care of child welfare and receiving complete childhood immunisations.	Methods De-identified administrative health and social services data for children born 2003–2009 in Manitoba were linked to home visiting programme data. Programme eligibility was determined by screening for family risk factors. We compared probabilities of being taken into care and receiving immunisations among programme children (n=4575), eligible children who did not receive the programme (n=5186) and the general child population (n=87 897) and tested inequities using differences of risk differences (DRDs) and ratios of risk ratios (RRRs).  Results Programme children were less likely to be taken into care (probability (95% CI) at age 1, programme 7.5 (7.0 to 8.0) vs non-programme 10.0 (10.0 to 10.1)) and more likely to receive complete immunisations (probability at age 1, programme 77.3 (76.5 to 78.0) vs non-programme 73.2 (72.1 to 74.3)). Inequities between programme children and the general population were reduced for both outcomes (being taken into care at age 1, DRD -2.5 (-3.7 to 1.2) and RRR 0.8 (0.7 to 0.9); complete immunisation at age 1, DRD 4.1 (2.2 to 6.0) and RRR 1.1 (1.0 to 1.1)); these inequities were also significantly reduced at age 2.	Outcomes may not be directly relevant

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Maharaj et al. (2012)	To demonstrate that	Conclusion Home visiting programmes should be recognised as effective strategies for improving child outcomes and reducing population-level health and social inequities  Methods: Long-term service reconfiguration and health	Potentially reducing health
Tackling child health inequalities due to deprivation: using health equity audit to improve and monitor access to a community paediatric service. Child: care, health and development. doi:10.1111/cch.120 11 https://onlinelibrary.wiley.com/doi/epdf/10.1111/cch.12011	community paediatrics can contribute to reduction of health inequalities by providing services that are accessible to and preferentially used by children whose health is likely to be affected by deprivation.  To provide a template for others to improve and monitor equity in their services.	equity audit. We used routinely collected activity data and the Indices of Multiple Deprivation to construct equity profiles of the children using our service and compared these with the profile of the population aged 0–16 years in the geographical area covered by the service. <b>Results:</b> The new patient contact rate for the most deprived children in the population was more than three times that of the least deprived [odds ratio (OR) 3.29, 95% confidence interval (CI) 2.76–3.93]. Deprived children were more than twice as likely to require multi-agency meetings as part of their medical care (OR 2.28, 95% CI 1.94–2.69). Seventy per cent (3693/5312) of our total contacts were with children in the two most deprived quintiles. There was a marked socio-economic gradient in all types of contact. <b>Conclusions:</b> The model of care used by our community paediatric service successfully engages deprived families, thereby reducing health inequalities due to poor access. Key features are multi-agency working, removing barriers to access, raising staff awareness and use of health equity audit. Our findings provide support for tackling health inequalities via health services that are available to all, but capable of responding proportionately according to level of need, a model recently described as proportionate universalism.	inequalities by increasing access to the most deprived using a community paediatric service
Molloy et al. (2019) Potential of 'stacking' early childhood	This study examined the association between exposure to a combination of five	Data from the nationally representative birth cohort (n=5107) of the Longitudinal Study of Australian Children were utilised. Risk and exposure measures across five services from 0 to 5	Australian intervention, so may not be generalisable
interventions to	evidence-based services from	years were assessed: antenatal care, nurse home-visiting,	
reduce inequities in	0 to 5 years on children's	early childhood education and care, parenting programme	
learning outcomes. J	reading at 8–9 years.	and the early years of school. Children's reading at 8–9 years	
Epidemiol		was measured using a standardised direct assessment.	
Community Health;73:1078-		Linear regression analyses examined the cumulative effect of five services on reading. Interaction terms were examined to	
1086.		determine if the relationship differed as a function of level of	
.000.		acternation the relationering amorea as a fariotion of level of	<u> </u>

		disadvantage. A cumulative benefit effect of participation in more services and a cumulative risk effect when exposed to more risks was found. Each additional service that the child attended was associated with an increase in reading scores (b=9.16, 95% Cl=5.58 to 12.75). Conversely, each additional risk that the child was exposed to was associated with a decrease in reading skills (b=-14.03, 95% Cl=-16.61 to -11.44). Effects were similar for disadvantaged and non-disadvantaged children. This study supports the potential value of 'stacking' early interventions across the early years	
Storey-Kuyl et al. (2015) Focusing "upstream" to Address Maternal and Child Health Inequities: Two Local Health Departments in Washington State Make the Transition. Maternal & Child Health Journal. 19:2329–2335 DOI 10.1007/s10995-015-1756-4 https://web.p.ebscohost.com/ehost/pdfviewer/pdfviewer?vid=0 &sid=505e6b59-cf5e-4b7f-b6dd-a9c70e7d5efb%40redis	This paper describes the innovative process and strategies these Local Health Departments used in applying existing Maternal and Child Health funding in new ways	of a child's life to maximise impacts on child outcomes.  This paper describes the innovative process and strategies these LHDs used in applying existing MCH funding in new ways. The pilot communities selected in both jurisdictions for the initial transition were communities experiencing disproportionately high rates of maternal smoking, child abuse and neglect, births to single women, and low-income women on Medicaid. Available evidence suggested that the reach and effectiveness of existing, individual-level MCH approaches were not adequately improving these indicators in these communities. Using a population-based approach that addressed policy factors as well as social, organizational, and behavioural change; both counties developed neighbourhood level initiatives directed at the root causes of health inequities. The approach included developing meaningful community partnerships, capacity building, and creation of a shared vision for community change. Both LHDs and their partners engaged county-wide groups in neighbourhood selection, jointly established priority intervention areas, and actively engaged communities focused on reducing specific health inequities. With existing funding resources, the two county LHDs dramatically changed their practice to better address underlying conditions that threaten MCH. Early successes from these pilots have contributed to important local and state system-level changes in MCH programming as well as effective community-level efforts to reduce health inequities.	US intervention, so may not be generalisable

Wood et al. (2012)
Trends in the
coverage of
'universal' child
health reviews:
observational study
using routinely
available data. BMJ
Open. 2:e000759.
doi:10.1136/
bmjopen-2011000759
https://bmjopen.bmj.c
om/content/bmjopen/
2/2/e000759.full.pdf

This study assessed the coverage of universal child health reviews, with an emphasis on trends over time and inequalities in coverage by deprivation.

- What proportion of children actually receives the universal child health reviews?
- How does review coverage vary by deprivation?
- How has (inequality in)
  review coverage changed
  over time, in particular
  before and after the
  reduction in number of
  reviews offered?

Design: Assessment of the coverage of child health reviews by area-based deprivation using routinely available data. **Setting:** Scotland. Participants: Two cohorts of around 40 000 children each. The cohorts were born in 1998/1999 and 2007/2008 and eligible for the previous programme of five and the current programme of two preschool reviews. respectively. Outcome measures: Coverage of the specified child health reviews for the whole cohorts and by deprivation. **Results:** Coverage of the 10-day review is high (99%), but it progressively declines for reviews at older ages (86% for the 39-42 month review). Coverage is lower in children living in the most deprived areas for all reviews, and the discrepancy progressively increases for reviews at older ages (78% and 92% coverage for the 39-42 month review in most and least deprived groups). Coverage has been stable over time: it has not increased for the remaining reviews after reduction in the number of reviews provided. **Conclusions:** The inverse care law continues to operate in relation to 'universal' child health reviews. Equitable uptake of reviews is important to ensure maximum likely impact on inequalities in children's outcomes

Looks at equitable uptake

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www.nationalarchives.gov.uk/doc/open-government-licence/version/3/

ar yr amod y gwneir hynny'n gywir ac nad yw'n cael ei ddefnyddio mewn cyddestun camarweiniol.

Mae angen datgan cydnabyddiaeth i Ymddiriedolaeth GIG lechyd Cyhoeddus Cymru.

Ymddiriedolaeth GIG lechyd Cyhoeddus Cymru sy'n berchen ar yr hawlfraint o ran y trefniant teipograffyddol, y dyluniad a'r cynllun.

ISBN: 978-1-83766-122-0