



UK Health  
Security  
Agency

**NHS**

**Aduma ho Akwankyerε**

**Wε afe baako**



**Aduma ho nhyehεε a a εfiri Ogyefuo 2022**

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**i**mmunisation

the safest way to protect your child

# Mmofraberem aduma dwumadie

**Kae** se aduma nwoma kɔkɔ no beba bere a  
woreba w'apointemente no.



Saa nkrataawa yi bi wo ho a efiri wo  
kleneke anaase wo dokota seegyiri  
Afei nso hwe [www.nhs.uk/vaccinations](http://www.nhs.uk/vaccinations)

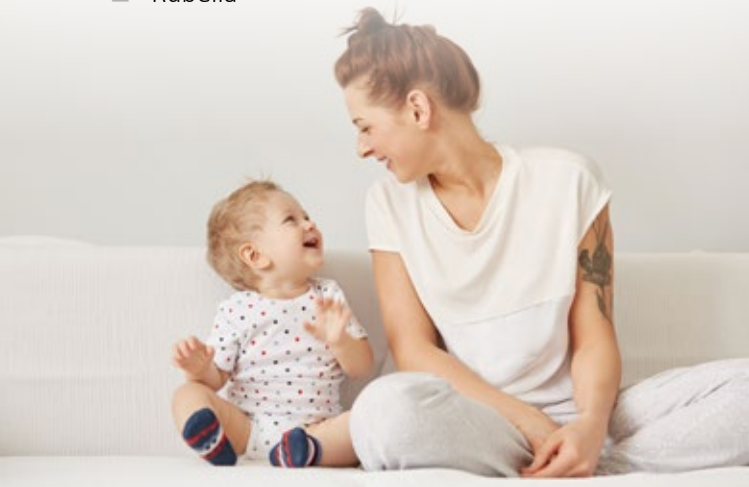
Saa krataawa wei kyere aduma ho nhye-  
hyee a efiri Ogyefuo 2022

# Tɔfabɔ

## Aduro ben na wɔde bema me no a wadi afe baako no?

Wo ba no ba afe baako paneɛwɔ nsrahwe no a, yeɛwɔ no mpanee 4 a deɛ eka ho bi ne:

- Wɔn **MenB** busta aduro
- A eye **Hib/MenC** aduro a eko tia:
  - Hib (Haemophilus influenzae ɔfa b), ne
  - meningococcal kuo C yareɛ (MenC)
- A eye **PCV13** busta aduro a ekotia:
  - Pneumococcal yareɛ a pneumococcal yaremooa no bi na wɔde ba
- Wɔn **MMR** a edi kan a ekotia
  - Ntenkyem
  - Mumps
  - Rubella



# Aduma berε a wadi afe baako

**Ban a wɔɔ de kotia Hib, meningococcal akuo B ne C yareε, pneumococcal yareε e, ntɛnkyεm, mumps ne rubella**

## **Deɛn ne Hib?**

Hib yε yareε bi a εbetumi akɔfa nyarewa atitire bi te sε meningitis (sε biribi εsesa adwene no mu no bεhono), septicaemia (mogya mupɔison) ne nimonia ne titire wɔ nkwadaa mu.

Yεfrε Hib/MenC aduro no bi Menitorix, wobɛtumi ahwε ho nsem krataawa no wɔ

[www.medicines.org.uk/emc/product/167/pil](http://www.medicines.org.uk/emc/product/167/pil).

## **Deɛn ne meningococcal yareε no?**

Meningococcal yareε no yε yareε bi a εyε hu yie a εbetumi akɔfa meningitis ne spticaemia abre mmɔfra ne wɔn a wɔnnyinie.

Meningococcal yareε dodoɔ no ara a εwɔ UK seesei no mu dodoɔ no ara firi no Kuo B meningococcal yaremmoawa (MenB), berε meningococcal C (MenC) deε wonnta nhunu wɔ mmɔfra ne mmabunu a wɔawɔ panεε a εkotia MenC no mu.

Yεfrε MenB aduro no Bexsero, wobɛtumi ahunu Yarefoɔ ho Nsem Krataawa no wɔ

[www.medicines.org.uk/emc/product/5168/pil](http://www.medicines.org.uk/emc/product/5168/pil).

## **Aduro ben nawɔde beɔdi dwuma?**

Wɔbeɔka Hib/MenC abom na wɔde ama wo ba no na afei nso wɔama no MenB busta aduro no bi. Wɔde saa nnuro yi bewɔ ne sre ho anaase n'abati.

## **Aden nti na me ba no hia busa nnuro no?**

Busta nnuro no boa bɔ de ka nnuro a wo ba no adi kan awɔ no ho. Mpanee a wɔwɔ no mmɔfraberemu no, bere kɔ so no enye adwuma bio. Busta no twe banbɔ no mu kɔ akyiri.

## **Hib/MenC ne MenB nnuro no bewɔ nsunsuansoɔ bi?**

Baabi a wɔwɔ wo ba no panee no beye kɔ, eho behono anaase ebepagya. Mmɔfra a wɔwɔ a panee no mu beye se efa na wɔfee na wɔya fiva wɔ paneewɔ no akyi. Wobetumi anya nsem pii afiri wo Gp, Pratisse neese ne apomuden nsrahweni no ho.



## Deen ne pneumococcal yaree no?

Pneumococcal ye yaree ahodoɔ a enye nna no mu baako a meningitis yaremmoda no na wɔkɔfa bre mmɔfra nanso etumi kɔfa septicaemia, nimoniam, aso yaree (otitis media) ne yaree ahodoɔ a eye hu ba. Pneumococcal yaremmoda no beboro 90 na wɔwɔ ho.

## Aduro be na wɔde beɗi dwuma?

Aduro a wɔde beɗi dwuma ne PCV13 (pneumococcal conjugate aduro) a ebo ban kotia pneumococcal ahodoɔ 13 a etaa kɔfa pneumococcal yaree no bre mmɔfra. Wɔde aduro no bewo n'ataaso anaa abatire bere a wɔako nsrahwe bere koro no ara akoma Hib/MenC ne MenB nnuro.

## PVC aduro no benya nsunsuansoɔ bɔne bi anaa?

Yefa mmɔfra 10 biara a wɔwɔwɔ wɔn panee no a, wɔn mu 1 anaa 2 dee behono, ebeye kɔɔ anaa wɔbete yaw anaa wɔbenya fiva kakra bi. PVC aduro no wɔfre preventar 13, wɔbetumi ahwe yarefoɔ ho nsem krataa wɔ

[www.medicines.org.uk/emc/product/453/pil](http://www.medicines.org.uk/emc/product/453/pil).

## Deen ne ntenkyem

Ntenkyem yaremmodawa a esan na ede ba. Obiara a onya bi biara no nya fiva a ano ye den, nsaawa gu no na mpen pii no onnya ahomeka. Nsusuansoɔ a edi ntenkyem akyi ne, koko mu yaree, etwere "fits", (seizures), yaree a eka adwene no "encephalitis", ne adwene a asee. Eduro dee emu ye den a ntenkyem tumi kum.

## Deen ne mumps?

Mumps yε yaremmoawa bi a εtumi ma obi nya fiva, tipaεε, na εyε ya, εma anim honhono, εkɔn, ne apantan. Etumi ma asosi koraa, meningitis a atu atese ne adwene a εtumi honhono "encephalitis".

## Deen ne rubella?

Rubella "German ntenkyem" yε yareε bi a yaremmoawa na εde ba. Wɔ mmɔfra mu no ano nyε den bere a ani nnasɔɔ. Nanso, rubella wɔ nyinsen mu no yε adeε a εyε hu ma mmɔfra a wɔnnya nwoo wɔn. Etumi fura wɔn ani, wɔnte asem, εsεε wɔakoma ne wɔn adwene. Saa yareε yi yε congenital rubella yareε "syndrom" (CRS).

## Deen ne MMR aduro?

Deε εwɔ mu no yε yaremmoawa a εde ntenkyem, mumps ne rubella ba a εnkwa wɔ wɔn mu nanso wɔn ahɔɔden no wɔ fam. Esiane sε wɔama yaremmoawa no ayε mmere no nti, nripa a wɔanya aduro no bi no ntumi mfa nsan afoforɔ. Wɔ UK man mu no yε MMR aduro no 2. Ne yε adwuma pa ara, baako wɔ porcine gelatine na baako nso nni bi. Sε wope sε wo ba no nya porcine gelatine aduro no kwa a wo ne wo yarehwεfoɔ a ɔyε adwuma "practice nurse anaa GP" no ntwetwe ho nkɔmmɔ.

## Sen ne bere ben na wɔde aduro no ma?

Wɔde aduro no wɔ n'ataaso anaa abatire. Wɔde ma bere a wadi afe baako bere a ahɔɔden a εko tia nyarewa a abɔfra no nya firii wɔn maame hɔ no ayera akyi. Aduro a εtɔ so mmienu no εwɔ sε wɔde ma bio ansa w'abɔfra no afiri sukuu aseε wɔbeye mfee 3 ne abosome 4 mu.

## **ƛen na MMR aduro no ye nam si fa?**

MMR aduro no atumi afa ato ne ho so apopa saa nyarewa 3 yi mmofra nkumaa mu firi bere a woda no adi wo UK man mu wo 1988.

## **So MMR aduro no benya nsusuanso bone bi anaa?**

Yaremooawa ahodo 3 a ewo aduro no mu ye adwuma wo mmere ahodo mu na etumi de nsusuanso yi mu bi ba wo aduro edi kan no akyi.

- Woma aduro no nna 6 kosi 10 akyi a, ntenkyem no fa aduro bi firi ase se eye adwuma, beye se mmofra 10 no mu baako benya fiva na ebinom nso ntenkyem nsawa kakra agu won na wofiri won aduanedie so kakra.
- Mmofra 1,000 no a woma won nnuro no won baako esoro tumi ka no a fiva na ede ba. Yefre wei atiridii a ema obi ho popo "febrile convulsion" Bio, mmofra a wonwo ntenkyem aduro a wonya ntenkyem no, akwanya wo ho mprensa a wotumi nya etwere yaree no.
- Nnawotwe 3 akyi wo MMR aduroma mu no, mumps no fa aduro bi firi ase se eye adwuma, mmofra no bi nya mumps ho mpopoe "fiva ne ntini a ehonhono"

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**MMR ye hobamm sene biribiara**  
**a Wode bebo ba no ho ban afiri**  
ntenkyem, mumps ne rubella.

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- Nokware ne se, mmofra no nsawa kakra bi gu won na etutu akuro ye twa wo won ho wo nnawotwe 6 akyi bere a wɔama won aduro no. Mpen pii no ntenkyem anaa rubella no fa aduro no na ede ba. Se wohunu nsisiwa bi sei nom a, fa wo ba no ko hunu dokota na onhwɛ. Wo dokotani no bekyere wo sɛdeɛ wobɛtumi ahwe nsawa no ne kwan a wobɛbo wo ba ne ban wo daakye mu.
- Mmofra kakra bi a woboro baako wo mmofra opepe no mu na wɔhonhono ne wɔadwene a ehonhono “encephalitis” bere a wɔanya MMR aduro no akyi. Se abofra no nya ntenkyem a, se otumi nya adwene a ehonhono no ye firi baako wo 200 ne baako wo 5,000.

### **Na se kosua ye chaw ma ne ba no e?**

Wotumi de MMR aduro no ma mmofra a se wodi kosua a wɔnya chaw a emu ye den ma no ye yie “anaphylactic reaction”. Se wowo chaw bi a wo ne obi a osra woapɔmuden, oyarehwɛfoɔ “practice nurse” anaa wo dokotani nkasa.

### **MMR aduro no gelatine wo mu anaa?**

Wo UK man mu no, yɛwo MMR aduro no 2 a eyɛ adwuma yie pa ara. Baako wo gelatine na baako nso nni bi | Se wope se wogyɛ aduro no a enni porcine gelatine no, wo ne wo oyarehwɛfoɔ “practice nurse” anaa GP nni ho nkɔmmɔ. Wotumi hwe MMR aduro yarefoɔ ho asem krataa wo:

#### **Priorix:**

[www.medicines.org.uk/emc/product/1159/pil](http://www.medicines.org.uk/emc/product/1159/pil)

#### **MMRVAXPRO:**

[www.medicines.org.uk/emc/product/6307/pil](http://www.medicines.org.uk/emc/product/6307/pil)

## Hwε meningitis ne septicaemia kwan

Meningitis ne septicaemia nyinaa yε adee a εyε hu. Eho hia sε wohyε nsenkyerene ne ho mpopoεε na wohunu dee wobeyε sε wohunu wɔn a.

Mpopoεε a wohunu wɔ meningitis ne septicaemia ho no tumi yε atiridii anaa papu “ fiva,afeεafeε, dee εde abufuo ba ne εbrε”.

Bio, wɔn a meningitis anaa septicaemia tumi yare dee εmu yε den wɔ dɔnhwere ahodoɔ bi mu, εti εhia sε wohunu nsenkyerene ne ho mpopoεε a εwɔ saa yareε yi mu.



## Deen ne meningitis

Meningitis ye nsaa yaree a eka nneema a wode akata adwene no ho. Yaremmoawa ahodoɔ na eɗe Meningitis ba.

Nsaa yaree a ene meningococcal yaremmoawa tumi de meningitis ba, “septicaemia” mogya a awuduro ako mu “pericarditis” honhono a eko dee ekata boto no a akoma no hye mu no. “arthritis” apɔsoapɔso a ehonhono.

Wo mmɔfra mu no meningitis ho mpopoe tumi ye:

- Esu a ano ye den
- Ne bo fu se wopagya no a
- Ntini a eye mmre wo abɔfra no tiri so esiane trir nnwi nnompe a entumi nkammɔm koraa no nti.
- ɔda a onkeka ne ho - eye den se ɔbesɔre
- onhyeda nni ahoden, ɔda mmorosoo, na ɔye akwadwoɔ, onnidi yie.
- ɔye bawee na otwetwe ne ho mu (esoro ka no/etwere)
- woma no aduane onni, ofefe
- honam a eye hoyaa, honam no ani ye tumm anaa sesa ye bunu
- fiva

## Deen ne septicaemia?

Septicaemia ye yaree bi a ano ye den yie se mogya a eko honam no mu no yaree bi ba mu. Nsenkyerene a eye nsa ne nan a eye nwunu, honam a aye hoyaa, afeafee, ne sedee otumi da anaa se eye den se osore no ba ntentem. Se wo susu se eye Septicaemia, pe ho mmoa ntem. Wo mmofra mu no mpooee a ewo Septicaemia ho ne:

Wo mmofra mu no mpooee a ewo Septicaemia ho ne:

- homee a eba ntentem anaa ensisi so
- honam a eye hoyaa, honam no ani ye tumm anaa sesa ye bunu
- fiva ne nsa ne nan a aye nwunu
- Ahopopo
- ofefe na nnidi
- Koko anaa nsensannee koko nsisiiwa a ehoa wo ohye ase “glass nhwehwemu “teeese” no kyeree mu wo kratafa a edi ho no mu” \*
- Yaw bi a efiri ntini mu anaa apsoapso yaw a emu ye den
- n’apso n’apso no nye den
- enna a eye hu

Eho hia se wode beto tirim se enye obiara na na obenya mpooee a yeabobo so. Se obi nya mpooee yi mu bi a, enkanka koko anaa nsensannee koko nsisiiwa yi bi a, pe ayarehwe mu mmoa ntem. Se wontumi ne wo dokotani nnya nkitahodie, anaa woda so dwene wo afutuo a woanya no akyi a, gye woatenka di na fa wo ba no emergency department ayaresabea biara a eben.

\* honam ani aye tumm no, hwe n’ani ase anaa n’anom no soro ho a wobehunu nsisiiwa no yie.



## Ɔglass nhwehwemu “teeese” no

Fa glass a wɔnom mu nsuo nkyem mia nsawa no so den nti wobehunu se nsawa no hoa na esesa n’ahosuo wɔ ɔhye ase. Se n’ahosuo ansesa a, fre wo ɔkotani ntem so.

## Ehen na menya eho nsem pii?

Saa adɔye kuo ahodoɔ yi da nsem adi, na wode mmoa ma

### **Meningitis Rhwehwemu Kuo “Research Foundation”**

Ahoma a wɔfre so a wɔntua hwee “Free heplaane” 080 8800 3344 (9 anɔpa kɔsi 10 anadwo nnewɔtwe no mu 10 anɔpa kɔsi 8 anadwo nnewɔtwe no awiee ne afoofi nna) [www.meningitis.org](http://www.meningitis.org)

### **Meningitis Seesei “Now”**

24 ɔnhwere “hour” Ahoma a wɔfre so a wɔntua hwee “heplaane” 0808 80 10 388 [www.meningitisnow.org](http://www.meningitisnow.org)

Wobetumi nso abisa wo ɔkotani, ɔyarehwefoɔ a ɔhwe “practice nurse” anaa woapɔmuden mu nsrahwefoɔ na woagye afutuo, anaa fre **NHS** wɔ **111**.

**Awofɔɔ ne ahwefoɔ betumi abɔ deɛ wɔsusu se eye nsusuansoɔ wɔ aduro anaa nnuro a firi Yellow Card Scheme no mu.**

Wobetumi aye wei wɔ ɔnlaan so bere a wɔreko **[yellowcard.mhra.gov.uk](http://yellowcard.mhra.gov.uk)** anaase denam fre a wobefre Yellow Card hotline so wɔ **0800 731 6789**.

Wobetumi nso de QR code adi dwuma anaase wobetwe Yellow Card app no.



# Dada mmɔfraberem paneɔwo nhyehyɛɛ a ɛfiri Ogefuo 2022

| Bere ben   | Yaree a ɛbeɔn kotia   | Aduro ko a wɔde ma                         |
|--|---|--|
| Nnawɔtwe nnawɔtwe  | Diphtheria, tetanus, pertussis (whoopingkɔf), polio, Haemophilus nfluenzæ korɔ b (Hib) ne hepatitis B | DTaP/IPV/Hib/HepB or 6-in-1 aduro          |
|  | Meningococcal kuo B (MenB)  | MenB                                       |
|  | Rotavirus gastroenteritis <sup>4</sup>  | Rotavirus                                  |
| Nnawɔtwe dimmienu  | Diphtheria, tetanus, pertussis, polio, Hib ne hepatitis B   | DTaP/IPV/Hib/HepB                          |
|  | Pneumococcal (13 serotypes)   | Pneumococcal conjugate vaccination (PCV)   |
|  | Rotavirus <sup>4</sup>  | Rotavirus                                  |
| Nnawɔtwe dunsia  | Diphtheria, tetanus, pertussis, polio, Hib ne hepatitis B   | DTaP/IPV/Hib/HepB                          |
|  | MenB  | MenB                                       |
| Fae baako wɔ anaase abɔfra no awodadie a edi kan no akyi   | Hib ne MenC   | Hib/MenC                                   |
|  | Pneumococcal busta  | PCV  |
|  | Ntenkyem, mumps nerubella (German ntenkyem)   | MMR <sup>2</sup>                           |
|  | MenB  | MenB busta                                 |
| Mmɔfra 'paediatric' mfee a kuo a wɔse fata <sup>1</sup>    | Influenza (afe biara ɛfiri Ebo)   | LAIV <sup>2,3</sup>                        |
| Mfee mmiensa akyi ne nnawɔtwe dunsia anaase ɛno akyi pɛɛ   | Diphtheria, tetanus, pertussis ne polio   | dTaP/IPV                                   |
|  | Ntenkyem, mumps ne rubella  | MMR (hwe deɛ wɔde ma edi kan) <sup>2</sup> |
| Mmarimmaa ne mmaayewa a wɔadi mfee dummienu kɔsi dummiensa | Kokoram ne genetal warts a ɛfiri nipa pɔtee papillomavirus (HPV) ahodoɔ                               | HPV (deɛ wɔde ma abosome ntam 6-24)        |
| Mfee dunnan (sukuu afe 9)                                  | Tetanus, diphtheria ne polio  | Td/IPV (hwe MMR gyinabere)                 |
|  | Meningococcal akuo A, C, W ne Y   | MenACWY                                    |

**[1]** Hwe Abanmono nwoma no mu wɔ krataafa 19 [www.gov.uk/government/publications/influenza-the-green-book-chapter-19](http://www.gov.uk/government/publications/influenza-the-green-book-chapter-19) anaase [www.nhs.uk/conditions/vaccinations/child-flu-vaccine](http://www.nhs.uk/conditions/vaccinations/child-flu-vaccine). **[2]** Live attenuated influenza aduro no(LAIV) na MMR aduro no brand mmienu kura porcine gelatine wɔ mu. **[3]** Se LAIV (live attenuated influenza aduro no) no wɔmfa 'contraindicated'na se abɔfra no klene kuo a eye hu mu a, fa inactivated papu aduro no di dwuma. **[4]** Hwe deɛ SCID sikerin no mu aba ansa na woama Rotavirus

## Nnuro afoforo a wode ma ankoreankore a wawa nyarewa ahodo bi

| Apomuden tebae 'medika kondihyin'  | Nnuro a ebo ban kotia nyarewa ho behia   | ↑ Paneewo hia   |
|--|--|---|
| Asplenia anaase splenic a enye adwumayie 'dysfunction' (a deɛ eka ho bi ye sikle sɛɛ ne coeliac yareɛ )                            | Meningococcal akuo A, B, C, W neY<br>Pneumococcal<br>Nfluensa                                      | MenACWY<br>MenB<br>PCV13 (kɔsi mfee du up) <sup>3</sup><br>PPV (ɛfiri mfee mmienu)<br>Afe ano afe paneewo             |
| Cochlear implants  | Pneumococcal   | PCV13 (kɔsi mfee du) <sup>3</sup><br>PPV (ɛfiri mfee mmienu)  |
| Home mu haw ne akomayareɛ a eye koankoro (te sɛ ntehyewa a eye hu, pulmonary yareɛ a eye koankoro yareɛ, ne koma a egya adwuma ye) | Pneumococcal<br>Nfluensa   | PCV13 (kɔsi mfee du) <sup>3</sup><br>PPV (ɛfiri mfee mmienu)<br>Afe ano afe ano paneewo                               |
| Adwenem 'neurological' yareɛ a eye koankoro (te sɛ Parkinson's anaase motor neurone yareɛ, anaase adesua mu kyemato)               | Pneumococcal<br>Nfluensa   | PCV13 (kɔsi mfee du) <sup>3</sup><br>PPV (ɛfiri mfee mmienu)<br>Afe ano afe ano paneewo                               |
| Asikyereyareɛ <sup>¶</sup>   | Pneumococcal<br>Nfluensa   | PCV13 (kɔsi mfee du) <sup>3</sup><br>PPV (ɛfiri mfee mmienu)<br>Afe ano afe ano paneewo                               |
| Asaabo mu yareɛ a eye koankoro (CKD) (a deɛ eka ho bi ne haemodialysis)  | Pneumococcal (ɔfa 4<br>5 CKD)<br>Nfluensa (stage 3, 4 and<br>5 CKD)<br>Hepatitis B (ɔfa4 ne 5 CKD) | PCV13 (kɔsi mfee du) <sup>3</sup><br>PPV (ɛfiri mfee mmienu)<br>Afe ano afe ano paneewo<br>Hepatitis B                |
| Berebo mu yareɛ a eye koankoro   | Pneumococcal<br>Nfluena<br>Hepatitis A<br>Hepatitis B  | PCV13 (kɔsi mfee du) <sup>3</sup><br>PPV (ɛfiri mfee mmienu)<br>Afe ano afe ano paneewo<br>Hepatitis A<br>Hepatitis B |
| Haemophilia  | Hepatitis A<br>Hepatitis B   | Hepatitis A<br>Hepatitis B  |
| Immunosuppression a ɛfiri yareɛ anaase ayaresa t <sup>2</sup>  | Pneumococcal<br>Nfluensa   | PCV13 (kɔsi mfee du) <sup>1,3</sup><br>PPV (ɛfiri mfee mmienu)<br>Afe ano afe ano paneewo                             |
| Complement kyemato 'disoda' (a deɛ eka ho be ne se wo woregye complement inhibitor ayarehwe 'terapi')                              | Meningococcal akuo A, B, C, W ne Y<br>Pneumococcal<br>Nfluensa                                     | MenACWY<br>MenB<br>PCV13 (kɔsi mfee du) <sup>3</sup><br>PPV (ɛfiri mfee mmienu)<br>Afe ano afe ano paneewo            |

**[1]** Kɔsi mfee biara so immunosuppression no ano ye den yie pa ara **[2]** Susu afe ano afe no nfluensa anee a wawa won a wawa fidua mu nyinaa ne won a wawhe nkorɔfo a wawa saa nyarewa weinom no ho **[3]** Se wadi mfee mmienu kɔsi se wonnyaa mfee du na wonnawo no bi anaase wawa ne fa bi a eko tia pneumococcal yareɛ baako PCV13 doosu.

# Mmofra bere mu aduro a wode ma a woyiyi mu

| Ɔkuo a esi ano   | Mfee ne nhyehyee  | Ɔyaree                    | Nnuro hia  |
|--|---|---------------------------|--|
| Mmofra a maamenom a wawo hepatitis B awo wɔn   | Wɔ awoeɛ, nnawɔtwe nnan ne abosome 12 <sup>1,2</sup>  | Hepatitis B               | Hepatitis B (Engerix B/ HBvaxPRO)                        |
| Mmofra a wawo wɔn wɔn no afa TB koko so wɔ hɔ $\geq 40/100,000$                      | Beɛ nnaɔua 28 wɔ awo akyi <sup>4</sup>  | Tuberculosis              | BCG  |
| Mmofra a wawo awofɔ anaase nananom a wawo wɔn a wɔ aman a etaa si wɔ so <sup>3</sup> | Beɛ nnaɔua 28 wɔ awo akyi <sup>4</sup>  | Tuberculosis Nsammanwa    | BCG  |
| Ɔbaa Pemfoɔ  | Wɔ nyinsen bere no mu abere biara wɔ papu bere biara mu<br><br>Ɛfiri bere anya nnawɔtwe 16 <sup>5</sup> | Nfuwansa<br><br>Pertussis | Papua aduro a enye adwuma<br><br>dTaP/IPV (Boostrix-IPV) |

[1] Gye mogya ma HBsAg bere a woadi abosome 12 na yi yaree firi mu [2] Ede ha ko bio, woma 6-1 aduro bere woadi nnawɔtwe 8,12 ne 16 [3] Bere a dee esi afe ano afe ano ye TB is  $\geq 40/100,000$  – hwe [gov.uk/government/publications/tuberculosis-tb-by-country-rates-per-100000-people](http://gov.uk/government/publications/tuberculosis-tb-by-country-rates-per-100000-people) [4] Hwe de efiri SCID mu ba nasa na woma BCG [5] Mpen pii no a wode ma anasa na wɔakaye kyemato sekan ‘anomaly scan’ no



Dee ɔye ne

**UK Health Security Agency**

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