Example 3:

Bandim Health Project (BHP): Registration of childhood interventions in urban Guinea-Bissau

BHP follows 6 districts in the capital of Guinea-Bissau with a population of around 102,000 persons (see Map I). The first district Bandim 1 has been followed since 1978; Bandim 2 and Belem since 1983-1984; Mindara since 1992; Cuntum 1 and 2 since 1998.

The current system has been set up to measure both health outcomes and exposure to health interventions:

Outcomes:
- Mortality
- Morbidity (consultations, hospitalisations)
- Growth (mid-upper arm-circumference (MUAC))

Exposures:
- Vaccinations
- Micronutrient supplementation
- Breastfeeding
- Bed net use
- De-worming
- Others (socio-economic conditions, hygienic conditions)

Other exposures might be relevant elsewhere, e.g. IPTi, other micronutrients, and feeding programmes, but are not relevant at the moment in Guinea-Bissau.

MAP I: Bandim Health Project study area
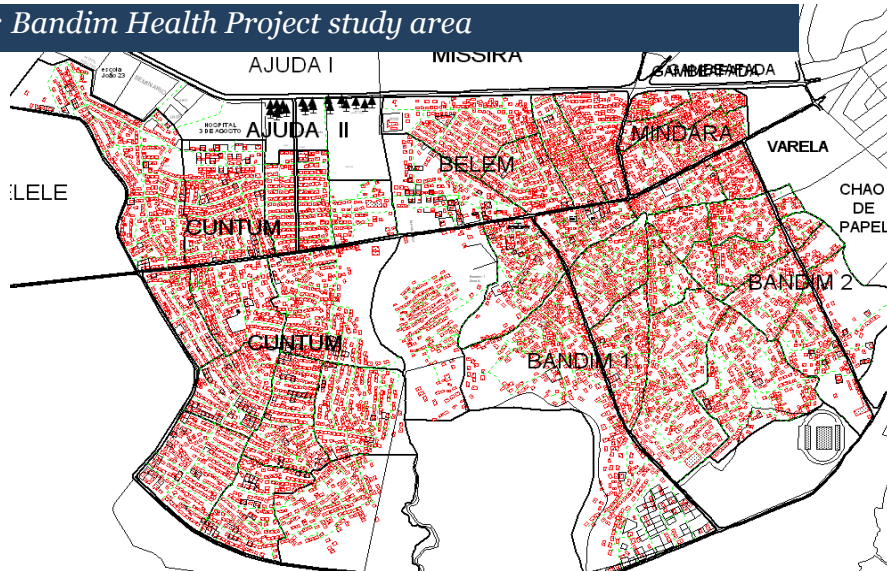
As described in the following the childhood registration system focuses on (I) the identification of pregnancies and births, (II) regular follow-up for vital status, child development and childhood interventions, (III) ongoing registration of vaccinations, (IV) campaigns, and (V) hospitalisations. Seven field workers each responsible for a certain number of sub-districts (zones – see Map 1) and

three supervisors (data control/data entry) maintain the routine registration mentioned under (I) and (II).

(I)Pregnancy registration
The basis for the demographic registration of children is the registration of pregnancies. Without registration of pregnancies it would not be possible to get accurate information on peri-natal and early child mortality since women are unlikely to report deaths if the pregnancy was not known prior to the event. The seven field workers visit all houses in the study area *every month* to identify new pregnancies and to determine whether the woman is still pregnant or has delivered. The data format is indicated in Annex 1 (numbers and names are constructed).

Annex 1 – is a list of all house number in a specific zone (Bandim 1, zone 4) with listing of all already known pregnancies.
Column 1:   Line 1: Casa=house number; No=future Child number of a pregnancy;
                    Line 2: Fam=family number; Fno=number in family
Column 2:   Line 1: Nome de mae (Name of mother)
                    Line 2: ID of future child
Column 3:   Line 1: ID mae=ID mother
Column 4   Line 1: Dia do registo=**Registration date**
Column 5:   Line 1: Meses da gravidez= month of pregnancy
Column 6   Data provavel do parto= estimated date of delivery
Column 7   Falecimento=Death in house
Column 8   Sarampo=Measles cases in the house
Column 9   Informant

Since measles infection has been a focus of BHP, this monthly control also checked whether there were new measles which had to be verified.

When a child has been delivered a birth registration form is filled out which also has information on socio-economic background factors (see Annex 2). The mother is given a vaccination card for the child with the child's ID number on it so that is possible to re-identify the child when it comes for vaccination or consultations (see (III)).

BHP maintains also a registration of all deliveries at the maternity ward of the National Hospital where the majority of the women from the study area deliver.

(II) Child data: regular follow-up for child development and childhood interventions
All children under three years of age are visited at home by the field worker responsible for the zone once every 3 months to update the information on the child. The data format used is indicated in Annex 3.

Annex 3: Child list
The example shown is from Bandim 5, Zone 4; children born after 3-12-2008 (numbers and names are constructed)
Column 1:   Line 1: No=Child number; Casa=house number
                    Line 2: Fam=family number; Fno=number in family
                    Line 3: ID (of child)
Column 2:   Line 1: Nome de crianca (Name of child)
                    Line 2: Nome de mae (Name of mother)
                    Line 3: Nome do Pae (Name of father)
Column 3:   Line 1: NUT=number of nutritional cards/examination)
                    Line 2: MUD= number of movements within study area
Column 4:   Line 1: Sex (1: Macho, 2 Femea)

Line 2: Gem=twins (1: Sim=Yes, 2 Nao=No) (including triplets)

Line 3: Xcau=exit status: 1: still part of the study; 2=moved; 3=dead

Column 5   Line 1: D_nasci=Date of birth

Line 2: D_regis=**Registration date**

Line 3: xdia=last date seen (exit date – until further information – automatically updated after each visit.

Column 6   TF (No longer used)

Column 7   BCG=date of BCG

Column 8-21 Dates of OPV (4); INje=no longer used (1); Nas=OPV at birth(1); Penta (3); Sarampo=Measles (3); Fe Am=yellow fever (1);

Column 22-23:   Nutrition:

- Co Su: Date when started supplementary feeding. Unknown date but started: "S" Not introduced: "N" Unknown: "NS"
- Pa Ma: Date when stopped breastfeeding. Unknown date but stopped: "S" Still breastfeed: "N" Unknown: "NS"

Column 24-29: Doencas = diseases:

Sa: Sarampo (Measles): N / Data

Cm=campletch=(probably impetigo)

Tc: Tosse convulsa (Whooping cough) N / Data

Po: Polio

Bp: Bexiga de porco=pig pox (sometimes chickenpox)

Va=Varicella

Column 30   Line 1: Pb=perimetro braco=armcircumference

Line 2: Hospitalisations

Line 3: Date of visit

Column 31: M M: Mora com Mae – Lives with the mother: S / N / NS

Column 32-3: PM=porco moradia=pigs in household; PC=porco casa=pigs in house

Column 34:   Cartao=Cartão de Vacina =Vaccination card. VC: Vi cartão (seen card), NVC: Nao vi cartão = card not seen (but has card); CP: Cartão perdeu= card lost; NTN: Nunca tinha cartão – e nunca tomou vacinas (Never had a card – and never vaccinated); NTS: Nunca tinha cartão – mas tomou vacinas (Never had a card – but vaccinated); NS: Informador nao sabe se tem cartão (Dont know)

(III) Ongoing registration of vaccinations

There are three health centres providing vaccinations in the study area (Map II). BHP has a field worker at each of these health centres during morning hours when vaccinations take place. The field worker is responsible for

- Registering all routine vaccinations at the centre – using the format presented in Annex 4 (numbers and names are constructed)
- Registering all child consultations at the health centre – using the format presented in Annex 5 (numbers and names are constructed).
- (Recruiting children for trials that may be on-going in the study area, for example, BCG vaccination for low-birth weight (LBW) children)

MAP II. Health care facilities in the urban area
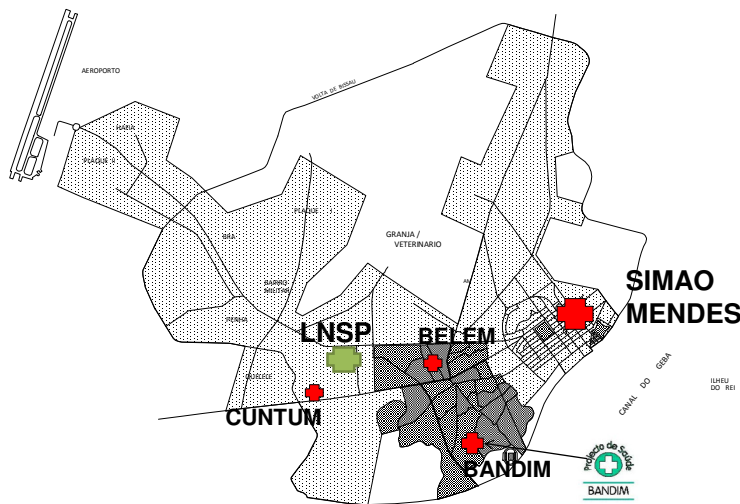
It will be seen in Annex 4 that we register: Address (column 1); name of mother (column 2); whether mother received vitamin A (column 3) – this is a wrong procedure but has sometimes been carried out by the nurses; name of child (column 4); date of birth (column 5); sex (column 6); Vaccine received on the date seen at the health centre: BCG (column 7); OPV at birth (column 8); Penta1-3 and OPV 1-3 (column 9-11); measles (column 12); yellow fever (column 13); weight of child (column 14); observations (column 15). Most children coming to the health centre will bring their vaccination card and, since the ID number is written on the card, it is usually easy to identify the children coming for vaccination or consultations so that these events can be entered in the relevant data files and linked to the children. Children who come without a vaccination card are usually visitors or newborns who have not yet received a vaccination card. It will be seen in Annex 4 that all children who do not have an ID under "Observations" are from districts outside the study area. All such children are checked by a senior supervisor who is particularly good at identifying children based on the birth date and name of mother.

The list of consultations in Annex 5 registers (numbers and names are constructed): First column: District, zone, house number, and child number (line 1); Name of child, birth date (line 2); sex of child(line 3), study participation, and study number (Line 4); Name of mother (line 5); Symptoms (Line 6) Second column: Weight (line 1);DOB (line 2); age (line 3); Diagnose 1 (line 4); Diagnose 2 – used for ID (line 5); Analyses (line 6).

(IV) Campaigns
More and more child interventions are delivered by campaigns, for example, OPV (polio eradication), vitamin A supplementation (VAS), de-worming, influenza vaccination, and general measles vaccination campaigns. The first campaign that BHP managed to cover was the first polio campaign in the spring of 1998 (1). During the last 10 years (since 2002), BHP has attempted to cover all campaigns affecting the children in the study area with the exception of the bed-net impregnation campaigns which have been differently organised. Campaigns have either been *fixed-posts* where the nurses sit at a fixed place and the mother has to bring the child to the post or *house-to-house campaigns* where the nurses visit all houses in the study area (2). The coverage of campaigns has either been (a) *active following the vaccinations teams* to register the interventions with a swap up survey shortly after to obtain information on children not seen during the campaign or (b) *surveys* just after the campaigns. In both situations the follow-up is based on the child list

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(see Annex 3). The field worker brings pre-printed child lists for the zones they are likely to cover either through a fixed-post or a house-to-house visits and using the vaccination cards the field workers will register which children received the intervention be it vaccines, VAS or de-worming. If a child comes to a post other than the one where it usually lives, its identification number, name, and birth date will be registered by the field worker and will subsequently be transferred to the list for the relevant zones.

Swap-up. After the campaign, the field workers will visit all children for whom there is no information about receiving or not receiving the intervention to inquire whether they received the intervention elsewhere, had moved or did not receive the intervention. Hence, in principle we get complete information for each campaign for all children in the study area, except that some children may be travelling for extended periods of time and it will not be possible to get the relevant information.

(V) Hospitalisations
At the paediatric ward of the national hospital in Bissau – Simão Mendes – the BHP maintains an ongoing registration of all outpatient consultations and hospitalizations (see MAP II). Hospitalisations have been registered since 1990; the out-patient consultations have been added more recently.

Again, the identification of children from the study area is based on using the vaccination card that the mothers usually bring along. We also register the current vaccination status of the children at the time of hospitalization. This has permitted several analyses of vaccination status as a risk factor for severity of disease or hospital mortality (3-6).

There will always be some children said to be from the study area who can not be identified because they have recently moved to the area, they have not brought their vaccination card, or they are accompanied by a guardian who uses local ethnic names for the mother and child (rather than the official names reported by the mother) and may not know the correct birth date of the child, making it difficult to identify the child in the registers. All such children are checked by a senior supervisor who is particularly good at identifying children based on the birth date and name of mother.

References
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4. Veirum JE, Sodemann M, Biai S, Jakobsen M, Garly ML, Hedegaard K, Jensen H, Aaby P. Routine vaccinations associated with divergent effects on female and male mortality at the paediatric ward in Bissau, Guinea-Bissau. Vaccine 2005;23:1197-1203
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6. Biai S, Rodrigues A, Nielsen J, Sodemann M, Aaby P. Vaccination status and sequence of vaccinations as risk factors for hospitalisation among outpatients in a high mortality country Vaccine 2011; 29:3662-9

Appendix 1: List of pregnancies

Visto: 05/10/2012 Carlos Cabral

Controlo das prenhadas - Bissau, Bandim 5 zona 4   04/10/2012 20:41:19

Bairro/Zona:54   Data da entrevista: 4.10.12

Casa/No Fam/Pno	Nome da mae [Id]	[Id mae] Dia do registo	Meses da gravidez	Data provavel do parto	Falecimen-tos (S/N)	Sarampo (S/N)	Informador
201	[N]	[N] / /	N	N	N	N	Ana
202 2872 5 39	JUDITE MONTEIRO [5402872]	[5414351] 17/05/2012	8 Mes	N	N	N	Cadi
203	[ ]	[ ] / /	N	N	N	N	Cadi
204	[ ]	[ ] / /	N	N	N	N	Quinta
205 2896	EVA MORREIRA [5402896]	[ ] 13/08/2012	5 M	02-2013	N	N	Segunda
205	[ ]	[ ] / /	N	N	N	N	Ana
206 2876 4 43	FRANCISCA CO Bebe (faleceu) [5402876]	[5414517] 2 29.9.12 13/06/2012	Deu luz		S Bebe(0)	N	Francisca
207	[N]	[ ] N / /	N	N	N	N	Vizinho
208 2895 9 11	DIONISIA TE [5402895]	[5414523] 13/08/2012	4 M	03/203	N	N	Dionisia
209	[N]	[N] / /	N	N	N	N	Carlos
210 2874 13 14	ROSA IE [5402874]	[5210363] 13/06/2012	7M	12/2012	N	N	Rosa
210 2875 24 10	JULIA TE Bebe [5402875]	[5719522] 1 15/09/12 13/06/2012	Deu luz		N	N	Julia
211 2893	MARIAMA DJAO [5402893]	[ ] 24/07/2012	6 M	01/2013	N	N	Mariana
211	[N]	[N] / /	N	N	N	N	Mariana
212	Ussumane Ba [ ]	2/12 4] 04/10/2012	8M	11/2012	N	N	Ussumane
213 2886 3 50	FATUMATA BINTA DJALO [5402886]	[5400667] 04/07/2012	5M	02/2013	N	N	Fatumata
214	N [ ]	[N] / /	N	N	N	N	Carla
215	Cadi Camara [ ]	6/7 9 04/10/2012	3 M	04-2013	N	N	Cadi

Pagina   1

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Annex 2: Birth form

NASCIMENTO

Bairro(address)_____ Zona_____ Casa_____ Família N:_____ N: na Família_____ CNO_____

Data de entrevista(interview data)_____ Dias depois de nascimento(days after birth)_____

Se mais de 14 dias, porque?_(if more than 14 days, why?)_____

_____N. de Telefone: _____

A família tem recenseamento Sim [   ] Não [   ] Hópede[   ] Outra[   ]_(family is in census)_____

CRIANÇA (Child)

Nome (name)_____ Data de nascimento _____ /_____/201__(DOB)

Pelas: _____ H_____ Minutos (time)

Etnia (ethnic group)_____   Circunferência Cefálica _____, _____ cm (head circumf.)

Nado vivo [   ] Nado morto [   ] Aborto [   ] (born live/dead/abortion)

Quantos meses a gravidez completou_____(No months completed)

Data de registo de gravidez_____ (registration date)

Se depois de nascimento, morava em Bandim I,II / Belém / Mindará ou Cuntum / antes de dar a luz? Sim [   ]   Não [   ]

(if registered after delivery, lived in district before delivery? If came later when?)

Se veio depois, quando veio_____ (mês / Ano), de onde _____

Mora agora com quem?   (Live with whom) Nome_____ Familia_____ Fno_____

Pai [   ]   Mãe [   ]   Avó [   ]   Avô [   ] Tio [   ]   Tia [   ]   Outra [   ]

Sexo: Macho [   ]   Fêmea [   ]   Gémeos: Sim [   ]   Não [   ] (Twin?)

Peso de hoje:_____g   (Weight today)   Peso no hospital:_____g (weight at hopsital)

Já tomou vacina de BCG?   Sim [   ]   Não [   ]   Não sabe [   ],   Se   sim   Data: _____/_____/20____

Já tomou vacina contra Polio ao nascer? (OPV0) Sim [   ] Não [   ] Não sabe [   ],   Se   sim   Data:__/_____/20____

Viu cartão?   VI [   ]   NT [   ]   NVI [   ]   PC [   ] (seen vaccination card)

Cicatriz   S [   ]   N [   ]   NS [   ]   (Scar?)   PB =_____(MUAC)

Esta criança é parto N: (Delivery no?)_____ Quantas estão vivas (inclusive o recenascido) (no alive?)_____

O parto anterior ainda está vivo? Sim [   ]   Não [   ], Se não: nado vivo [   ]   Nado morto [   ] (previous alive)

O parto penúltimo esta vivo?   Sim[   ]   Não [   ], se não : nado vivo [   ], Nado morto [   ] (second last alive)

Nome do irmão mais novo ainda vivo (name last child/DOB/SEX_____

Data de nascimento _____/_____/_____ Idade _____ Anos ____ Sexo: Macho [   ] Fêmea [   ]

Quem fica com o irmão mais novo durante o dia_(Who takes care of child)_____

MÃE (Mother)

Nome _____ Casa_____ Fam _____ Fno _____

Data de nascimento_____ / Idade_____ (DOB/Age)

Anos na Escola (até qual classe): _____(years in school)

Formação suplimentar?   Sim [   ]   Não   [   ] (supplementary education)

  Mora com o pai?   Sim [   ]   Não   [   ] (live with father of child)

  Tem comboça?   Sim [   ]   Não [   ]   Na casa? Sim [   ]   Não   [   ] (Co-wives? In house?)

  Tem trabalho fora da casa?   Sim [   ]   Não [   ]   Trabalho do pai__(work of father)_____

Nome do pai _(Name father/address)_____ Bairro_____Casa_____ Fam_____ FNO_____

O pai mora fora de Bandim I-II, Belém, Mindara, Cuntum [   ]

CASA (House)

Tecto: Palha   [   ]   Zinco [   ]   Telha [   ] Fibra Cimento [   ] (roof)

Electricidade: Sim   [   ]   Não   [   ] (electricity)

Televisão: Sim   [   ]   Não   [   ] TV)

Casa de banho: Nada [   ]   Latrina [   ] Dentro da casa [   ] (Toilet – outside/inside)

GRAVIDEZ (Pregnancy)

Foi à consulta durante a gravidez?   Sim   [   ]   Não   [   ] (antenatal care)

Quantas vezes⊗ times)_____ Onde:_(where)_____

Vacina contra tétano durante esta gravidez?   Sim   [   ]   Não [   ] Quantas vezes____No tetanus vac?_____

Vacina contra tétano durante a gravidez anterior? Sim   [   ]   Não [   ] Quantas vezes (Tetanus previously?_____

Vacina contra influenza (Outubro 2010) durante a gravidez?   Sim   [   ]   Não [   ] Vaccine H1N1 vaccine in 2010?

Gravidez quantos meses? _____   Data_____/_____/_____

Vitamina A   Sim   [   ]   Não [   ] se sim data: _____/_____/_____ Vitamin A during pregnancy

Vi cartão de gravidez?   Sim   [   ]   Não [   ] Antenatal card seen

Deu a luz em Bissau?   Sim   [   ]   Não [   ], onde_Gave birth in Bissau? Where? _____

Deu a luz na casa ?   Sim   [   ]   Gave birth at home?

No hospital :   Simão Mendes [   ]   Centro de Saúde Bandim   [   ] Which hospital

Outro, [   ] _____

Se deu a luz na casa, quem ajudou no parto? Relação _____Homedelivery who helped_____

(Nome: _____) idade:_____

Apresentação :   Cabeça [   ] Pé [   ]   Não sabe [   ] Presentation of fetus

Cesariana desta vez?   Sim   [   ]   Não Cesarian section)

INFORMADOR: (relação)_____(informant?)_____

Quanto tempo vai dar de mamar esta criança?_Will breastfeed for how long?_____

_____

Esta ficha é feita na zona no dia _____/____/_____   Esta ficha é veificado no dia _____/____/_____

Pelo Assistente : Assistent_____   Pelo Supervisor : Supervisor_____

Annex 3: Child list

Bissau Bandim 5 - zona 4 Criança com nascimento depois 03/12/2008

Nº Casa Fam Fno ID	Nome da Criança / Nome da Mãe / Nome da Pãe	NUT Sex D_Nasci MUD Gem D_Regis Fno Xcau Xdia	B T C F G	Vacinas: Polio: 1 2 3	In Na je s. 1 2 3 4	Pentaval 1 2 3	Sarampo 1 2 3	Fe Co Pa Am Su Ma Sa Cm Tc Po Bp Va	Ali:: Doenças:	Visitas: (Está/Braço /Hosp.)
8803 523 3 7 5708803	IVANDRO LOPES / INACIA DA COSTA	DIV [5711205] 3 1 03/05/2009 / 1 2 04/01/2011 / 2 28/09/2011	4 18 15 15 / 5 6 12 1 / 10 9 10		4 18 15 15 10 / 5 6 12 1 3 / 10 9 10 10 **	10 15 10½ / 3 9 ½ / 10 9 **		Mudança HOSPITAL 0 Data: 27.03.12		
8349 525 2 16 5708349	DINA TE / ELVINA CABRAL	DIV [5713906] 10 2 28/08/2009 / 0 2 25/05/2009 / 1 15/01/2012	31 14 14 / 8 12 1 / 9 9 10 **		31 14 / 8 1 / 9 10 ** ** **	15 8 / 2 8 / ** 10 11	Pb= 144 Hosp= 0 Data: 28.03.12 S01
8569 525 2 17 5708569	EPIFANIO QUADE / PAULA CABRAL	DIV [5719059] 8 1 20/03/2010 / 0 2 23/02/2010 / 1 27/12/2011	30 / 3 / 10 ** ** **		** ** ** / ** ** ** / ** ** **	15 7 / 10 / ** 10 ** 11	Pb= Viagem FORICA Hosp= 01 Data: 28.03.12 S01
8795 525 6 4 5708795	JUNIOU SANCA / AUA CAMARA	DIV [5700091] 5 1 28/04/2011 / 0 2 30/12/2010 / 1 27/12/2011	5 14 29 6 / 5 6 7 9 / 11 11 11 11		5 14 29 6 27 / 5 6 7 9 01 / 11 11 11 11 12	22 15 / 01 9 / 12 11 **	Pb= 130 Hosp= 0 Data: 28.03.12 S14
9037 525 8 3 5709037	SIMAO TE / JULIA IE	DIV [5300606] 2 1 11/02/2012 / 0 2 16/09/2011 / 1 13/02/2012	12 22 / 2 03 / 12 12 ** ** **		12 27 / 2 03 / 12 ** ** ** **	** ** ** / ** ** **	Pb= 128 Hosp= 0 Data: 28.03.12 S01
2874 529 13 14 5402874	*P* Bebe / ROSA IE	[5210363] 0 10/03/12 / 0 16/09/2011 / 9 16/09/2011 Sexo: 2	10 03 12 ** ** **		10 03 12 ** ** ** ** **	** ** ** / ** ** **	Pb= 96 Hosp= 0 Data: 28.03.12 S01

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Annex 4: List of vaccinations at health centre

DIA 22 / 07 / 2012

vacinas no centro de saude, _____ Assistente: _____

Endereço Bairro Zona / Casa Nº	Nome da mãe	Mãe VitA	Nome da criança	data nascimento	sexo	BCG	polio nas	1.polio	1.penta 2.polio	2.penta 3.polio	3.Penta	1 sarampo	VAA	Peso	observações
51-84000			Artur da Silva	12.03.12	F						X			7.100	5104000
51-274010	Laura Tavares		Niveceé	11.07.12	F		X							8.350	5104016
52-19/2871	Quintilia Dr.		Celeste Gomes	15.05.12	F			X						6.270	5212871
52-18/3740	Neivelineto		Tone Neto	12.04.12	F			X						5720	5303740
51-18/4062	Orele Brbal		Elisabeteonera	07.07.12	M	X	X							5060	5104062
54-25/1528	Ester Capera		Pissato Ba	16.03.12	F				X					7.700	5401528
54-16/1602	Neveguito Diab		Hayreneli Ba	12.06.11	M							X	X	10.700	5401602
54-11/1747	Monkeunene OD		Gilson Cabral	24.05.12	F			X						6.600	5401747
52-129/2510	Paulemyde		Seco Pinto	03.10.11	M							X	X	8.720	5202510
51-100/4012	Felicia Ferreira		Mesó Zaenu	17.04.12	M									5100	5104012
53-79/3740	Ana Rentxauna		Juvita Jabique	06.04.12	M					X				5840	5303740
51-40/4011	Cadenapez		Cristovo Zeu Saude	18.03.12	M	X X				X				8040	5104011
54-29/1790	Mariatzielo		Butecca Dieu	10.07.12	M									3750	5401790
52-04/2811	Geraldogopes		Eliseu Jabanta	11.06.11	M					X		X	X	8.270	5202811
52-16/2913	Softrotanono		pamelo Sinto	29.11.11	M					X				6640	5202813
55-10/5200	Orsceção de Silva		Orlisto Ancunção	26.09.11	M							X	X	8540	5505200
55-3/5703	Fatunagargirh Ba		Picule Diab	02.01.12	F		X							3710	5505703
6º plaño	Oradiológico		Scleureietieb	07.03.12	F			X	X	X		X	X	4010	
Hosp.prov.n3 potros	Marie Serba		Sameuela Silva	17.02.09	M				X			X	X	8620	
Hosp.prov.n6	Quient Tando		Crispa Silva	14.05.11	F					X		X	X		
54-189/1522	Teperdnidade		Helicnolineda	22.01.12	M			X						4375	5401522
53-92/3740	Felisuel OD		Diupshdudei	26.01.12	F			X						4080	5303740

| Numero de frasco (Batch) de vaccina: | | | BCG | | | Polio | | Penta | | | Sarampo | | VAA | | |

Annex 5: List of health centre consultations

Lista de consultas nos CS – crianças estudos no PSB

Data de consulta: 11/07/2012

CS**BANDIM** X/**SIMAO MENDES** /CS**BELEM** /CS**CUNTUM** /CL.**BOR**/ /CS**MADINA** /

Bairro:	Zona: 51	Casa: 64	CNO: 4311	PESO: 8.400 Kgs
Nome da Criança : César da Costa			Data Nasc. 07/03/2011
Sexo: M /X/ F /_/			Idade (meses)
Cod. Est: MV, GEM, VitA, TS, DDNOVO, LW, QQ.ROTA IRIPT, PSB__ Diagn.1: IRA
Nomemae: Maria Domingas Indi		Diagn.2: 51043711
Sintomas: Febre, Tosse, Diarreis, vomito	Analise: GE-Hb.14.0 leve 12.0mm

Bairro:	Zona: 51	Casa: 19	CNO: 4197	PESO: 9.700 Kgs
Nome da Criança : Carfala Indjai			Data Nasc. 26/02/2010
Sexo: M /X/ F /_/			Idade (meses)
Cod. Est: MV, GEM, VitA, TS, DDNOVO, LW, QQ.ROTA.IRIPT, PSB_ Diagn.1: IRA
Nomemae: Djenabo Fati		Diagn.2: 51044197
Sintomas: Constipação, vomito, diarre	Analise:

Bairro:	Zona: 53	Casa: 27	CNO: 1250	PESO: 8.700 Kgs
Nome da Criança : Mouznhet Sanha			Data Nasc. 13/08/2010
Sexo: M /_/ F /X/			Idade (meses)
Cod. Est: MV, GEM, VitA, TS, DDNOVO, LW, QQ.ROTA.IRIPT: PSB__ Diagn.1: paludismo
Nomemae: Brasau Tidane		Diagn.2: 53071250
Sintomas: vomito, Constipação	Analise: GE-3, Hb.11,8 leve 14.4m

Bairro:	Zona: 52	Casa: 94	CNO: 2807	PESO: 6.200 Kgs
Nome da Criança : Barack da Silva			Data Nasc. 17/07/2012
Sexo: M /X/ F /_/			Idade (meses) 52022807
Cod. Est: MV, GEM, VitA, TS, DDNOVO, LW, QQ.ROTA.IRIPT, PSB__ Diagn.1: Bronquite
Nomemae: Cecilia Mendonça		Diagn.2: paludismo
Sintomas:	Analise: GE+ Hb.11,7, leve.10.3

Bairro:	Zona: 51	Casa: 37	CNO: 3702	PESO: 12.000 Kgs
Nome da Criança : Jesuine Yangues			Data Nasc. 30/05/2009
Sexo: M /_/ F /X/			Idade (meses) 51033702
Cod. Est: MV, GEM, VitA, TS, DDNOVO, LW, QQ.ROTA.IRIPT, PSB__ Diagn.1: paludismo
Nomemae: Kurila Mendi		Diagn.2: Anemia
Sintomas: vomito, febre, dor abdomen	Analise: GE+ Hb.100 leve.12.3

Bairro:	Zona: 51	Casa: 15	CNO: 4007	PESO: 13.000 Kgs
Nome da Criança : Mavadee Balde Son			Data Nasc. 03/04/2009
Sexo: M /X/ F /_/			Idade (meses)
Cod. Est: MV, GEM, VitA, TS, DDNOVO, LW, QQ.ROTA.IRIPT, PSB__ Diagn.1: EDA + IRA
Nomemae: Dissalo Balat		Diagn.2: 51044007
Sintomas: Febre, diarreia, vomito, Tosse	Analise: GE - Hb.12.2 leve.14.3

Bairro:	Zona: 52	Casa: 71	CNO: 2773	PESO: 9.200 Kgs
Nome da Criança : Carmem Ca			Data Nasc. 02/01/2012
Sexo: M /_/ F /X/			Idade (meses)
Cod. Est: MV, GEM, VitA, TS, DDNOVO, LW, QQ.ROTA.IRIPT, PSB_ Diagn.1 paludismo
Nomemae: Yori Bande Sm		Diagn.2: 52022773
Sintomas: Anorexia, febre, vomito	Analise: GE+ Hb.120 leve.15.1

Bairro:	Zona: 52	Casa: 90	CNO: 2569	PESO: 10.000 Kgs
Nome da Criança : Januario Gomes			Data Nasc. 15/02/2011
Sexo: M /X/ F /_/			Idade (meses)
Cod. Est: MV, GEM, VitA, TS, DDNOVO, LW, QQ.ROTA.IRIPT, PSB__ Diagn.1: paludismo
Nomemae: Juliana da Silva		Diagn.2: 52022569
Sintomas:	Analise: GE+ Hb.13.7 leve 11.9

Bairro:	Zona: 54	Casa: 99	CNO: 1513	PESO: 7.200 Kgs
Nome da Criança : Sandra Maria Silva			Data Nasc. 14/03/2012
Sexo: M /_/ F /X/			Idade (meses)
Cod. Est: MV, GEM, VitA, TS, DDNOVO, LW, QQ.ROTA.IRIPT, PSB__ Diagn.1 IRA
Nomemae: Maria Avila da Costa Seuhr		Diagn.2: 54011513
Sintomas:	Analise: GE - Hb.123 leve.10.7

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