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The Essential Package of Health Services and Health Benefit Plans in India



About the health benefit plan crosswalk analysis

An Essential Package of Health Services (EPHS) is a broad policy statement that identifies the services that a government has prioritized. The government seeks to ensure that these essential services reach the population equitably. A health benefit plan (HBP) specifies an explicit set of services and the cost-sharing requirements for beneficiaries to access those services.

In 2015, the USAID-funded Health Finance and Governance (HFG) project completed a landscape analysis of the EPHS in the 24 USAID priority countries for Ending Preventable Child and Maternal Deaths (EPCMD).¹ The analysis found that the government in most of the countries intends for the public and/or private not-for-profit facilities in the country to deliver the services in the EPHS. It also showed that several governments were implementing major HBPs (such as social health insurance schemes) as a primary strategy for moving toward universal health coverage. Yet it remained unclear how the EPHSs and HBPs are formulated, how they are modified, and the extent to which they overlap.

HFG conducted a second landscape analysis in 2016 to identify existing HBPs in the countries, and the services they cover. It then did a crosswalk analysis – a mapping of items on one list to equivalent items on another list – of the services specified in the country’s EPHS and those identified in an HBP. This companion analysis to the EPHS country snapshot documented the degree of alignment between the EPHS and HBP.

This brief presents HFG’s findings and observations for policymakers and program managers seeking to promote alignment of services in the EPHS with services covered in the HBP and move toward universal health coverage.

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Photo: A mother teaches her child health precautions in Bangalore, India.

Credit: © 2013 A Fantasy Traveler, Courtesy of Photoshare

¹ See HFG’s series of country snapshots on EPHS here: <https://www.hfgproject.org/ephs-epcmd-country-snapshots-series/>

Health benefit plans in India

National Health Insurance Scheme

India's Universal Health Coverage policy is part of the country's 12th Five-year Plan (2012-2017) and sets targets to provide comprehensive health security for all Indians. Reaching the targets will require overcoming obstacles like poor availability, quality, and affordability of health services in the weak public health system. The Five-year Plan recommends improvements in health financing and financial protection by increasing public expenditure on health and integration of national health programs (Planning Commission, Government of India 2012). The following programs contribute to that effort.

Rashtriya Swasthya Bima Yojana

Rashtriya Swasthya Bima Yojana (RSBY) is a health insurance program that was introduced by the Ministry of Labour and Employment (MoLE) in 2008 in response to the Unorganized Workers Social Security Act (2008) enacted by the central government to ensure social security and welfare of unorganized, informal sector workers. In 2015 the implementation of RSBY was transferred from MoLE to the Ministry of Health and Family Welfare (Press Information Bureau, Government of India 2015).

Initially, the scheme targeted only below poverty line (BPL) households but recently was expanded to cover "informal sector workers, including street vendors, domestic workers, *beedi* workers,² building and construction workers, and most importantly the workers who have worked for more than 15 days under the Mahatma Gandhi National Rural Employment Guarantee Act" (Ministry of Labour and Employment, Government of India 2014). Membership is voluntary. At enrollment, member households are provided a smart card that contains biometric information of enrolled family members. Premiums for enrolled families are subsidized by the central and state governments. RSBY covers hospitalization expenses up to Rs. 30,000 (US \$450) for a family of five (Ministry of Labour and Employment, Government of India 2014). As of 2014 RSBY has covered approximately 38.5 million families in 548 (out of 676) districts in the country, making it one of the largest social health insurance schemes in the world (Press Information Bureau, Government of India 2015). In 2011 RSBY piloted an outpatient benefit which has now been launched in eight districts in six states (Shoree et al. 2014).

Through a tender process, the government selects an insurance company to contract with the state nodal agency (SNA) to provide insurance for RSBY members at the district level. The central and state governments pay the premiums on behalf of members to the insurance company. The insurance company pays health care providers directly for services delivered to members. The member's smart card is debited as benefits are used. The insurance company is responsible for empaneling health care providers and paying claims. Empanelment criteria are different for public and private facilities. Empanelled hospitals must be fully equipped and trained to treat members and submit their claims electronically to the insurance company.

Arogyasri Community Health Insurance Scheme

Arogyasri is a State Government (Andhra Pradesh and Telangana³)-sponsored health insurance scheme. The first phase of Arogyasri rolled out in three districts of Andhra Pradesh in April 2007. Enrollment was phased in, first to eight districts, then 13, and finally to all 23 districts by July 2008. Six hundred new conditions were also added to the list of services covered.

The scheme is implemented and monitored by the Arogyasri Health Care Trust, which retains part of the risk; the other half is transferred to an insurance company chosen through a bidding process. The scheme is financed by the health budget of the State Government. Membership is mandatory for all families who hold a below poverty line ration card; they are automatically enrolled in the program. Some families above the poverty line who are enrolled in other social welfare programs are also eligible for membership. The scheme covers inpatient tertiary services including hospitalization, medication, and transport up to a maximum of Rs 150,000 (US \$2,254) per family (Forgia et al. 2012).

Health care facilities are eligible to be empanelled in the scheme if they have a minimum of 50 beds and fulfill infrastructure criteria set by Arogyasri and its insurance company partner.

² Beedi workers are people, many of them women, who roll the thin, local cigarettes called beedies.

³ The state of Telangana was formed in 2014. The documents reviewed in this brief do not differentiate between Andhra Pradesh and Telangana because the documents were drafted before Telangana was formed.

Vajpayee Arogyashree Scheme

The Vajpayee Arogyashree Scheme (VAS) is a community-based health insurance scheme implemented in the State of Karnataka. This scheme was inspired by the Aarogyasri scheme in Andhra Pradesh and launched in 2009. The scheme was first implemented in six

districts in the Gulbarga division, followed by seven districts in the Belgaum division; currently, it covers the entire state. The Suvarna Arogya Suraksha Trust (SAST), an autonomous trust under the Karnataka Department of Health and Family Welfare, implements the scheme.

SAST is funded by the State Government, which pays claims to network hospitals. BPL families are eligible to be members of the scheme. A BPL family is identified on the basis of its BPL Ration Card issued by the Karnataka Food, Civil Supplies and Consumer Affairs Department. The scheme only covers tertiary care, including major surgical interventions up to a maximum of Rs 150,000 (US \$2,254) per family (Forgia et al. 2012).

A licensed third-party administrator selected through a competitive bidding process manages preauthorization and processing of claims and does the empanelment of health facilities. “All Public Hospitals (District Hospitals, Government/ Private Medical Colleges) and identified Private Hospitals/ Nursing Homes shall individually be empanelled” (SAST 2016). Empanelled facilities must have at least 50 beds, a well-equipped operating theater; post-operative rooms with a ventilator, round-the-clock lab and radiology support, trained paramedics, and specialists.

HFG identified other schemes that were not included in the crosswalk analysis, namely:

- ▶ Employees' State Insurance Scheme (ESIS)
- ▶ Central Government Health Scheme (CGHS)
- ▶ Yeshasvini Co-operative Farmers Health Care Scheme
- ▶ Chief Minister's Comprehensive Health Insurance Scheme, Kalaigarnar Kappeetu Thittam (KKT), Tamil Nadu⁴
- ▶ RSBY Plus Scheme (RP), Himachal Pradesh
- ▶ Mukhyamantri Swasthya Bima Yojana (MSBY), Chhattisgarh

HFG did not identify a detailed list of services covered by the schemes listed above and therefore could not perform a corresponding crosswalk analysis. One list of services was identified for the Yeshasvini scheme in Karnataka but categorizing the surgeries listed was beyond HFG's scope of work.

Methodology

HFG identified all major HBPs operating in the country through a desk review of public domain sources found through web-based searches, including: government strategy documents, studies and reports, peer-reviewed journal articles, news articles, and gray literature. A list of sources reviewed is at the end of this document. We collected information across all 24 countries using a common template. We analyzed the HBPs operating in the country which:

- ▶ are fully or partially publicly financed.
- ▶ employ a risk-pooling mechanism to provide financial protection to beneficiaries when they access covered services.

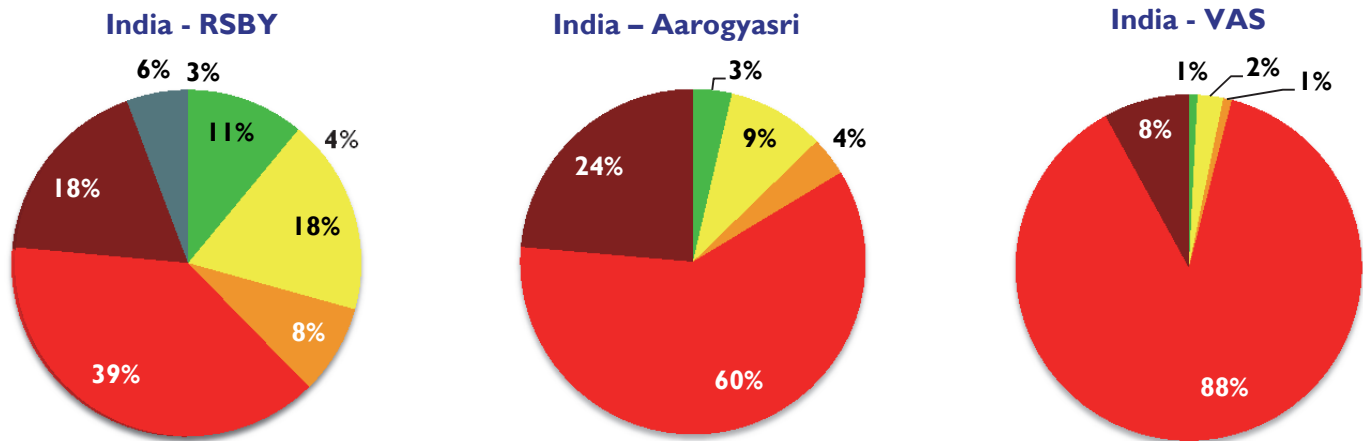
HFG determined whether the HBP had an explicit, published list of covered services. We compared services included in the government's EPHS to those in the HBP using Microsoft Excel. To indicate how each service included in the EPHS relates to those in the HBP, we established a color-coded system as follows:

TABLE 1: CLASSIFICATION SYSTEM FOR THE CROSSWALK ANALYSIS

Service included in EPHS matches service included in HBP	
Service included in HBP fits within a broader category of services included in EPHS	Service included in EPHS fits within a broader category of services included in HBP
Service included in EPHS but not included in HBP	Service included in HBP but not included in EPHS
Service explicitly excluded from EPHS	Service explicitly excluded from HBP

⁴ The KKT scheme has been discontinued.

Main observations from the crosswalk



- ▶ Overall there is limited alignment between India's EPHS and the HBPs included in the crosswalks below. Overall, the Aarogyasri and VAS HBPs poorly align with the EPHS. The EPHS lacks specificity. As a result, services listed in the RSBY HBP often fell within a broader category of services listed in the EPHS.
- ▶ The RSBY HBP explicitly excludes outpatient services.
- ▶ There is some alignment between the EPHS and the maternal health, newborn health, and child health services listed by the RSBY HBP. This can be attributed to the fact that RSBY is more focussed on secondary care.
- ▶ RSBY does not operate in Andhra Pradesh where Aarogyasri has operated since 2004.
- ▶ Other' categories under Aarogyasri and VAS better align with the EPHS because these schemes explicitly cover tertiary services, including complex surgical procedures and other procedures that commonly generate catastrophic medical expenses.
- ▶ The state schemes have a higher benefit ceiling compared to RSBY. Thus, the trade-off is more uncommon services but higher financial protection.

The detailed crosswalk is shown below. The tables present the health services essentially as written in the official health policy documents, although HFG has edited them where necessary to maintain a consistent style across this series of country briefs.

TABLE 2: RASHTRIYA SWASTHYA BIMA YOJANA (RSBY) CROSSWALK ANALYSIS

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Family Planning and Reproductive Health		
Identify suspected reproductive tract infections/ sexually transmitted infections (RTI/STI) cases, provide counseling, basic management and referral services.	Service included in HBP fits within a broader category of services included in EPHS	Counseling for HIV/STD if available
Provision of contraceptives such as condoms, oral pills, emergency contraceptives, intrauterine contraceptive devices (IUD) insertions	Service included in HBP fits within a broader category of services included in EPHS	Insertion of IUD device
Follow-up for any complication after abortion/ medical termination of pregnancy and appropriate referral if needed	Service included in HBP fits within a broader category of services included in EPHS	D&C (dilatation and curettage)
Prevention and treatment of anemia among adolescents	Service included in HBP fits within a broader category of services included in EPHS	Anemia: severe Hb less than 6 gm/dl (plus blood transfusion units)
Vasectomy, tubectomy (including laparoscopic tubectomy), MTP, hydrocelectomy	Service included in HBP fits within a broader category of services included in EPHS	Surgery of hydrocele, surgery of prostate
Rapid plasma reagin (RPN) test for syphilis	Service included in EPHS fits within a broader category of services included in HBP	Syphilis
Diagnosis of RTI/STDs with wet mounting, gram stain, etc.	Service included in EPHS but not included in HBP	
Education, motivation, and counseling to adopt appropriate family planning methods	Service included in EPHS but not included in HBP	
Family planning counseling and distribution of contraceptives	Service included in EPHS but not included in HBP	
Follow-up services to the eligible couples adopting any family planning methods (terminal/ spacing)	Service included in EPHS but not included in HBP	
Counseling and appropriate referral for safe abortion/medical termination of pregnancy services	Service included in EPHS but not included in HBP	
Education, counseling, and referral for adolescents (sexual concerns, pregnancy, contraception, abortion, menstrual problems, etc.)	Service included in EPHS but not included in HBP	
Counseling on harmful effects of tobacco and its cessation for adolescents	Service included in EPHS but not included in HBP	
Condom promotion and distribution of condoms to the high-risk groups	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Obstetrics and gynecological procedures (see package list for more detail)

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
	Service included in HBP but not included in EPHS	Genital surgery
	Service included in HBP but not included in EPHS	Urethritis: chlamydial Urethritis: gonococcal
	Service explicitly excluded from HBP	Fertility-related procedures: any fertility, sub-fertility, or assisted conception procedure, hormone replacement therapy, sex change or related treatment
Malaria		
Detection, control, and reporting of malaria	Service included in EPHS fits within a broader category of services included in HBP	Plasmodium falciparum malaria Plasmodium malariae malaria Plasmodium vivax malaria Unspecified malaria
Rapid diagnostic tests (RDT) for diagnosis of Plasmodium falciparum malaria in high Plasmodium falciparum endemic areas	Service included in EPHS fits within a broader category of services included in HBP	Plasmodium falciparum malaria
Appropriate anti-malarial treatment	Service included in EPHS fits within a broader category of services included in HBP	Malaria: complicated, uncomplicated, and cerebral
Home visits to take blood slides/do rapid diagnostic test in cases with fever where malaria is suspected	Service included in EPHS but not included in HBP	
Promotion of use of insecticidal treated nets, wherever supplied	Service included in EPHS but not included in HBP	
Tuberculosis		
Sputum testing for mycobacterium	Service included in EPHS fits within a broader category of services included in HBP	Respiratory tuberculosis, bacteriologically and histologically confirmed
Visits to community-based DOTS [Directly Observed Therapy, Short course] providers	Service included in EPHS but not included in HBP	
Referral of suspected symptomatic cases to the PHC [primary health center]/Microscopy center	Service included in EPHS but not included in HBP	
Provision of DOTS at sub-center, proper documentation and follow-up (ensure compliance and completion of treatment in all cases)	Service included in EPHS but not included in HBP	
Sputum collection centers established in sub-center for collection and transport of sputum samples in rural, tribal, hilly and difficult areas of the country where designated microscopy centers are not available	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	TB: pulmonary, TB meningitis

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
HIV/AIDS		
Counseling and referral for HIV/AIDS (screening in districts where the prevalence of HIV/AIDS is high)	Service included in HBP fits within a broader category of services included in EPHS	Counseling for HIV/STD if available
Symptom-based care and counseling with referral if needed for STI/RTI and for HIV/AIDS suspected cases		
Help and guide patients with HIV/AIDS receiving ART [antiretroviral therapy] with focus on adherence	Service included in EPHS but not included in HBP	
IEC [Information, Education and Communication] activities to enhance awareness and preventive measures about STIs and HIV/AIDS, prevention of parent to child transmission services, and HIV-TB coordination	Service included in EPHS but not included in HBP	
Pre- and post-test counseling of AIDS patients by PHC staff in high prevalence states	Service included in EPHS but not included in HBP	
Maternal Health		
Antenatal care visits (minimum 4 visits including registration)	Service included in EPHS matches service included in HBP	Comprehensive mother package (three antenatal check-ups, diagnostics, treatment and delivery - normal or Caesarean)
General examination such as height, weight, blood pressure, anemia, abdominal examination, breast examination	Service included in EPHS matches service included in HBP	Height, weight, body mass index (or waist circumference, if appropriate), and blood group, blood pressure
Injection tetanus toxoid	Service included in EPHS matches service included in HBP	Associated services like providing iron and folic acid tablets, injection tetanus toxoid, etc.
Iron and folic acid supplementation		
Treatment of anemia	Service included in EPHS matches service included in HBP	Anemia – Severe Hb less than 6 gm/dl (plus blood transfusion units)
Management of normal deliveries	Service included in EPHS matches service included in HBP	Normal delivery
Manual removal of placenta	Service included in EPHS matches service included in HBP	Manual removal of placenta
Minimum laboratory investigations like urine test for pregnancy confirmation, hemoglobin estimation, urine for albumin and sugar, and linkages with PHC for other required tests	Service included in HBP fits within a broader category of services included in EPHS	Gestational [pregnancy-induced] hypertension with or without significant proteinuria
Identification and basic first aid treatment for postpartum hemorrhage , eclampsia, sepsis and prompt referral of such cases	Service included in HBP fits within a broader category of services included in EPHS	Pre-eclampsia puerperal sepsis
Assisted vaginal deliveries including forceps/ vacuum delivery whenever required	Service included in HBP fits within a broader category of services included in EPHS	Normal delivery with episiotomy and repair

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Essential and emergency obstetric care including surgical interventions like Caesarean sections and other medical interventions	Service included in HBP fits within a broader category of services included in EPHS	Lower segment Caesarean section, Caesarean delivery
Identification of high-risk pregnancy cases	Service included in EPHS but not included in HBP	
Identification and management of danger signs during pregnancy and labor	Service included in EPHS but not included in HBP	
Malaria prophylaxis in malaria endemic zones for pregnant women	Service included in EPHS but not included in HBP	
Counseling on diet, rest, tobacco cessation if the antenatal mother is a smoker or tobacco user	Service included in EPHS but not included in HBP	
Advice on institutional deliveries, pre-birth preparedness and complication readiness, danger signs, clean and safe delivery at home, postnatal care and hygiene, nutrition, care of newborn, registration of birth, initiation of breast feeding, exclusive breast feeding for 6 months, demand feeding, supplementary feeding from 6 months onwards, infant and young child feeding and contraception	Service included in EPHS but not included in HBP	
Minimum 24 hours of stay of mother and baby after delivery at sub-center	Service included in EPHS but not included in HBP	
Postnatal home visits on 0,3,7, and 42nd day for deliveries at home, sub-center and institutional deliveries (both for mother and baby)	Service included in EPHS but not included in HBP	
Counseling on diet and rest, hygiene, contraception, essential newborn care, immunization, infant and young child feeding, STI/RTI, and HIV/AIDS	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Hysteroscopic procedures (see package list for more detail)
	Service explicitly excluded from HBP	Voluntary medical termination of pregnancy is not covered except induced by accident or other medical emergency to save the life of mother
	Service explicitly excluded from HBP	Normal hospitalization period is less than 48 hours from the time of delivery operations associated therewith for this benefit
	Service explicitly excluded from HBP	Prenatal expenses under this benefit; however, treatment in respect of any complications requiring hospitalization prior to delivery can be taken care under medical procedures

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Newborn Health		
Essential newborn care: maintain body temperature, maintain the airway and breathing, initiate breast feeding within one hour, infection protection, cord care, and care of the eyes	Service included in EPHS matches service included in HBP	Care at birth, resuscitation, provision of warmth, early initiation of breast feeding, weighing the neonate
Management of neonatal hypothermia	Service included in HBP fits within a broader category of services included in EPHS	Provision of warmth
Advice regarding care of the mother, care and feeding of the newborn, and examination of the newborn for signs of sickness and congenital abnormalities	Service included in EPHS but not included in HBP	
Counseling on exclusive breast feeding for 6 months	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Basic Package for Neonatal Care (package for babies admitted for short-term care for conditions like: Transient tachypnea of newborn, mild birth asphyxia, jaundice requiring phototherapy, hemorrhagic disease of newborn, large for date babies (>4000 gm) for observational care)
	Service included in HBP but not included in EPHS	Specialized Package for Neonatal Care (package for babies admitted with mild-moderate respiratory distress, infections/sepsis with no major complications, prolonged/persistent jaundice, assisted feeding for low birth weight babies (<1800 gms), neonatal seizures)
	Service included in HBP but not included in EPHS	Advanced Package for Neonatal Care (low birth weight babies <1500 gm and all babies admitted with complications like meningitis, severe respiratory distress, shock, coma, convulsions or encephalopathy, jaundice requiring exchange transfusion, NEC)
	Service included in HBP but not included in EPHS	Pediatric procedures (see package list for more detail)
	Service included in HBP but not included in EPHS	Neonatal jaundice due to other excessive hemolysis
	Service included in HBP but not included in EPHS	Neonatal jaundice from other and unspecified causes
Child Health		
Full immunization of all infants and children against vaccine-preventable diseases (TT 1, 2, booster, BCG, hepatitis B, OPV (oral polio vaccine), DPT, measles, vitamin A, Japanese encephalitis)	Service included in EPHS matches service included in HBP	Preventive immunizations
Prevention and control of childhood diseases like malnutrition, infections, ARI [acute respiratory infection], diarrhea, fever, anemia etc. including IMNCI (integrated management of neonatal and childhood illnesses) strategy	Service included in HBP fits within a broader category of services included in EPHS	Acute diarrhea with severe dehydration (grade 2 and above)

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Prevention and control of childhood diseases like malnutrition, infections, ARI, diarrhea, fever, anemia etc. including IMNCI (integrated management of neonatal and childhood illnesses) strategy	Service included in HBP fits within a broader category of services included in EPHS	Acute diarrhea with moderate dehydration
Screening, treatment of minor ailments, immunization, de-worming, prevention and management of Vitamin A and nutritional deficiency anemia, and referral services through fixed day visit of school	Service included in HBP fits within a broader category of services included in EPHS	Vitamin A deficiency
Weekly supervised distribution of Iron-folate tablets coupled with education about the issue	Service included in EPHS but not included in HBP	
Vitamin A prophylaxis to children	Service included in EPHS but not included in HBP	
Identification and follow-up, referral, and reporting of adverse events following immunization	Service included in EPHS but not included in HBP	
Assess the growth and development of the infants and under 5 children and make timely referral	Service included in EPHS but not included in HBP	
Other Communicable Diseases		
Referral of suspected cases of leprosy (person with skin patch, nodule, thickened skin, impaired sensation in hands and feet with muscle weakness) and its complications to PHC	Service included in HBP fits within a broader category of services included in EPHS	Leprosy reaction and neuritis (T1R and T2R)
Provision of subsequent doses of multidrug therapy and follow-up of persons under treatment for leprosy	Service included in HBP fits within a broader category of services included in EPHS	Leprosy ulcer care with stay
Annual mass drug administration with single dose of Diethyl carbamazine (DEC) to all eligible population at risk of lymphatic filariasis Where filariasis is endemic, identification of cases of lymphedema/elephantiasis and hydrocele and their referrals to PHC/CHC for appropriate management	Service included in EPHS fits within a broader category of services included in HBP	Filariasis
Assisting in detection, control, and reporting of local endemic diseases such as malaria, kala azar, Japanese encephalitis, filariasis, dengue, etc.	Service included in EPHS but not included in HBP	
Assistance in control of epidemic outbreaks	Service included in EPHS but not included in HBP	
Visits to leprosy depot holders	Service included in EPHS but not included in HBP	
House-to-house surveys to identify persons with skin lesions or other symptoms suspicious of leprosy and refer: essential in high leprosy prevalence blocks	Service included in EPHS but not included in HBP	
Health education to community regarding signs and symptoms of leprosy, its complications, curability, and availability of free of cost treatment	Service included in EPHS but not included in HBP	
Prevention of breeding places of vectors through IEC and community mobilization	Service included in EPHS but not included in HBP	



Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Collection of blood slides of fever patients	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Measles: complicated and uncomplicated
	Service included in HBP but not included in EPHS	Meningitis
	Service included in HBP but not included in EPHS	Pneumonia due to Haemophilus influenza, other infectious organisms not elsewhere classified, streptococcus pneumoniae or organism unspecified
	Service included in HBP but not included in EPHS	Typhoid and paratyphoid fevers
Drugs		
Basic medicines to take care of common ailments, prevalent among young school-going children	Service included in EPHS but not included in HBP	
Non-Communicable Diseases		
Treatment and timely referral (complicated cases) of hypertension	Service included in EPHS matches service included in HBP	Acute hypertension - medical management Control of hypertension
Treatment and timely referral (complicated cases) of congestive heart failure, etc.	Service included in EPHS matches service included in HBP	Congestive cardiac failure
Treatment and timely referral (complicated cases) of diabetes mellitus	Service included in HBP fits within a broader category of services included in EPHS	Control of diabetic ketoacidosis, Insulin-dependent diabetes mellitus-acute episode. Unspecified diabetes mellitus Non-insulin-dependent diabetes mellitus
Treatment and timely referral (complicated cases) of ischemic heart failure	Service included in HBP fits within a broader category of services included in EPHS	Acute myocardial infarction (conservative management)
Cataract cases brought to the district hospital	Service included in EPHS fits within a broader category of services included in HBP	Cataract – bilateral with IOL Cataract – unilateral with IOL
House-to-house surveys to identify persons with blindness, list and refer	Service included in EPHS but not included in HBP	
Identify persons with hearing impairment/ deafness, list, and refer	Service included in EPHS but not included in HBP	
Assisting for screening of school children for diminished vision and referral	Service included in EPHS but not included in HBP	
Education of community, especially the parents of young children, regarding importance of right feeding practices, early detection of deafness in young children, common ear problems, and available treatment for hearing impairment/ deafness	Service included in EPHS but not included in HBP	
Identify persons with disabilities, list and refer and call for counselling where needed	Service included in EPHS but not included in HBP	
Identify and list senior citizens who need special care and support	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP	
Identify persons with mental health problems and epilepsy; list and refer	Service included in EPHS but not included in HBP		
IEC activities for prevention and early detection of mental disorders	Service included in EPHS but not included in HBP		
IEC activities to promote healthy lifestyle, sensitize the community about prevention of cancers, diabetes, cardiovascular disease and strokes, early detection through awareness of warning signs and appropriate and prompt referral of suspect cases	Service included in EPHS but not included in HBP		
IEC activities to promote consumption of iodized salt by the community	Service included in EPHS but not included in HBP		
Identify persons at risk of fluorosis, suffering from fluorosis, and with deformities due to fluorosis and referral	Service included in EPHS but not included in HBP		
Line listing of reconstructive surgery cases, rehabilitative intervention activities, and referral services. Focused behavior change communication (BCC) activities to prevent fluorosis	Service included in EPHS but not included in HBP		
Spread awareness and health education regarding ill effects of tobacco use, especially in pregnant females and non-communicable diseases where tobacco is a risk factor, e.g., cardiovascular disease, cancers, chronic lung diseases	Service included in EPHS but not included in HBP		
Counseling for quitting tobacco. Spread awareness regarding law on smoke-free public places	Service included in EPHS but not included in HBP		
Other			
Diagnostic services	Biochemistry (sugar, urea, liver and kidney function, blood lipid)	Service included in EPHS matches service included in HBP	Routine measurements like CBC [complete blood count], urine routine, liver function, lipid profile, blood urea, serum creatinine and serum uric acid or any other investigations as deemed appropriate
	Hematology	Service included in HBP fits within a broader category of services included in EPHS	Whole blood per unit
	Hematology	Service included in HBP fits within a broader category of services included in EPHS	Platelets per unit
	Hematology	Service included in HBP fits within a broader category of services included in EPHS	Plasma per unit
	Hematology	Service included in HBP fits within a broader category of services included in EPHS	Packed cells per unit
	Radiology (x-ray, ultrasonography, dental x-ray)	Service included in HBP fits within a broader category of services included in EPHS	MRI (with and without contrast) (see package list for more detail)
	Radiology (x-ray, ultrasonography, dental x-ray)	Service included in HBP fits within a broader category of services included in EPHS	CT scan (with and without contrast) (see package list for more detail)

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Diagnostic services	Ophthalmology (retinoscopy, refraction, ophthalmoscopy)	Service included in EPHS fits within a broader category of services included in HBP	Ophthalmology procedures (see package list for more detail)
	Urine analysis	Service included in EPHS but not included in HBP	
	Stool analysis	Service included in EPHS but not included in HBP	
	Blood cholesterol	Service included in EPHS but not included in HBP	
	Pathology (sputum)	Service included in EPHS but not included in HBP	
	Microbiology (smear, gram stain)	Service included in EPHS but not included in HBP	
	Serology	Service included in EPHS but not included in HBP	
	Cardiac investigations (ECG)	Service included in EPHS but not included in HBP	
		Service included in HBP but not included in EPHS	Radiotherapy - per sitting
Surgical services	OPD [outpatient] services and IPD [inpatient] services: general, medicine, surgery, obstetrics and gynecology, pediatrics, dental and AYUSH [Ayurveda, Yoga and Naturopathy, Unani, Siddha and Homoeopathy] services	Service included in HBP fits within a broader category of services included in EPHS	Identified surgeries under general anaesthesia
	Vasectomy, tubectomy (including laparoscopic tubectomy), MTP, hydrocelectomy	Service included in EPHS fits within a broader category of services included in HBP	Surgery of hydrocele, surgery of prostate
	Fracture reduction and putting splints/plaster cast	Service included in EPHS fits within a broader category of services included in HBP	Treatment of fractures/dislocation (excluding hairline fracture), contracture releases and minor reconstructive procedures of limbs which otherwise require hospitalization
		Service included in HBP but not included in EPHS	Surgery of nose (see package list for more detail)
		Service included in HBP but not included in EPHS	Surgery of throat (see package list for more detail)
		Service included in HBP but not included in EPHS	Surgery of ear (see package list for more detail)
	Service included in HBP but not included in EPHS	Surgery of urinary system	

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Surgical services		Service included in HBP but not included in EPHS	Dental surgery following an accident
		Service included in HBP but not included in EPHS	Gastrointestinal surgeries
		Service included in HBP but not included in EPHS	Laparoscopic therapeutic surgeries that can be done in day care
		Service included in HBP but not included in EPHS	General surgery (see package list for more detail)
		Service included in HBP but not included in EPHS	Neurosurgery (see package list for more detail)
		Service included in HBP but not included in EPHS	Endoscopic procedures (see package list for more detail)
Outpatient, generic	OPD Services and IPD Services: general, medicine, surgery, obstetrics and gynecology, pediatrics, dental, and AYUSH services	Service included in EPHS but not included in HBP	
		Service explicitly excluded from HBP	Outpatient diagnostic, medical and surgical procedures or treatments unless necessary for treatment of a disease covered under day care procedures will not be covered.
Inpatient, generic	OPD services and IPD services: general, medicine, surgery, obstetrics and gynecology, pediatrics, dental, and AYUSH services	Service included in EPHS but not included in HBP	
Emergency services	Treatment for minor ailments: First aid including first aid to animal bite cases, wound care, tourniquet (in snake bite), assessment, and referral	Service included in EPHS matches service included in HBP	Wound debridement Snake bite Scorpion sting
	Handling of all emergencies: dengue	Service included in EPHS matches service included in HBP	Dengue fever, dengue fever (classical dengue, dengue hemorrhagic fever, dengue hemorrhagic fever plus packed cell transfusion)
	Handling of all emergencies: pneumonias	Service included in EPHS matches service included in HBP	Acute pneumonia/consolidation Bacterial
	Handling of all emergencies: dog and snake bite cases	Service included in EPHS matches service included in HBP	Snake bite (poisonous)
	Handling of all emergencies: dog and snake bite cases	Service included in EPHS matches service included in HBP	Dog bite subject to completion of 5 injections plus dressing
	Handling of all emergencies: burns	Service included in HBP fits within a broader category of services included in EPHS	Up to 30% burns first dressing Up to 30% burns subsequent dressing

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Emergency services	Handling of all emergencies: poisonings	Service included in HBP fits within a broader category of services included in EPHS	Accidental organo-phosphorus poisoning Food poisoning
	Treatment for minor ailments: fever	Service included in EPHS fits within a broader category of services included in HBP	Pyrexia of unknown origin management (would include fevers - viral/ bacterial/fungal/ infestation, etc.)
	Treatment for minor ailments: diarrhea, ARI, worm infestation	Service included in EPHS but not included in HBP	
	Handling of all emergencies: hemorrhagic fever, cerebral malaria, and others like dog and snake bite cases, congestive heart failure, left ventricular failure, meningoencephalitis, acute respiratory conditions, status epilepticus, burns, shock, acute dehydration, etc.	Service included in EPHS but not included in HBP	
Other public health services	Health communication especially as related to national health programs through attending Village Health Sanitation and Nutrition Committee meetings, ASHA [Accredited Social Health Activist] local review meetings and meetings with panchayat members/sarpanch, self-help groups, women's groups and other BCC activities	Service included in EPHS but not included in HBP	
	Collection and reporting of vital events (birth, death, marriage)	Service included in EPHS but not included in HBP	
	Health communication to mothers, adolescents, and other members of the community who attend the village health and nutrition day for whatever reason	Service included in EPHS but not included in HBP	
	Disinfection of water sources and promotion of sanitation including use of toilets and appropriate garbage disposal	Service included in EPHS but not included in HBP	
	Visits to support accredited social health activists where further counseling is needed to persuade a family to utilize required health services, e.g., immunization dropouts, antenatal care dropouts, TB defaulter, etc.	Service included in EPHS but not included in HBP	
	Provision of first aid and referral services for cases with oral health problems	Service included in EPHS but not included in HBP	
	Health education on prevention of disability	Service included in EPHS but not included in HBP	
	Referral of sick old persons to PHC	Service included in EPHS but not included in HBP	
	Counseling of elderly persons and their family members on healthy aging	Service included in EPHS but not included in HBP	

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Specialized services		Service included in HBP but not included in EPHS	Dental procedures (see package list for more detail)
		Service included in HBP but not included in EPHS	Orthopedic procedures (see package list for more detail)
Specialized services		Service included in HBP but not included in EPHS	Endocrine-related procedures (see package list for more detail)
		Service included in HBP but not included in EPHS	Urology procedures (see package list for more detail)
		Service included in HBP but not included in EPHS	Oncology procedures (see package list for more detail)
		Service included in HBP but not included in EPHS	General ward: unspecified
		Service included in HBP but not included in EPHS	ICU-designated air conditioned space, with standard ICU bed, equipment for the constant monitoring for vitals, emergency crash cart/tray, defibrillator, ventilators, suction pumps, bedside oxygen facility
		Service explicitly excluded from HBP	Dental treatment or surgery which is corrective, cosmetic or of aesthetic procedure, filling of cavity, root canal including wear and tear, etc., unless arising from disease or injury and which requires hospitalization for treatment
		Service explicitly excluded from HBP	Congenital external diseases or defects or anomalies, convalescence, general debility, "run down" condition or rest cure
		Service explicitly excluded from HBP	Drug and alcohol induced illness
		Service explicitly excluded from HBP	Vaccination, inoculation, or change of life or cosmetic or of aesthetic treatment of any description, plastic surgery (unless due to an accident or illness), circumcision (unless necessary for treatment of a disease)
		Service explicitly excluded from HBP	Injury or disease directly or indirectly caused by or arising from or attributable to war
	Service explicitly excluded from HBP	Suicide: Intentional self-injury/suicide	

TABLE 3: AAROGYASRI CROSSWALK ANALYSIS

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Family Planning and Reproductive Health		
Vasectomy, tubectomy (including laparoscopic tubectomy), MTP, hydrocelectomy	Service included in HBP fits within a broader category of services included in EPHS	Ruptured uterus with tubectomy
Prevention and treatment of anemia among adolescents	Service included in EPHS fits within a broader category of services included in HBP	Anemia of unknown cause
Identify suspected reproductive tract infections/sexually transmitted infections (RTI/STI) case, provide counseling, basic management, and referral services	Service included in EPHS but not included in HBP	
Diagnosis of RTI/STDs with wet mounting, gram stain, etc.	Service included in EPHS but not included in HBP	
Education, motivation, and counseling to adopt appropriate family planning methods	Service included in EPHS but not included in HBP	
Family planning counseling and distribution of contraceptives	Service included in EPHS but not included in HBP	
Provision of contraceptives such as condoms, oral pills, emergency contraceptives, intra-uterine contraceptive devices (IUD) insertions	Service included in EPHS but not included in HBP	
Follow-up services to eligible couples adopting any family planning methods (terminal/ spacing)	Service included in EPHS but not included in HBP	
Counseling and appropriate referral for safe abortion/ medical termination of pregnancy services	Service included in EPHS but not included in HBP	
Follow-up for any complication after abortion/ medical termination of pregnancy and appropriate referral if needed	Service included in EPHS but not included in HBP	
Education, counseling, and referral for adolescents (sexual concerns, pregnancy, contraception, abortion, menstrual problems, etc.)	Service included in EPHS but not included in HBP	
Counseling on harmful effects of tobacco and its cessation for adolescents	Service included in EPHS but not included in HBP	
Condom promotion and distribution of condoms to the high-risk groups	Service included in EPHS but not included in HBP	
Rapid plasma reagin (RPN) test for syphilis	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Laparoscopic procedures *

* Various different procedures listed under different headings in HBP. Reviewer introduced the term laparoscopic procedures

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Malaria		
Rapid diagnostic tests (RDT) for diagnosis of Plasmodium falciparum malaria in high Plasmodium falciparum endemic areas	Service included in EPHS fits within a broader category of services included in HBP	Medical management of cerebral malaria (falciparum)
Detection, control and reporting of malaria	Service included in EPHS but not included in HBP	
Appropriate anti-malarial treatment	Service included in EPHS but not included in HBP	
Home visits to take blood slides/do rapid diagnostic test in cases with fever where malaria is suspected	Service included in EPHS but not included in HBP	
Promotion of use of insecticidal treated nets, wherever supplied	Service included in EPHS but not included in HBP	
Tuberculosis		
Sputum testing for mycobacterium	Service included in EPHS but not included in HBP	
Visits to community-based DOTS providers	Service included in EPHS but not included in HBP	
Referral of suspected symptomatic cases to the PHC/Microscopy center	Service included in EPHS but not included in HBP	
Provision of DOTS at sub-center, proper documentation and follow-up (ensure compliance and completion of treatment in all cases)	Service included in EPHS but not included in HBP	
Sputum collection centers established in sub-center for collection and transport of sputum samples in rural, tribal, hilly, and difficult areas of the country where designated microscopy centers are not available	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Neuro TB Neuro TB with ventilation
	Service included in HBP but not included in EPHS	TB meningitis
	Service included in HBP but not included in EPHS	Anterolateral clearance for tuberculosis
	Service included in HBP but not included in EPHS	Medical management of neuro tuberculosis
	Service included in HBP but not included in EPHS	Medical management of neuro tuberculosis with ventilation
HIV/AIDS		
Counseling and referral for HIV/AIDS (screening in districts where the prevalence of HIV/AIDS is high)	Service included in EPHS but not included in HBP	
Symptom-based care and counseling with referral if needed for STI/RTI and for HIV/AIDS suspected cases	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Help and guide patients with HIV/AIDS receiving ART with focus on adherence	Service included in EPHS but not included in HBP	
IEC activities to enhance awareness and preventive measures about STIs and HIV/AIDS, prevention of parent to child transmission services and HIV-TB coordination	Service included in EPHS but not included in HBP	
Pre- and post-test counseling of AIDS patients by PHC staff in high-prevalence states	Service included in EPHS but not included in HBP	
Maternal Health		
Injection tetanus toxoid	Service included in EPHS matches service included in HBP	Management of severe tetanus
Treatment of anemia	Service included in EPHS matches service included in HBP	Anemia of unknown cause
Identification and basic first aid treatment for postpartum hemorrhage, eclampsia, sepsis, and prompt referral of such cases	Service included in HBP fits within a broader category of services included in EPHS	Surgical management of eclampsia with complications requiring ventilatory support
Antenatal care visits (minimum 4 visits including registration)	Service included in EPHS but not included in HBP	
General examination such as height, weight, blood pressure, anemia, abdominal examination, breast examination	Service included in EPHS but not included in HBP	
Iron and folic acid supplementation	Service included in EPHS but not included in HBP	
Management of normal deliveries	Service included in EPHS but not included in HBP	
Manual removal of placenta	Service included in EPHS but not included in HBP	
Minimum laboratory investigations like urine test for pregnancy confirmation, hemoglobin estimation, urine for albumin and sugar and linkages with PHC for other required tests	Service included in EPHS but not included in HBP	
Assisted vaginal deliveries including forceps/ vacuum delivery whenever required	Service included in EPHS but not included in HBP	
Essential and emergency obstetric care including surgical interventions like Caesarean sections and other medical interventions	Service included in EPHS but not included in HBP	
Identification of high-risk pregnancy cases	Service included in EPHS but not included in HBP	
Identification and management of danger signs during pregnancy and labor	Service included in EPHS but not included in HBP	
Malaria prophylaxis in malaria endemic zones for pregnant women	Service included in EPHS but not included in HBP	
Counseling on diet, rest, tobacco cessation if the antenatal mother is a smoker or tobacco user	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Advice on institutional deliveries, pre-birth preparedness and complication readiness, danger signs, clean and safe delivery at home, postnatal care and hygiene, nutrition, care of newborn, registration of birth, initiation of breast feeding, exclusive breast feeding for 6 months, demand feeding, supplementary feeding from 6 months onwards, infant and young child feeding and contraception	Service included in EPHS but not included in HBP	
Minimum 24 hours of stay of mother and baby after delivery at sub-center	Service included in EPHS but not included in HBP	
Post-natal home visits on 0,3,7, and 42nd day for deliveries at home, sub-center and institutional deliveries (both for mother and baby)	Service included in EPHS but not included in HBP	
Counseling on diet and rest, hygiene, contraception, essential newborn care, immunization, infant and young child feeding, STI/RTI and HIV/AIDS	Service included in EPHS but not included in HBP	
Newborn Health		
Management of neonatal hypothermia	Service included in EPHS fits within a broader category of services included in HBP	Neonatal intensive care (see package list for more detail)
Advice regarding care of the mother and care and feeding of the newborn and examination of the newborn for signs of sickness and congenital abnormalities	Service included in EPHS but not included in HBP	
Essential Newborn Care: maintain body temperature, maintain the airway and breathing, initiate breast feeding within one hour, infection protection, cord care, and care of the eyes	Service included in EPHS but not included in HBP	
Counseling on exclusive breast feeding for 6 months	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Medical management of baby with septicemia
Child Health		
Full immunization of all infants and children against vaccine preventable diseases (TT 1, 2, booster, BCG, hepatitis B, OPV (oral polio vaccine, DPT, measles, Vitamin A, Japanese encephalitis)	Service included in EPHS but not included in HBP	
Prevention and control of childhood diseases like malnutrition, infections, ARI, diarrhea, fever, anemia etc. including IMNCI (integrated management of neonatal and childhood illnesses) strategy	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Prevention and control of childhood diseases like malnutrition, infections, ARI, diarrhea, fever, anemia etc. including IMNCI (integrated management of neonatal and childhood illnesses) strategy	Service included in EPHS but not included in HBP	
Screening, treatment of minor ailments, immunization, de-worming, prevention and management of Vitamin A and nutritional deficiency anemia and referral services through fixed day visit of school	Service included in EPHS but not included in HBP	
Weekly supervised distribution of iron-folate tablets coupled with education about the issue	Service included in EPHS but not included in HBP	
Vitamin A prophylaxis to children	Service included in EPHS but not included in HBP	
Identification and follow-up, referral and reporting of adverse events following immunization	Service included in EPHS but not included in HBP	
Assess the growth and development of the infants and under 5 children and make timely referral	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Pediatric ophthalmic surgery (see package list for more detail)
	Service included in HBP but not included in EPHS	Pediatric intensive care (see package list for more detail)
	Service included in HBP but not included in EPHS	Medical management of general pediatrics (see package list for more detail)
Other Communicable Diseases		
Referral of suspected cases of leprosy (person with skin patch, nodule, thickened skin, impaired sensation in hands and feet with muscle weakness) and its complications to PHC	Service included in EPHS but not included in HBP	
Provision of subsequent doses of multidrug therapy and follow-up of persons under treatment for leprosy	Service included in EPHS but not included in HBP	
Annual mass drug administration with single dose of Diethyl carbamazine (DEC) to all eligible population at risk of lymphatic filariasis	Service included in EPHS but not included in HBP	
Where filaria is endemic, identification of cases of lymphedema/elephantiasis and hydrocele and their referrals to PHC/CHC for appropriate management	Service included in EPHS but not included in HBP	
Assisting in detection, control, and reporting of local endemic diseases such as malaria, kala azar, Japanese encephalitis, filariasis, dengue, etc.	Service included in EPHS but not included in HBP	
Assistance in control of epidemic outbreaks	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Visits to leprosy depot holders	Service included in EPHS but not included in HBP	
House-to-house surveys to identify persons with skin lesions or other symptoms suspicious of leprosy and refer: essential in high leprosy prevalence blocks	Service included in EPHS but not included in HBP	
Health education to community regarding signs and symptoms of leprosy, its complications, curability and availability of free of cost treatment	Service included in EPHS but not included in HBP	
Prevention of breeding places of vectors through IEC and community mobilization	Service included in EPHS but not included in HBP	
Collection of blood slides of fever patients	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Management of severe tetanus
	Service included in HBP but not included in EPHS	Management of complicated diphtheria
	Service included in HBP but not included in EPHS	Medical management of cryptococcal meningitis
Drugs		
Basic medicines to take care of common ailments, prevalent among young school children	Service included in EPHS but not included in HBP	
Non-Communicable Diseases		
Treatment and timely referral (complicated cases) of congestive heart failure, etc.	Service included in HBP fits within a broader category of services included in EPHS	Medical management of acute myocardial infarction
Treatment and timely referral (complicated cases) of diabetes mellitus	Service included in HBP fits within a broader category of services included in EPHS	Medical management of uncontrolled diabetes mellitus with infectious emergencies
Treatment and timely referral (complicated cases) of ischemic heart failure	Service included in HBP fits within a broader category of services included in EPHS	Medical management of ischemic strokes
Cataract cases brought to the district hospital	Service included in HBP fits within a broader category of services included in EPHS	Pediatric cataract surgery
Identify persons with mental health problems and epilepsy; list and refer	Service included in HBP fits within a broader category of services included in EPHS	Epilepsy surgery
Treatment and timely referral (complicated cases) of hypertension	Service included in EPHS but not included in HBP	
House-to-house surveys to identify persons with blindness, list and refer	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Identify persons with hearing impairment/deafness, list and refer	Service included in EPHS but not included in HBP	
Assisting for screening of school children for diminished vision and referral	Service included in EPHS but not included in HBP	
Education of community especially the parents of young children regarding importance of right feeding practices, early detection of deafness in young children, common ear problems and available treatment for hearing impairment/deafness	Service included in EPHS but not included in HBP	
Identify persons with disabilities, list and refer and call for counseling where needed	Service included in EPHS but not included in HBP	
Identify and list senior citizens who need special care and support	Service included in EPHS but not included in HBP	
IEC activities for prevention and early detection of mental disorders	Service included in EPHS but not included in HBP	
IEC activities to promote healthy lifestyle, sensitize the community about prevention of cancers, diabetes, cardiovascular disease and strokes, early detection through awareness regarding warning signs and appropriate and prompt referral of suspect cases	Service included in EPHS but not included in HBP	
IEC activities to promote consumption of iodized salt by the community	Service included in EPHS but not included in HBP	
Identify persons at risk of fluorosis, suffering from fluorosis and those having deformities due to fluorosis and referral	Service included in EPHS but not included in HBP	
Line listing of reconstructive surgery cases, rehabilitative intervention activities and referral services. Focused behavior change communication activities to prevent fluorosis	Service included in EPHS but not included in HBP	
Spread awareness and health education regarding ill effects of tobacco use especially in pregnant females and non-communicable diseases where tobacco is a risk factor, e.g., cardiovascular disease, cancers, chronic lung diseases	Service included in EPHS but not included in HBP	
Counseling for quitting tobacco. Spread awareness regarding law on smoke free public places	Service included in EPHS but not included in HBP	

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Other			
Diagnostic services	Biochemistry (sugar, urea, liver and kidney function, blood lipid)	Service included in EPHS matches service included in HBP	Repeated blood tests for electrolytes and glucose, lipid profile
	Urine analysis	Service included in EPHS matches service included in HBP	Urine culture
	Pathology (sputum)	Service included in EPHS matches service included in HBP	Sputum culture and sensitivity
	Serology	Service included in HBP fits within a broader category of services included in EPHS	Serum protein electrophoresis
	Radiology (x- ray, ultrasonography, dental x-ray)	Service included in HBP fits within a broader category of services included in EPHS	X- ray
	Ophthalmology (retinoscopy, refraction, ophthalmoscopy)	Service included in EPHS fits within a broader category of services included in HBP	Special investigations: B.Scan, fundus photograph, CT, MRI, clinical photograph, optical coherence tomography, Fundus Fluorescein angiography
	Blood cholesterol	Service included in EPHS fits within a broader category of services included in HBP	Special tests for evaluation of cause (echocardiography, nerve biopsy, CSF analysis, CT brain, ECG, EMG, MRI brain, MRV /MRA, NCS), blood culture, blood gases
	Cardiac investigations (ECG)	Service included in EPHS fits within a broader category of services included in HBP	Special investigations: ECG, Doppler, coronary angiography (CAG), 2D echocardiography, aortogram, angiogram, post percutaneous transluminal coronary angioplasty (PTCA) CAG, barium studies, spiral CT
	Stool analysis	Service included in EPHS but not included in HBP	
	Microbiology (smear, gram stain)	Service included in EPHS but not included in HBP	
Surgical services	Fracture reduction and putting splints/plaster cast	Service included in EPHS matches service included in HBP	Fracture correction surgeries/procedures
	Vasectomy, tubectomy (including laparoscopic tubectomy), MTP, hydrocelectomy	Service included in EPHS but not included in HBP	
		Service included in HBP but not included in EPHS	General surgery: head and neck, breast, abdomen, liver, gall bladder, adrenals, spleen (see package list for more detail)
		Service included in HBP but not included in EPHS	ENT surgery: ear, throat, nose, foreign body removal (see package list for more detail)

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Surgical services		Service included in HBP but not included in EPHS	Ophthalmology surgery: cornea and sclera, vitreo-retina, orbit, squint correction surgery, lid surgery (see package list for more detail)
		Service included in HBP but not included in EPHS	Pediatric ophthalmic surgery (see package list for more detail)
		Service included in HBP but not included in EPHS	Pediatric surgery (see package list for more detail)
		Service included in HBP but not included in EPHS	Gynecology and obstetrics surgery (see package list for more detail)
		Service included in HBP but not included in EPHS	Orthopedic surgery and procedures: Fracture correction surgeries/procedures, dislocations, amputations (non-traumatic), bone and joint surgery/ procedures, spine surgery, soft tissue surgery, tumor surgery (see package list for more detail)
		Service included in HBP but not included in EPHS	Surgical gastroenterology: emergency, esophagus, stomach, small intestine, large intestine, ulcerative colitis, liver, gall bladder, spleen, pancreas, hernia, liver surgeries, pancreatic surgeries (see package list for more detail)
		Service included in HBP but not included in EPHS	Cardiac and cardiothoracic surgeries: cardiac interventions/ procedures, cardiothoracic and vascular surgeries (see package list for more detail)
		Service included in HBP but not included in EPHS	Genito urinary surgeries (see package list for more detail)
		Service included in HBP but not included in EPHS	Neurosurgery (see package list for more detail)
		Service included in HBP but not included in EPHS	Surgical oncology (see package list for more detail)
		Service included in HBP but not included in EPHS	Plastic surgery (see package list for more detail)
		Service included in HBP but not included in EPHS	Cochlear implant surgery (see package list for more detail)
	Service included in HBP but not included in EPHS	Prosthesis (see package list for more detail)	
Outpatient, generic	OPD services and IPD services: General, medicine, surgery, obstetrics and gynecology, pediatrics, dental and AYUSH services	Service included in HBP fits within a broader category of services included in EPHS	General medicine (see package list for more detail)

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Inpatient, generic	OPD Services and IPD Services: general, medicine, surgery, obstetrics and gynecology, pediatrics, dental and AYUSH services	Service included in EPHS but not included in HBP	
	Treatment for minor ailments: first aid including first aid to animal bite cases, wound care, tourniquet (in snake bite), assessment and referral	Service included in HBP fits within a broader category of services included in EPHS	Medical management of snake bite requiring ventilator support Medical management of scorpion sting requiring ventilator support
Emergency services	Handling of all emergencies: poisonings	Service included in HBP fits within a broader category of services included in EPHS	Medical management of poisoning requiring ventilatory assistance
	Handling of all emergencies: hemorrhagic fever, cerebral malaria and others like dog and snake bite cases, congestive heart failure, left ventricular failure, meningoenephalitis, acute respiratory conditions, status epilepticus, burns, shock, acute dehydration, etc.	Service included in HBP fits within a broader category of services included in EPHS	Intensive care management of septic shock
	Handling of all emergencies: dengue	Service included in EPHS but not included in HBP	
	Handling of all emergencies: pneumonias	Service included in EPHS but not included in HBP	
	Handling of all emergencies: dog and snake bite cases	Service included in EPHS but not included in HBP	
	Handling of all emergencies: burns	Service included in EPHS but not included in HBP	
	Treatment for minor ailments: fever	Service included in EPHS but not included in HBP	
	Treatment for minor ailments: diarrhea, ARI, worm infestation	Service included in EPHS but not included in HBP	
		Service included in HBP but not included in EPHS	Critical care (see package list for more detail)
		Service included in HBP but not included in EPHS	Poly trauma (see package list for more detail)
Other public health services	Health communication especially as related to national health programs through attending Village Health Sanitation and Nutrition Committee meetings, ASHA local review meetings and meetings with panchayat members/sarpanch, self-help groups, women's groups and other BCC activities	Service included in EPHS but not included in HBP	

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Other public health services	Collection and reporting of vital events (birth, death, marriage)	Service included in EPHS but not included in HBP	
	Health communication to mothers, adolescents and other members of the community who attend the village health and nutrition day for whatever reason	Service included in EPHS but not included in HBP	
	Disinfection of water sources and promotion of sanitation including use of toilets and appropriate garbage disposal	Service included in EPHS but not included in HBP	
	Visits to support accredited social health activists where further counseling is needed to persuade a family to utilize required health services, e.g., immunization dropouts, antenatal care dropouts, TB defaulter etc.	Service included in EPHS but not included in HBP	
	Provision of first aid and referral services for cases with oral health problems	Service included in EPHS but not included in HBP	
	Health education on prevention of disability	Service included in EPHS but not included in HBP	
	Referral of sick old persons to PHC	Service included in EPHS but not included in HBP	
	Counseling of elderly persons and their family members on healthy ageing	Service included in EPHS but not included in HBP	
Specialized services		Service included in HBP but not included in EPHS	Medical oncology (see package list for more detail)
		Service included in HBP but not included in EPHS	Radiation oncology (see package list for more detail)
		Service included in HBP but not included in EPHS	Cardiology (see package list for more detail)
		Service included in HBP but not included in EPHS	Nephrology (see package list for more detail)
		Service included in HBP but not included in EPHS	Neurology (see package list for more detail)
		Service included in HBP but not included in EPHS	Rheumatology (see package list for more detail)
		Service included in HBP but not included in EPHS	Endocrinology and other endocrinal disorders* (see package list for more detail)
		Service included in HBP but not included in EPHS	Gastroenterology (see package list for more detail)

*Listed as separate items in HBP

TABLE 4: VAJPAYEE AROGYASHRI SCHEME (VAS) CROSSWALK ANALYSIS

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Family Planning and Reproductive Health		
Identify suspected reproductive tract infections/sexually transmitted infections (RTI/STI) case, provide counseling, basic management and referral services.	Service included in EPHS but not included in HBP	
Diagnosis of RTI/STDs with wet mounting, gram stain, etc.	Service included in EPHS but not included in HBP	
Education, motivation, and counseling to adopt appropriate family planning methods	Service included in EPHS but not included in HBP	
Family planning counseling and distribution of contraceptives	Service included in EPHS but not included in HBP	
Provision of contraceptives such as condoms, oral pills, emergency contraceptives, intrauterine contraceptive devices (IUD) insertions	Service included in EPHS but not included in HBP	
Follow-up services to the eligible couples adopting any family planning methods (terminal/spacing)	Service included in EPHS but not included in HBP	
Counseling and appropriate referral for safe abortion/ medical termination of pregnancy services	Service included in EPHS but not included in HBP	
Follow-up for any complication after abortion/ medical termination of pregnancy and appropriate referral if needed	Service included in EPHS but not included in HBP	
Education, counseling, and referral for adolescents (sexual concerns, pregnancy, contraception, abortion, menstrual problems, etc.)	Service included in EPHS but not included in HBP	
Prevention and treatment of anemia among adolescents	Service included in EPHS but not included in HBP	
Counseling on harmful effects of tobacco and its cessation for adolescents	Service included in EPHS but not included in HBP	
Condom promotion and distribution of condoms to the high-risk groups	Service included in EPHS but not included in HBP	
Rapid plasma reagin (RPN) test for syphilis	Service included in EPHS but not included in HBP	
Vasectomy, tubectomy (including laparoscopic tubectomy), MTP, hydrocelectomy	Service included in EPHS but not included in HBP	
Malaria		
Malaria chemoprophylaxis in malaria endemic zones for pregnant women	Service included in EPHS but not included in HBP	
Detection, control, and reporting of malaria	Service included in EPHS but not included in HBP	
Home visits to take blood slides/do rapid diagnostic test in cases with fever where malaria is suspected	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Rapid diagnostic tests (RDT) for diagnosis of Plasmodium falciparum malaria in high Plasmodium falciparum endemic areas	Service included in EPHS but not included in HBP	
Appropriate anti-malarial treatment	Service included in EPHS but not included in HBP	
Promotion of use of insecticidal treated nets, wherever supplied	Service included in EPHS but not included in HBP	
Tuberculosis		
Visits to community-based DOTS providers	Service included in EPHS but not included in HBP	
Referral of suspected symptomatic cases to the PHC/Microscopy center	Service included in EPHS but not included in HBP	
Provision of DOTS at sub-center, proper documentation and follow-up (ensure compliance and completion of treatment in all cases)	Service included in EPHS but not included in HBP	
Sputum collection centers established in sub-center for collection and transport of sputum samples in rural, tribal, hilly and difficult areas of the country where designated microscopy centers are not available	Service included in EPHS but not included in HBP	
Sputum testing for mycobacterium	Service included in EPHS but not included in HBP	
HIV/AIDS		
Counseling and referral for HIV/AIDS (screening in districts where the prevalence of HIV/AIDS is high)	Service included in EPHS but not included in HBP	
Symptom-based care and counseling with referral if needed for STI/RTI and for HIV/AIDS suspected cases	Service included in EPHS but not included in HBP	
Help and guide patients with HIV/AIDS receiving ART with focus on adherence	Service included in EPHS but not included in HBP	
IEC activities to enhance awareness and preventive measures about STIs and HIV/AIDS, prevention of parent to child transmission services and HIV-TB coordination	Service included in EPHS but not included in HBP	
Pre- and post-test counseling of AIDS patients by PHC staff in high prevalence states	Service included in EPHS but not included in HBP	
Maternal Health		
Antenatal care visits (minimum 4 visits including registration)	Service included in EPHS but not included in HBP	
General examination such as height, weight, BP, anemia, abdominal examination, breast examination	Service included in EPHS but not included in HBP	
Iron and folic acid supplementation	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Injection tetanus toxoid	Service included in EPHS but not included in HBP	
Treatment of anemia	Service included in EPHS but not included in HBP	
Minimum laboratory investigations like urine test for pregnancy confirmation, hemoglobin estimation, urine for albumin and sugar and linkages with PHC for other required tests	Service included in EPHS but not included in HBP	
Identification of high-risk pregnancy cases	Service included in EPHS but not included in HBP	
Identification and management of danger signs during pregnancy and labor	Service included in EPHS but not included in HBP	
Identification and basic first aid treatment for postpartum hemorrhage , eclampsia, sepsis and prompt referral of such cases	Service included in EPHS but not included in HBP	
Malaria prophylaxis in malaria endemic zones for pregnant women	Service included in EPHS but not included in HBP	
Counseling on diet, rest, tobacco cessation if the antenatal mother is a smoker or tobacco user	Service included in EPHS but not included in HBP	
Advice on institutional deliveries, pre-birth preparedness and complication readiness, danger signs, clean and safe delivery at home, postnatal care and hygiene, nutrition, care of newborn, registration of birth, initiation of breast feeding, exclusive breast feeding for 6 months, demand feeding, supplementary feeding (weaning and starting semi-solid and solid food) from 6 months onwards, infant and young child feeding and contraception	Service included in EPHS but not included in HBP	
Managing labor using partograph	Service included in EPHS but not included in HBP	
Management of normal deliveries	Service included in EPHS but not included in HBP	
Assisted vaginal deliveries including forceps/ vacuum delivery whenever required	Service included in EPHS but not included in HBP	
Essential and emergency obstetric care including surgical interventions like caesarean sections and other medical interventions	Service included in EPHS but not included in HBP	
Manual removal of placenta	Service included in EPHS but not included in HBP	
Minimum 24 hours of stay of mother and baby after delivery at a sub-center	Service included in EPHS but not included in HBP	
Postnatal home visits on 0,3,7 and 42 nd day for deliveries at home, sub-center and institutional deliveries (both for mother and baby)	Service included in EPHS but not included in HBP	
Counseling on diet and rest, hygiene, contraception, essential newborn care, immunization, infant and young child feeding, STI/RTI and HIV/AIDS	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Newborn Health		
Advice regarding care of the mother and care and feeding of the newborn and examination of the newborn for signs of sickness and congenital abnormalities	Service included in EPHS but not included in HBP	
Essential Newborn Care: maintain body temperature, maintain the airway and breathing, initiate breast feeding within one hour, infection protection, cord care, and care of the eyes	Service included in EPHS but not included in HBP	
Management of neonatal hypothermia	Service included in EPHS but not included in HBP	
Counseling on exclusive breast feeding for 6 months	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Neonatal surgeries: gastro intestinal tract, genito-urinary surgeries, thorax, oncology, head and neck, vascular
Child Health (1-5 years) (including immunization)		
Assess the growth and development of the infants and under 5 children and make timely referral	Service included in EPHS but not included in HBP	
Full immunization of all infants and children against vaccine preventable diseases (TT 1, 2, booster, BCG, hepatitis B, OPV (oral polio vaccine), DPT, measles, vitamin A, Japanese encephalitis	Service included in EPHS but not included in HBP	
Vitamin A prophylaxis to children	Service included in EPHS but not included in HBP	
Prevention and control of childhood diseases like malnutrition, infections, ARI, diarrhea, fever, anemia etc. including IMNCI (integrated management of neonatal and childhood illnesses) strategy	Service included in EPHS but not included in HBP	
Identification and follow-up, referral and reporting of adverse events following immunization	Service included in EPHS but not included in HBP	
Screening, treatment of minor ailments, immunization, de-worming, prevention and management of vitamin A and nutritional deficiency, anemia and referral services through fixed day visit of school	Service included in EPHS but not included in HBP	
Weekly supervised distribution of iron-folate tablets coupled with education about the issue	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Other Communicable Disease		
Assisting in detection, control, and reporting of local endemic diseases such as malaria, kala azar, Japanese encephalitis, filariasis, dengue, etc.	Service included in EPHS but not included in HBP	
Assistance in control of epidemic outbreaks	Service included in EPHS but not included in HBP	
Visits to leprosy depot holders	Service included in EPHS but not included in HBP	
House-to-house surveys to identify persons with skin lesions or other symptoms suspicious of leprosy and refer: essential in high leprosy prevalence blocks	Service included in EPHS but not included in HBP	
Health education to community regarding signs and symptoms of leprosy, its complications, curability and availability of free of cost treatment	Service included in EPHS but not included in HBP	
Referral of suspected cases of leprosy (person with skin patch, nodule, thickened skin, impaired sensation in hands and feet with muscle weakness) and its complications to PHC	Service included in EPHS but not included in HBP	
Provision of subsequent doses of multidrug therapy and follow-up of persons under treatment for leprosy	Service included in EPHS but not included in HBP	
Annual mass drug administration with single dose of Diethyl carbamazine (DEC) to all eligible population at risk of lymphatic filariasis	Service included in EPHS but not included in HBP	
Collection of blood slides of fever patients	Service included in EPHS but not included in HBP	
Where filaria is endemic, identification of cases of lymphedema/elephantiasis and hydrocele and their referrals to PHC/CHC for appropriate management	Service included in EPHS but not included in HBP	
Prevention of breeding places of vectors through IEC (Information Education and communication) and community mobilization	Service included in EPHS but not included in HBP	
Drugs		
Basic medicines to take care of common ailments, prevalent among young school children	Service included in EPHS but not included in HBP	
Non-Communicable Disease		
Treatment and timely referral (complicated cases) of diabetes mellitus, hypertension, ischemic and congestive heart failure, etc.	Service included in EPHS but not included in HBP	
House-to-house surveys to identify persons with blindness, list, and refer	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Identify persons with hearing impairment/deafness, list, and refer	Service included in EPHS but not included in HBP	
Cataract cases brought to the district hospital	Service included in EPHS but not included in HBP	
Assisting for screening of school children for diminished vision and referral	Service included in EPHS but not included in HBP	
Education of community especially the parents of young children regarding importance of right feeding practices, early detection of deafness in young children, common ear problems and available treatment for hearing impairment/deafness	Service included in EPHS but not included in HBP	
Identify persons with disabilities, list and refer and call for counseling where needed.	Service included in EPHS but not included in HBP	
Identify and list senior citizens who need special care and support.	Service included in EPHS but not included in HBP	
Identify persons with mental health problems and epilepsy; list and refer	Service included in EPHS but not included in HBP	
IEC activities for prevention and early detection of mental disorders	Service included in EPHS but not included in HBP	
IEC activities to promote healthy lifestyle sensitize the community about prevention of cancers, diabetes, cardiovascular disease and strokes, early detection through awareness regarding warning signs and appropriate and prompt referral of suspect cases	Service included in EPHS but not included in HBP	
IEC activities to promote consumption of iodized salt by the community	Service included in EPHS but not included in HBP	
Identify persons at risk of fluorosis, suffering from fluorosis and those having deformities due to fluorosis and referral	Service included in EPHS but not included in HBP	
Line listing of reconstructive surgery cases, rehabilitative intervention activities and referral services. Focused behavior change communication activities to prevent fluorosis	Service included in EPHS but not included in HBP	
Spread awareness and health education regarding ill effects of tobacco use especially in pregnant females and non-communicable diseases where tobacco is a risk factor, e.g., cardiovascular disease, cancers, chronic lung diseases	Service included in EPHS but not included in HBP	
Counseling for quitting tobacco. Spread awareness regarding law on smoke-free public places	Service included in EPHS but not included in HBP	

Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Other		
Diagnostic services	Service included in EPHS matches service included in HBP	ECG, 2D ECHO, CAG stills showing blocks and reports, angiogram report and stills
	Service included in HBP fits within a broader category of services included in EPHS	Serum creatinine
	Service included in HBP fits within a broader category of services included in EPHS	X-ray, Doppler, ultra-sonography, MRI, CT scan
	Service included in EPHS fits within a broader category of services included in HBP	Hematology, bone marrow aspiration/flow cytometry, biopsy/ fine needle aspiration cytology report, prothrombin time, international normalized ratio (INR), Hb, clotting time, hemogram
	Service included in EPHS but not included in HBP	
	Service included in EPHS but not included in HBP	
	Service included in EPHS but not included in HBP	
	Service included in EPHS but not included in HBP	
	Service included in EPHS but not included in HBP	
	Service included in EPHS but not included in HBP	
	Service included in EPHS but not included in HBP	
	Service included in EPHS but not included in HBP	
	Service included in HBP but not included in EPHS	Cardiothoracic surgery (see package listing for more detail)
	Service included in HBP but not included in EPHS	Cardiovascular surgery (see package listing for more detail)
Service included in HBP but not included in EPHS	Cardiology interventional radiological therapeutic procedure	
Service included in HBP but not included in EPHS	Neonatal surgeries: gastro intestinal tract, genitourinary surgeries, thorax, oncology, head and neck, vascular (see package listing for more detail)	

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Diagnostic services		Service included in HBP but not included in EPHS	Neuro surgery: brain, spine, atlanto axial dislocation, General neuro surgery (see package listing for more detail)
		Service included in HBP but not included in EPHS	Oncology: brain and spine, head and neck, breast, lungs, GI tract and esophagus, genitourinary surgery, gynecology, bone and soft tissue, blood - pediatrics and others
		Service included in HBP but not included in EPHS	Polytrauma
		Service included in HBP but not included in EPHS	Genitourinary surgery
Emergency services	Handling of all emergencies like dengue, hemorrhagic fever, cerebral malaria and others like dog and snake bite cases, poisonings, congestive heart failure, left ventricular failure, pneumonias, meningoenephalitis, acute respiratory conditions, status epilepticus, burns, shock, acute dehydration, etc.	Service included in HBP fits within a broader category of services included in EPHS	Burns (see package listing for more detail)
	Treatment for minor ailments including fever, diarrhea, ARI, worm infestation and first aid including first aid to animal bite cases (wound care, tourniquet (in snake bite) assessment and referral)	Service included in EPHS but not included in HBP	
	Fracture reduction and putting splints/plaster cast	Service included in EPHS but not included in HBP	
Other public health services	Health communication especially as related to national health programs through attending village health sanitation and nutrition committee meetings, ASHA local review meetings and meetings with panchayat members/ sarpanch, self-help groups, women's groups and other BCC activities	Service included in EPHS but not included in HBP	
	Collection and reporting of vital events (birth, death, marriage)	Service included in EPHS but not included in HBP	
	Health communication to mothers, adolescents and other members of the community who attend the village health and nutrition day for whatever reason	Service included in EPHS but not included in HBP	
	Disinfection of water sources and promotion of sanitation including use of toilets and appropriate garbage disposal	Service included in EPHS but not included in HBP	

	Service listed in the EPHS	Degree of alignment between EPHS and HBP	Service listed in the HBP
Other public health services	Visits to support accredited social health activists where further counseling is needed to persuade a family to utilize required health services, e.g., immunization dropouts, antenatal care dropouts, TB defaulter, etc.	Service included in EPHS but not included in HBP	
	Providing first aid and referral services for cases with oral health problems	Service included in EPHS but not included in HBP	
	Health education on prevention of disability	Service included in EPHS but not included in HBP	
	Referral of sick elderly persons to PHC	Service included in EPHS but not included in HBP	
	Counseling of elderly persons and their family members on healthy aging	Service included in EPHS but not included in HBP	
	Locally available medicinal herbs/plants should be grown around the sub-center	Service included in EPHS but not included in HBP	
Specialized services		Service included in HBP but not included in EPHS	Cardiology

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