Table S1 113 verbal autopsy indicators applicable to neonatal deaths in InterVA and their availability (✓) in the peri/neonatal VA questionnaire used in each site.

VA Indicator	Dhanusha	MaiMwana	Ekjut	PCP	Maikhanda	Makwanpur	SNEHA
Was the deceased male?	√	✓	√	√	✓	✓	√
Was the deceased female?	√	√	✓	√	✓	√	√
Was (s)he aged 28 days or less at		,	<u> </u>			·	<u> </u>
death?	✓	✓	✓	√	✓	✓	✓
Did the baby die within 24 hours of	•	<u> </u>	<u> </u>		 •	, , , , , , , , , , , , , , , , , , ,	,
birth?	✓	✓	✓	√	✓	√	✓
Did baby die more than 24 hours		,	<u> </u>			·	<u> </u>
after but less than 48 hours from							
birth?	✓	✓	✓	✓	✓	✓	✓
Did baby die more than 48 hours	,	,			,		,
from birth but within the first week							
of life?	✓	✓	✓	√	✓	✓	✓
Did baby die after first week, but	<u> </u>	,		,	,		,
within first 28 days?	✓	✓	✓	√	✓	✓	✓
Was there any diagnosis of	,	,	,	,	ŕ		,
Measles?							
Did (s)he die during the wet							
season?	✓	✓	✓	✓	✓	✓	✓
Did (s)he die during the dry		·			•		
season?	✓	✓	✓	√	✓	✓	✓
Did (s)he have a fever?	√	√	√	√	✓	√	√
Did (s)he have fever for less than 2	, v	•	V	-	+	V	V
weeks before death?	✓	√	✓	✓	✓	√	√
	V	•	V	· ·	V	V	V
Did (s)he have fever for 2 weeks or more before death?	✓	√	✓	✓	✓	√	√
	,	V			+		V
Did (s)he have a cough?			✓	✓		✓	
Did (s)he have a cough for less than						,	
3 weeks before death?						✓	
Did (s)he make a whooping sound							
when coughing?							
Did (s)he have any breathing problem?	✓	√	✓	✓	√	√	✓
•							
Did (s)he have fast breathing?	✓	✓	✓	✓	✓	✓	✓
Did (s)he have fast breathing for							
less than 2 weeks?		✓			✓	✓	✓
Did (s)he have breathlessness?							✓
Did (s)he have breathlessness for							
less than 2 weeks?							✓
Did you see the lower chest							
wall/ribs being pulled in as the							
child breathed?	✓	✓	✓	✓	✓		✓
Did (s)he have noisy breathing							
(grunting or wheezing)?	✓	✓		✓		✓	✓
Did (s)he have diarrhoea?	✓	✓	✓	✓	✓	✓	✓
Did (s)he have diarrhoea for less							
than 2 weeks?	✓	✓	✓	✓	✓	✓	✓
Did (s)he have diarrhoea for 2 to 4							
weeks?	✓	✓	✓	✓	✓	✓	✓
At any time during the final illness							
was there blood in the stools?	✓	✓	✓	✓	✓	✓	
Did (s)he vomit?	✓	✓	✓	✓	✓	✓	✓

Did (-) it ff d -	I	1					
Did (s)he vomit "coffee grounds" or							
bright red/blood?							
Did (s)he have any abdominal							
problem?			✓	✓		✓	✓
Did (s)he have a more than usually							
protruding abdomen?				✓			✓
Did (s)he have a more than usually							
protruding abdomen for less than 2							
weeks?							
Did (s)he have convulsions?	✓	✓	✓	✓	✓	✓	✓
Did the convulsions last for less							
than 10 minutes?							
Did the convulsions last for 10							
minutes or more?							
Did (s)he have any skin problems?	✓		√	√	√	√	√
Did (s)he have any ulcers, abscess							
or sores anywhere except on the							
feet?							
Did (s)he have any ulcers, abscess							
or sores on the feet that were not							
also on other parts of the body?							
During the illness that led to death,							
did (s)he have any skin rash?	✓	✓			✓		
Did (s)he have the skin rash for less							
than 1 week?							
Did (s)he have the skin rash for 1							
week or more?							
Did (s)he have measles rash?							
Did (s)he have yellow discoloration	√						
of the eyes?	V	✓			✓	√	✓
Did (s)he look pale (thinning/lack of							
blood) or have pale palms, eyes or							
nail beds?							
Was the child part of a multiple	,						
birth?	✓	✓	√	✓	V	V	V
Was the child born in a	,						
complicated delivery?	✓	✓	✓	✓	✓	✓	✓
Was the baby born 24 hours or	,						
more after the water broke?	✓			✓		✓	✓
Did the baby stop moving in the	,						
womb before labour started?	✓	✓	✓	✓			
Was baby born in a normal vaginal	,						
delivery?	✓	✓	✓	✓	✓	✓	✓
Was baby born with		_				,	
forceps/vacuum?	✓	✓	✓	✓	✓	✓	✓
Was baby delivered by Caesarean			,		,	,	
section?	✓	✓	✓	✓	✓	✓	✓
Did the baby's bottom, feet, arm or							
hand come into the vagina before							
its head?	✓	✓	✓	✓	✓	✓	✓
Was the baby of abnormal size?	✓	✓	✓	✓	✓	✓	✓
Was the baby smaller than normal,							
weighing under 2.5 kg?	✓	✓	✓	✓	✓	✓	✓
Was the baby larger than normal,							
weighing over 4.5 kg?	✓	✓	✓	✓	✓	✓	✓
	•	•	•		•		

Had the pregnancy lasted less than							
34 weeks when the baby was born?							
	✓	✓	✓	✓	✓	✓	✓
Had the pregnancy lasted between							
34 and 37 weeks when the baby							
was born?	✓	✓	✓	✓	✓	✓	✓
Had the pregnancy lasted more							
than 37 weeks when the baby was							
born?	✓	✓	✓	✓	✓	✓	✓
Was the umbilical cord wrapped							
several times (more than once)							
around the neck of the child at							
birth?							✓
Did the baby/the child have any							
noticeable malformation?	✓	✓	✓	✓	✓	✓	✓
Did the baby/the child have a							
swelling/defect on the back?	✓	✓	✓	✓	✓		✓
Did the baby/the child have a very							
large head?							
Did the baby/the child have a very							
small head?	✓	✓	✓	✓	✓	✓	✓
Was the baby blue in colour at							
birth?			✓	✓		✓	
Did the baby cry after birth, even if							
only a little bit?	✓	✓		✓		✓	✓
Did the baby breathe after birth,							
even a little?	✓	✓	✓	✓	✓	✓	✓
Was the baby given assistance to							
breathe at birth?	✓	✓	✓	✓	✓	✓	✓
If the baby did not cry or breathe,							
was it born dead?	✓	✓	✓	✓	✓	✓	✓
Was the dead baby macerated,							
that is, showed signs of decay?	✓	✓	✓	✓	✓	✓	✓
Was the baby able to suckle or							
bottle-feed within the first 24							
hours after birth?	✓	✓	✓	✓	✓	✓	✓
Did the baby stop suckling or bottle							
feeding 3 days after birth?	✓	✓	✓	✓	✓		✓
Did the baby have convulsions							
starting within the first day of life?	✓	✓	✓	✓	✓	✓	✓
Did the baby have convulsions							
starting on the second day or later							
after birth?	✓	✓	✓	✓	✓	✓	✓
Did the baby's body become stiff,							
with the back arched backwards?							
	✓	✓	✓	✓	✓	✓	√
Did the child have a bulging or							
raised fontanelle?	✓	✓	✓	√	✓	✓	✓
Did the child have a sunken							
fontanelle?	✓	✓	✓	✓	✓	✓	
Did the baby become unresponsive							
or unconscious soon after birth							
(within less than 24 hours)?	✓	✓	✓	✓			✓
Did the baby become unresponsive							
or unconscious more than 1 day							
after birth?		√	✓	✓			√
Did the baby become cold to the							
touch before it died?	✓	✓	✓	✓	✓	✓	✓

		ı		1		1	
Did the baby have redness or							
discharge from the umbilical cord							
stump?	✓	✓	✓	✓	✓	✓	✓
Did the baby have yellow palms or							
soles?	✓	✓	✓	✓			✓
Did the mother NOT receive							
tetanus toxoid (TT) vaccine?			✓	✓			
Was this baby born from the							
mother's first pregnancy?			✓	✓		✓	✓
Did the mother have 4 or more							
births before this baby was born?			✓	✓			✓
During pregnancy, did the baby's							
mother suffer from high blood							
pressure?			✓			✓	✓
Did the baby's mother have foul							
smelling vaginal discharge during							
pregnancy or after delivery?			✓	✓		✓	
During the last 3 months of							
pregnancy, did the baby's mother							
suffer from convulsions?			✓	✓		✓	✓
During the last 3 months of					1		
pregnancy did the baby's mother							
suffer from blurred vision?			✓	✓		✓	
Did the baby's mother have vaginal			1				
bleeding during the last 3 months							
of pregnancy but before labour							
started?			✓	✓		✓	√
Was the child born in a health			+	,		,	,
facility?	✓	✓	✓	✓	✓	✓	√
Was the child born at home?	<i>√</i>	√ ·	· ✓	<i>√</i>	· ✓	<i>√</i>	<i>√</i>
	· ·	V	V	V	· ·	V	V
Was the child born somewhere							
else, e.g. on the way to a facility?	✓	✓		√	✓	✓	✓
Did the mother receive							
professional assistance during the							
delivery?	✓	✓	√	√	√	✓	✓
Did (s)he suffer from any injury or							
accident that led to her/his death?	✓		✓	✓	✓	✓	✓
Was it a road traffic accident?	✓						
Was (s)he Injured in a non-road							
transport accident?							
Was (s)he Injured in a fall?	√						
Did (s)he die of drowning?	√						
			1				
Did (s)he suffer from burns?	✓						
Did (s)he suffer from any plant/							
animal/insect bite or sting that led							
to her/his death?	✓						
Was (s)he injured by a force of							
nature?							
Was there any poisoning?	✓				<u> </u>		
Was (s)he subject to							
violence/assault?							
Was the injury intentionally							
inflicted by someone else?							
Was (s)he adequately vaccinated?	√	√			√		
Did (s)he receive any treatment for	1				1		
the illness that led to death?	✓						√
and initias that ica to acatif;	I .	<u> </u>	1	1	<u>I</u>	<u> </u>	

Did (s)he receive oral rehydration salts?				
Did (s)he receive (or need)				
intravenous fluids (drip)				
treatment?				✓
Did (s)he receive (or need) a blood				
transfusion?				
Did (s)he receive (or need)				
injectable antibiotics?				
Did (s)he have (or need) an				
operation for the illness?				
Did (s)he have the operation within				
1 month before death?				
Was (s)he discharged from hospital		•		
very ill?				