Contact name:		Horse Name:
First nan	ne Surname	



APPENDIX: HENDRA VIRUS (CONFIRMED ANIMAL CASE) EXPOSURE ASSESSMENT FORM

Lueensland Government					PUBLIC HEALTH UNI	Т
					Date://	
BACKGROUND						
This contact history and exexposure and to help plan virus transmission. The doc	management. The fo	orm, especially eler	ments of the e	xposure assess	ment, is based on current	
CONTACT DETAILS:		UR No:				
Name:						
Data of himth.	First name	A V	Months		urname	
Name of parent/carer:		•			☐ Male ☐ Female	
•						□ Unknown
-		•			hnicity – specify:	
Permanent Address:	-					
					Pos	tcode:
					« Telephone:	
•						
		,			Pos	
·						
Address:					Pos	code:
Telephone:	Fax:		Email	·		
MEDICAL DETAILS						
Has the person become	unwell in recent d	ave2 🗖 V	es □ No	On	set date:	
☐ Systemic ☐ Respir		-	=s □ NO - specify	On	set date/	
	atory 🗀 Neurolo	gicai 🔲 Other	- specify			
Immunocompromised?	☐ Yes ☐ No	☐ Unknown	Details:			
Known allergies?	☐ Yes ☐ No	☐ Unknown	Details:			
Chronic illness?	□ Yes □ No	□ Unknown	Details:			
Current Medications:						
Other significant history	•					
INFECTED HORSE DE	TAILS					
Common name and raci	ng/stud name of h	orse:			Location:	
Association to horse:] Owner □ Rider	. □ Stable han	d □ Vet	☐ Farrier	☐ Other – specify	
EXPOSURE PERIOD						
Onset of horse illness:	//					
Infectious period for ho		/		to	Date: / /	
zationa porion for flor		of symptoms minu	ıs 72 hours)		(Date of carcass di	
Location of exposure:	☐ Infected Pro	perty 🗖 Elsew	here – speci	fy:		
Has contact ceased?	□ Yes □ No					

Contact name:		Horse Name:
First name	Surname	

EXPOSURE ASSESSMENT

1. EXPOSURE ASSESSMENT

NOTES FROM CONVERSATION WITH CONTACT

Indicate that from here, the interview will consist of two more parts. First, you will ask the contact to describe in their own words their contact with each horse. You will then ask a series of questions to explore the exposures in detail in the second part. Make notes that you can highlight or refer back to. Try to capture the nature, magnitude, proximity, duration and frequency of exposures to body fluids. Include details of dates and times. Complete a separate page for each horse if necessary.

Vet specific questions: Can you describe exactly how you examined the horse and what procedures you did? Did you palpate the gums? What samples did you take? What did you do with the syringes and tubes? Did you use any disinfectants? Which? When do you think the horse developed signs of Hendra infection? Do you think any of the other horses on the property have been at risk from this horse?

Property owner/horse owner/primary horse handler specific questions: When do you think the horse developed signs of Hendra infection? Do you think any of the other horses on the property have been at risk from this horse? Are there any other people who may have visited the property or touched the horse across the fence?

COMMENTS:

NOTES FOR FOLLOWING EXPOSURE ASSESSMENT SECTIONS

2. EXPOSURE ASSESSMENT - BIOSECURITY QUEENSLAND STAFF

BIOSECURITY QUEENSLAND STAFF - INFECTION CONTROL including PPE

This section is to be completed <u>first</u> for BQ staff who will be expected to have complete infection control but should be completed to provide epidemiological detail and may trigger memories of incomplete infection control including mishaps.

3. EXPOSURE ASSESSMENT

This section includes three questionnaires, allowing focus on three different aspects of contact with the horse during its illness:

- General horse handling: Administer this questionnaire to anyone who undertook activities such as patting, feeding, and grooming, and cleaning stables.
- **Procedures:** Administer this questionnaire to anyone who performed or assisted with procedures such as taking blood or other specimens, veterinary examinations and procedures.
- **Terminal event:** Covers the period of the horse's final event (death by illness or euthanasia). This questionnaire should be administered to everyone who was present within 5m of the horse during this time.

COMPLETE A SEPARATE QUESTIONNAIRE FOR EACH HORSE

Contact name: First name Surname	Hors	e Name:	
2. EXPOSURE ASSESSMENT - BIOSECURITY QUEENSLAND STAFF BIOSECURITY QUEENSLAND STAFF - INFECTION CONTROL including	PPE		
HAND HYGIENE (bare skin)			
Was exposed skin intact?	□ Yes	□ No □ Unk	nown
Was hand hygiene always done after a procedure	☐ Yes	□ No □ Unk	nown
Was hand hygiene always done after body substance exposure risk	□ Yes	□ No □ Unk	nown
Was hand hygiene always done after handling the horse	☐ Yes	□ No □ Unk	nown
Was hand hygiene always done after handling horse's stable contents?	☐ Yes	□ No □ Unk	nown
Was hand hygiene satisfactory?	☐ Yes	□ No □ Unk	nown
GLOVE USE			
Were gloves always worn before direct contact with horse's blood or body subskin? ☐ Yes ☐ No ☐ Unknown	stances, m	ucous membranes	s and non-intact
If gloves were used, which type? □ Latex □ Nitrile □ Other <i>specify</i>			□ Unknown
Were gloves always worn before handling horse's equipment and stable conter	nts	□ Yes □ No	□ Unknown
Was glove use satisfactory?		□ Yes □ No	□ Unknown
MASK USE			
If masks were used, which type? e.g. P2, surgical, etc			
Did the wearer of the mask have a beard or other facial hair? ☐ Yes	s □ No	□ Unknown	
Did the wearer fit check the mask each time one was used? ☐ Yes	s □ No	□ Unknown	
Has the wearer been fit tested for the respirator? ☐ Yes	s □ No	□ Unknown	
Was mask use satisfactory? ☐ Yes ☐ No ☐ Unknown			
EXPOSURE SELF ASSESSMENT			
Were there any mishaps/lapses with infection control including PPE:	s □ No	□ Unknown	
Nature and cause of mishap – specify			
Nature of exposure e.g. route of exposure (saliva, blood, respiratory secretime or exposure – specify	tions, urine	e, faeces, other),	duration, activity at
3. Action in response to mishap/lapse – specify			
Subjective overall appraisal of quality of infection control practice including use	e of adequa	ate PPE: □ High	☐ Medium ☐ Low

COMMENTS:

Contact name:		Horse Name:
First name	Surname	

3. EXPOSURE ASSESSMENT

1. GENERAL HORSE HA	ANDLING DURING INFECTION	US PERIOD L	lse 1 column per encounter
Date of activity	Date/	Date/	Date/
	Time(s)	Time(s)	Time(s)
Activity	 □ Walked horse on lead □ Held head/other body part □ Patted horse □ Groomed horse □ Fed horse □ Inserted bit □ Kissed muzzle □ Kiss to body □ Cleaned horse equipment □ Cleaned stable □ Was within 5m but didn't touch horse □ Other 	 □ Walked horse on lead □ Held head/ other body part □ Patted horse □ Groomed horse □ Fed horse □ Inserted bit □ Kissed muzzle □ Kiss to body □ Cleaned horse equipment □ Cleaned stable □ Was within 5m but didn't touch horse □ Other 	 □ Walked horse on lead □ Held head/other body part □ Patted horse □ Groomed horse □ Fed horse □ Inserted bit □ Kissed muzzle □ Kiss to body □ Cleaned horse equipment □ Cleaned stable □ Was within 5m but didn't touch horse □ Other
1. How long did this activity last?	Time spent with horsemins / hours	Time spent with horse hours	Time spent with horsemins / hours
2. How close was their face to the	2metresmins	2metresmins	2metresmins
horse? How long? 3. Horse behaviour	3	3	3
& signs			
1. Did you get horse body fluid on you?	1.	1. Yes No Unknown Respiratory secretions Saliva Blood Urine Faeces Foaling fluids Other:	1. ☐ Yes ☐ No ☐ Unknown ☐ Respiratory secretions ☐ Saliva ☐ Blood ☐ Urine ☐ Faeces ☐ Foaling fluids ☐ Other:
2. Where? 3. Exposure to horse's equipment or stable contents?	2.	2. Intact skin	2. Intact skin
Were you using any protective equipment?	☐ Yes ☐ No ☐ Unknown ☐ Gloves ☐ Gown ☐ Overalls ☐ Surgical mask ☐ P2 mask ☐ Face shield ☐ Goggles ☐ Sunglasses ☐ Safety glasses ☐ Prescription glasses ☐ Pow'd air purifying resp.	☐ Yes ☐ No ☐ Unknown ☐ Gloves ☐ Gown ☐ Overalls ☐ Surgical mask ☐ P2 mask ☐ Face shield ☐ Goggles ☐ Sunglasses ☐ Safety glasses ☐ Prescription glasses ☐ Pow'd air purifying resp.	☐ Yes ☐ No ☐ Unknown ☐ Gloves ☐ Gown ☐ Overalls ☐ Surgical mask ☐ P2 mask ☐ Face shield ☐ Goggles ☐ Sunglasses ☐ Safety glasses ☐ Prescription glasses ☐ Pow'd air purifying resp.
How and when did you clean up? (e.g. hand hygiene, shower, changed clothes)			

Contact name:		Horse Name:
First name	Surname	

3. EXPOSURE ASSESSMENT

2. PROCEDURES DURI	NG INFECTIOUS PERIOD (LI	VE HORSE)	lse 1 column per encounter
Date of activity	Date/	Date/	Date/
	Time(s)	Time(s)	Time(s)
Activity	 ☐ Held head/other body part ☐ Took blood ☐ Biopsied mandibular gland ☐ Intubation ☐ Endoscopy specify ☐ Obstetric procedure ☐ Cleaned vet equipment ☐ Mouth to mouth resuscitation of foal ☐ Was within 5m but didn't touch horse ☐ Other 	 Held head/other body part □ Took blood □ Biopsied mandibular gland □ Intubation □ Endoscopy specify □ Obstetric procedure □ Cleaned vet equipment □ Mouth to mouth resuscitation of foal □ Was within 5m but didn't touch horse □ Other 	☐ Held head/other body part ☐ Took blood ☐ Biopsied mandibular gland ☐ Intubation ☐ Endoscopy specify ☐ Obstetric procedure ☐ Cleaned vet equipment ☐ Mouth to mouth resuscitation of foal ☐ Was within 5m but didn't touch horse ☐ Other
1. How long did this activity last?	Time spent with horsemins / hours	Time spent with horse mins / hours	Time spent with horsemins / hours
2. How close was their face to the horse? How long? 3. Horse behaviour & signs	2metresmins 3	2metresmins 3	2metresmins 3
1. Did you get horse body fluid on you?	1. Yes No Unknown Respiratory secretions Saliva Blood Urine Faeces Foaling fluids Other:	1. Yes No Unknown Respiratory secretions Saliva Blood Urine Faeces Foaling fluids Other:	1. Yes No Unknown Respiratory secretions Saliva Blood Urine Faeces Foaling fluids Other:
Where? 3. Exposure to berre/s equipment.	2. Intact skin	2. Intact skin	2. Intact skin
horse's equipment or stable contents?	3. □Yes □ No □ Unknown	3. ☐ Yes ☐ No ☐ Unknown	3. ☐ Yes ☐ No ☐ Unknown
Were you using any protective equipment?	☐ Yes ☐ No ☐ Unknown ☐ Gloves ☐ Gown ☐ Overalls ☐ Surgical mask ☐ P2 mask ☐ Face shield ☐ Goggles ☐ Sunglasses ☐ Safety glasses ☐ Prescription glasses ☐ Pow'd air purifying resp.	☐ Yes ☐ No ☐ Unknown ☐ Gloves ☐ Gown ☐ Overalls ☐ Surgical mask ☐ P2 mask ☐ Face shield ☐ Goggles ☐ Sunglasses ☐ Safety glasses ☐ Prescription glasses ☐ Pow'd air purifying resp.	☐ Yes ☐ No ☐ Unknown ☐ Gloves ☐ Gown ☐ Overalls ☐ Surgical mask ☐ P2 mask ☐ Face shield ☐ Goggles ☐ Sunglasses ☐ Safety glasses ☐ Prescription glasses ☐ Pow'd air purifying resp.
How and when did you clean up? (e.g. hand hygiene, shower, changed clothes)			

Contact name:		Horse Name:
First name	Surname	

3. EXPOSURE ASSESSMENT

3. IERMINAL EVENT (from shortly prior to death to	disposal of carcass)	Use 1 column per encounter
Date of activity	Date/	Date/	Date/
	Time(s)	Time(s)	Time(s)
Activity	 Held head/other body part Took blood Gave drug Was within 5m but didn't touch horse Cleaned up area where horse died Cleaned vet equipment. Carcass disposal. Other 	 Held head/other body part Took blood Gave drug Was within 5m but didn't touch horse Cleaned up area where horse died Cleaned vet equipment. Carcass disposal. Other 	
1. How long did this activity last? 2. How close was their face to the horse? How long? 3. Horse behaviour & signs	1. Time spent with horsemins / hours 2metresmins 3	1. Time spent with horsemins / hours 2metresmins 3	1. Time spent with horsemins / hours 2metresmins 3
Did you get horse body fluid on you?	1. Yes No Unknown Respiratory secretions Saliva Blood Urine Faeces	1. Yes No Unknown Respiratory secretions Saliva Blood Urine Faeces	1. Yes No Unknown Respiratory secretions Saliva Blood Urine Faeces
2. Where?	☐ Foaling fluids ☐ Other:	☐ Foaling fluids ☐ Other:	☐ Foaling fluids ☐ Other:
3. Exposure to horse's equipment	□ other □ Eyes □ Mouth □ Clothes	☐ other ☐ Eyes ☐ Mouth ☐ Clothes 3. ☐ Yes ☐ No ☐ Unknown	☐ other ☐ Eyes ☐ Mouth ☐ Clothes
or stable contents? Were you using any protective equipment?	☐ Yes ☐ No ☐ Unknown ☐ Gloves ☐ Gown ☐ Overalls ☐ Surgical mask ☐ P2 mask ☐ Face shield ☐ Goggles ☐ Sunglasses ☐ Safety glasses ☐ Prescription glasses ☐ Pow'd air purifying resp.	☐ Yes ☐ No ☐ Unknown ☐ Gloves ☐ Gown ☐ Overalls ☐ Surgical mask ☐ P2 mask ☐ Face shield ☐ Goggles ☐ Sunglasses ☐ Safety glasses ☐ Prescription glasses ☐ Pow'd air purifying resp.	☐ Yes ☐ No ☐ Unknown ☐ Gloves ☐ Gown ☐ Overalls ☐ Surgical mask ☐ P2 mask ☐ Face shield ☐ Goggles ☐ Sunglasses ☐ Safety glasses ☐ Prescription glasses ☐ Pow'd air purifying resp.
How and when did you clean up? (e.g. hand hygiene, shower, changed clothes)			

4. SUMMARY COMMENTS FROM INTERVIEWER
e.g. John had at least 2 face to face contacts (10 mins holding horse , 35 mins doing resp. endoscopy) with extensive exposures to respiratory secretions and blood. No PPE used and hand hygiene of intact skin 35 mins after
exposures to respiratory secretions and blood. No FFE ased and hand Tryglene of linder skill 33 thins after
5. UNCERTAINTY ASSESSMENT BY INTERVIEWER
5. UNCERTAINTY ASSESSMENT BY INTERVIEWER Relates to onset of symptoms in the horse (and therefore presumed infectious period) and likelihood of unrecorded exposures
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There is currently limited evidence about horse-to-human modes of transmission and translating exposure assessments into levels of risk. The following examples of exposure assessments are given to assist decision making by the team. Current epidemiological evidence is that Hendra virus infection has only occurred with those exposures described below as 'High'. If there are multiple exposure pathways (e.g. dermal exposures and mucous membrane exposures) select the highest ranked exposure from the exposure assessment table.

6. EXPOSURE ASSESSMENT

Contact name:

Surname

First name

Horse Name:

Contact name:		Horse Name:
First name	Surname	

6. EXPOSURE ASSESSMENT table		
Nature and magnitude of exposures	Assessment	Management
No exposure to dermis and/or mucous membranes	□ Nil	☐ Reassurance ☐ Information ☐ Serology ☐ Other testing
Slight to extensive exposures to intact dermis on <3 occasions	□ Negligible	☐ Reassurance ☐ Information ☐ Serology ☐ Other testing
Adequate and consistent use of appropriate hand hygiene with intact skin and only skin contact	□ Negligible	☐ Reassurance ☐ Information ☐ Serology ☐ Other testing
Adequate and consistent use of PPE without breaches	□ Negligible	☐ Reassurance ☐ Information ☐ Serology ☐ Other testing
Slight to extensive exposures to intact dermis on 3 or more occasions	□ Low	☐ Reassurance ☐ Information ☐ Serology ☐ Other testing
Slight exposures to mucous membranes or uncovered wounds on 1 occasion	Low	☐ Reassurance ☐ Information ☐ Serology ☐ Other testing
Moderate exposures to mucous membranes or uncovered wounds on 1 occasion	□ Medium	☐ Initial assessment ☐ Final assessment after discussion with IDP ☐ Reassurance ☐ Information ☐ Serology ☐ Other testing ☐ Referred to GP ☐ Restriction, donation ☐ Other
Extensive exposures to mucous membranes and/or uncovered wounds and/or needlestick injury on single or multiple occasions without adequate PPE e.g. kissing horse on muzzle, being drenched with oral or respiratory secretions, undertook respiratory tract procedures such as endoscopy or nasal lavage, performed or assisted with post mortem	□ High	☐ Initial assessment ☐ Final assessment after discussion with IDP ☐ Referred Contact to IDP ☐ Reassurance ☐ Information ☐ Serology ☐ Other testing ☐ Referred to GP ☐ Restriction, donation ☐ Other

ntact name:			Horse Name:
	First name	Surname	
7. INITIAL EX	POSURE ASSE	SSMENT (team)	
			lical officer/ physician / public health nurse/infection complete use of PPE or inappropriate use of infection
Initial Assessr		D. W.	Date: /
Updates Case Officer:		Date: /	/
		Date: /	
Case Officer:		Date: /	/