Section E: Formulating a diagnosis

Information collected during the diagnostic assessment should be reviewed, ideally in a multi-disciplinary team context, to evaluate the strength of evidence to:

- Support a diagnosis of FASD with 3 sentinel facial features or a diagnosis of FASD with <3 sentinel facial features (Refer Table 1); or
- Consider whether the individual is at risk of FASD, requiring reassessment and/or further investigation; or
- Exclude other causes or conditions; and/or
- Assess the potential influence of other exposures and events.

The yellow shaded sections on the FASD Diagnostic Assessment Form (Appendix A1) and the Summary Form (Appendix A2) summarise the clinical findings required to make a diagnosis of FASD.

Section F: Discussing the diagnosis and developing a management plan

After completing the diagnostic assessment, irrespective of the diagnosis, it is recommended that the health professional/s coordinating the diagnostic process:

- Discuss with individual/parents/caregivers the outcome of the medical assessment and any reports from other health professionals involved in the assessment.
- Discuss the diagnosis, as applicable, and develop a Management Plan, incorporating parent/caregiver and patient goals, referrals, management strategies and review dates (Appendix A3).
- Provide the individual/parents/caregivers with a written report.
- Discuss how this information may be important to share with relevant service providers and school staff. Parents/caregivers will need to provide consent for any reports to be sent directly to others; however the parent/caregiver may take their copy of the reports to the school or other organisations, to develop an appropriate plan and access services, for example through the education system or the National Disability Insurance Scheme.
- Provide contact details for follow-up communication with the clinic, if required.
- If FASD has been diagnosed, provided written information about FASD and provide contact details for NOFASD Australia National Organisation for Fetal Alcohol Spectrum Disorder (NOFASD) Australia http://www.nofasd.org/ or phone 1300 306 238.

- For information and resources for individuals/parents /caregivers after a diagnostic assessment, including formulation of the management plan and referrals to therapy and other support services: see Appendix A7.
- Consider the need for referral for individuals or family members with alcohol use disorders, as appropriate.
- For information and resources for clinicians to support patients and their families after a diagnostic assessment: see Appendix A8.

Section G: Reporting a FASD diagnosis

Please note that FASD is a notifiable birth defect in some states (South Australia, Western Australia).

Western Australian Register of Developmental Anomalies

http://www.kemh.health.wa.gov.au/services/register_developmental_anomalies/

South Australian Birth Defects Registry

http://www.wch.sa.gov.au/services/az/other/phru/birthdefect.html

☐ Female	☐ Male	□ Oth	er
/ /	Age at ass	essment:	
☐ Birth mother ☐ Foster carer ☐ Other			
☐ Department of C	hild Protection	☐ Juvenile justice	☐ Not applicable
□ No	☐ Yes		
/ /			
regiver, teacher; strengths	and needs; age-app	oropriate abilities e.g. beh	avioural regulation,
	/ / Birth mother Foster carer Other Department of C	/ / Age at ass	/ / Age at assessment: Birth mother

Obstetric history:
Developmental history:
Mental health and other behavioural problems:
Patient's medical history:
Social history: e.g. foster care, living arrangements.

MATERNAL ALCOHOL USE

Evidence of maternal alcohol use in the three months prior to and during pregnancy should be assessed, including any special occasions when a large amount of alcohol may have been consumed. The definition of a standard drink should be explained prior to administering the AUDIT-C (Q1-3). A Standard Drinks Guide can be downloaded.

http://www.health.gov.au/internet/alcohol/publishing.nsf/Content/drinksguide-cnt

	early pregnancy (if ava						
	a. Was the pregnancy planned or unplanned? \Box Planned \Box Unplanned \Box Unknown						
_	<u> </u>						
	, ,						
d. Did the bir	· · · · · · · · · · · · · · · · · · ·	drinking behaviour	on confirmation of pre	gnancy? \square Yes	□ No □ Unknown		
		ohol consumed? (tid	k one or more) \square None	☐ 1st ☐ 2nd	☐ 3rd ☐ Unknown		
L	orted alcohol use (if av						
1. How often d	id the birth mother ha	ive a drink containi	ng alcohol during this p	regnancy?			
Unknown	Never	Monthly	2-4 times	2-3 times	4 or more times		
	[skip Q2+Q3]	or less	a month	a week	a week		
	\square_0	\square_1	\square_2	\square_3	\square_4		
2. How many st	tandard drinks did the	birth mother have	on a typical day when s	she was drinking d	luring this pregnancy?		
Unknown	1 or 2	3 or 4	5 or 6	7 to 9	10 or more		
	\square_0	\square_1	\square_2	\square_3	\square_4		
					_		
			ard drinks on one occas		· .		
Unknown	Never	Less than	Monthly	Weekly	Daily or		
		monthly			almost daily		
	\square_0	\square_1	\square_2	\square_3	□4		
AUDIT-C score	during this pregnance	y: (Q1+Q2+Q3)=					
		Scores: 0=No ex	posure 1-4= Confirme	d exposure 5+= C	Confirmed high-risk exposure		
Other evidence	e of exposure						
Is there eviden	ce that the birth moth	er has ever had a p	roblem associated with	alcohol misuse o	r dependency?		
□ No □ Yes	(identify below, including	source of information)					
☐ Alcohol depe	endency (specify)						
☐ Alcohol-rela	ted illness or hospitali	sation (specify)					
☐ Alcohol-rela	ted injury (specify)						
☐ Alcohol-rela	ted offence (specify)						
☐ Other (specify	')						
Information from records: e.g. medical records, court reports, child protection records.							
l <u> </u>	Is there evidence that the birth mother's partner has ever had a problem associated with alcohol misuse or dependency? No Yes (identify below, including source of information)						
Alcohol exposu	ire summary						
Source of repor	rted information on a	cohol use:	rth mother	r (specify)			
In your judgem	ent what is the reliab	lity of the informat	ion on alcohol exposure	e: 🗆 Unknown	☐ Low ☐ High		
In your judgem	ent was there high-ris	k consumption of a	lcohol during pregnanc	y? 🗆 Unknown	☐ Yes ☐ No		
Prenatal alcoho	ol exposure: 🗆 Unkno	own exposure 🗆 N	o exposure Confirm	ned exposure 🗆 (Confirmed-high risk exposure		

OTHER EXPOSURES

Postnatal risk summary:

 \square No known risk

Assess evidence of adverse prenatal and pos	stnatal exposures and events	that need to be consider	ea.
Prenatal			
Other prenatal exposures identified: (if yes, sp	pecify and indicate source of informa	ation)	
☐ Nicotine (e.g. cigarettes, inhalers, e-cigs and chew	ved tobacco) (specify)		
☐ Marijuana (specify)			
☐ Heroin (specify)			
☐ Cocaine (specify)			
☐ Amphetamines (specify)			
☐ Other non-prescription drugs (specify)			
☐ Anti-convulsants (specify)			
☐ Other prescription drugs (specify)			
☐ Don't know			
□ None			
Specify other prenatal risk factors and asses including ionizing radiation, paternal or maternal intelle			exposure to known teratogens,
Other prenatal risk summary:			
. □ No known risk	☐ Unknown risk	☐ Some risk	☐ High risk
Postnatal			
Specify other physical or medical risk factors or neglect, serious head injury, meningitis or other specify other psychosocial risk factors and a	er medical conditions that lead to	o brain damage, child substa	ance abuse)

 \square Unknown risk

 \square High risk

 \square Some risk

GROWTH

Assess birth parameters and postnatal growth, and determine if any deficit exists that is unexplained by genetic potential, environmental influences (e.g. nutritional deficiency) or other known conditions (e.g. chronic illness).

Birth	Gestational age		Birth length		Birth weight	
Date	weeks		cm	percentile	grams	percentile
	–		_			1
Growth reference	chart used: CDC		□ WHO	☐ Other (specify)		
Postnatal			He	eight	W	eight /
Г	1			T		
Date	Age		cm	percentile	kg	percentile
		•			•	•
Growth reference	chart used: CDC		□ WHO	☐ Other (specify)		
Parental height (if a	available)					
Mother's height (cm) Father's heigh	t (cm)	Sex-specific	target height (cm)	Sex-specific targe	t height (percentile)
drugs, nicotine)	t may explain growth		eror (e.g. macm		negreet, generie contain	on, prematant, oure
Growth summary						
Was an unexplaine	d deficit in height or v	veight <	3 rd percentile	identified at any time	? □ Yes □ No	
If Yes □ height o	r weight ≤10 th and >3 ^r	^d percent	ile 🗆 height	or weight ≤3 rd percent	ile	

SENTINEL FACIAL FEATURES

Assess for the 3 sentinel facial features of Fetal Alcohol Spectrum Disorder: short palpebral fissure length (2 SD or more below the mean), smooth philtrum (rank 4 or 5 on the Lip-Philtrum guide), and thin upper lip (rank 4 or 5 on the Lip-Philtrum guide).

	Right		PFL Left PFL		Mean PFL				
-	Palpebral Fissure Length (PFL)								1
Date	Age	Assessment i	nethod	mm	Z score (SD)	mm	Z score	mm	Z score*
		☐ direct measu	re \square photo analy	/sis					
		☐ direct measu	re 🗌 photo analy	/sis					
PFL referen	ce chart use	d: 🗆 Stro	omland \Box C	larren 🗆 (Other				
Philtrum									
Date	Age	Assessment r	nethod			UW Lip-Ph	iltrum Guid	e 5-point r	ank
		☐ direct measu	re	/sis					
		☐ direct measu	re 🔲 photo analy	/sis					
		☐ direct measu	re \Box photo analy	/sis					
Upper lip					-				
Date	Age	Assessment r	nethod			UW Lip-Ph	iltrum Guid	e 5-point r	ank
		☐ direct measu	re 🔲 photo analy	/sis					
		☐ direct measu	re	/sis					
		☐ direct measu	re 🔲 photo analy	/sis					
Lip-Philtrur	n Guide [†] use	ed: 🗆 Guid	e 1. Caucasian	☐ Guide	2. African	American			
Sentinel F	acial Featu	res Summar	y						
			PFL 2 SD or more b	elow the mear	, philtrum	rank 4 or 5	, upper lip r	ank 4 or 5)	:
		□ 0							
OTHER PHY	SICAL FINDI	NGS							
Dysmorphi	c facial featu	ures (please spe	cify)						
Othou binth	defects us	aiau au mainau	/-l						
Other birth	i defects - m	ajor or minor	(please specify)						
Other med	ical conditio	ns:							
Hearing im	pairment:	□ No	☐ Not tested	☐ Yes (specify)				
Vision impa	irment:	\square No	\square Not tested	☐ Yes (specify)				
Known syndrome or genetic disorder (please specify):									
Other (plea	se specify):								
Investigation	ons:								
_	al microarray:	. □ No	☐ Result pending	☐ Yes (specify	result)				
Fragile X tes	•		☐ Result pending	☐ Yes (specific					
Other invest	igations as inc	dicated: Full blo	ood count, ferritin, m	etabolic screen,	creatinine k	inase, lead, a	and thyroid f	unction	

^{*}University of Washington Palpebral Fissure Length Z-score calculator: http://depts.washington.edu/fasdpn/htmls/diagnostic-tools.htm#pfl

[†]University of Washington Lip-Philtrum Guides: http://depts.washington.edu/fasdpn/htmls/lip-philtrum-guides.htm

NEURODEVELOPMENTAL DOMAINS

1 BRAIN STRUCTURE / NEUROLOGY DOMAIN

BRAIN STRUCTURE

Occipitofrontal Circumference (OFC)

Date	Age	OFC (cm)	Percentile*	Reference used
Birth:				
*correct for gestational	age when < 2 years old	-		
If OFC < 3 rd percen	tile, is it explained b	by other aetiologies e.	g. infection, metabolic	or other disease?
No ☐ Yes (spe	•			
Imaging				
CNS imaging perfo	rmed: 🗆 No	☐ Yes (specify image	e modality and date)	
Specify any structu	ral abnormalities:			
16		. ,		
if yes, are they exp	lained by other aet	iologies e.g. injury, inf	ection, or metabolic o	r other disease? No Yes (specify)
NEUROLOGY				
	seizure disorders o	r other abnormal har	d neurological signs.	
Seizure disorder				
Seizure disorder pr	resent: \square No	☐ Yes (specify)		
		(-1)		
If yes, are they exp	lained by other aet	iologies e.g. injury, inf	ection, or metabolic o	r other disease? No Yes (specify)
Other neurologica	I diagnoses e.g. cer	ebral palsy, visual imp	airment, sensorineura	l hearing loss
Other abnormal ne	eurological diagnose	es present: No	☐ Yes (specify)	
If yes, are they exp	lained by other aet	iologies e.g. injury, inf	ection, or metabolic o	r other disease?□ No □ Yes (specify)
	·		·	
Brain Structure/ N	eurology domain s	ummary		
Evidence of brain s				that are unexplained by other causes?
	□ No	☐ Yes		lot assessed

FUNCTIONAL NEURODEVELOPMENTAL DOMAIN SUMMARIES

Assess evidence of significant CNS dysfunction due to underlying brain damage. Required evidence includes severe neurodevelopmental impairment (2 SD or more below the mean or < the 3rd percentile) in domains of brain function based on standardised psychometric assessment by a qualified professional.

2.	ΝЛ	a	т	റ	D	c	vi		ıc
۷.	IVI	v	ı	u	n	3	N	ы	LJ

2. MOTOR SKILLS					
Test/subtest name		Age/ Date	Score	%ile/SD	Interpretation
Other information:					
Motor Skills impairment:	☐ None	☐ Some		Severe	☐ Not assessed
3. COGNITION		10.10		0/:1 /65	
Test/subtest name		Age/ Date	Score	%ile/SD	Interpretation
Other information:					
Other information.					
6				<u> </u>	
Cognition impairment:	□ None	☐ Some		Severe	☐ Not assessed
4. LANGUAGE					
(Expressive and Receptive)					
Test/subtest name		Age/Date	Score	%ile/SD	Interpretation
Other information:					
Language impairment	☐ None	☐ Some		Severe	☐ Not assessed

5. ACADEMIC ACHIEVEMENT

5. ACADEIVIIC ACIIIEVEIVIENT				T	
Test/subtest name		Age/ Date	Score	%ile/SD	Interpretation
Other information:					
Academic achievement impairment	☐ None	☐ Som	ne	☐ Severe	□ Not assessed
6. MEMORY					
Test/subtest name		Age /Date	Score	%ile/SD	Interpretation
Other information:					
Memory impairment	☐ None	☐ Som	е	☐ Severe	☐ Not assessed
7. ATTENTION					
Test/subtest name		Age/ Date	Score	%ile/SD	Interpretation
Other information:			•	·	
Attention impairment	□ None	☐ Som	е	☐ Severe	☐ Not assessed

8. EXECUTIVE FUNCTION, INCLUDING IMPULSE CONTROL AND HYPERACTIVITY

Test/subtest name		Age/ Date	Score	%ile/SD	Interpretation
Other information:	·				
Executive function, including impulse of				1.0	
	☐ None	☐ Some	! <u>L</u>] Severe	☐ Not assessed
9. AFFECT REGULATION		<u> </u>			
Test/subtest name		Age/ Date	Score	%ile/SD	Interpretation
Other information:					
Affect regulation impairment:	☐ None	☐ Som	e	☐ Severe	☐ Not assessed
10. ADAPTIVE BEHAVIOUR, SOCIAL SK	ILLS, OR SOCI	AL COMMUNI	CATION		
Test/subtest name		Age/ Date	Score	%ile/SD	Interpretation
Other information:					
Adaptive behaviour, social skills, or social	cial communic	ation impairm Some] Severe	☐ Not assessed
		JUITE		Jevele	□ INOT @22525CR
NEURODEVELOPMENTAL DOMAINS S	UMMARY				
Number of neurodevelopmental dom	ains with evid	ence of severe	impairme	nt:	
□ No				re (specify)	_

DIAGNOSIS:

For derivation of the Australian FASD diagnostic categories, please refer to the Australian FASD Diagnostic Criteria and FASD Diagnostic Pathway Algorithm below (also see Table 1 and Figure 1 in the Guide). Record the diagnosis below. *Indicate as applicable:*

	FASD with 3 sentinel facial features
	FASD with < 3 sentinel facial features
	At risk of FASD
	Incomplete assessment e.g. further investigation/information needed
	Other diagnoses (with or without FASD)
	Other diagnoses (with or without (ASD)
Clin	ical notes:
J	

PATIENT DETAILS

	NAME						
	Sex	□ Fe	male		☐ Male	☐ Other	
Date of birth (DD/MM/YYYY)		/	/	Age	at assessment:		
Racial/ethnic background							
Hospital number (if applicable)							
ALCOHOL EVROCURE CHIMANARY							
ALCOHOL EXPOSURE SUMMARY Source of reported information on alcohol use: Birth mother Other (specify)							
In your judgement what is the reliability of the information on alcohol exposure: \Box Unknown \Box Low \Box High							
In your judgement was there high-risk	tion of a	alcoho	ol during pregi	nancy? 🗆 Unknow	n □ Yes □ No		
Prenatal alcohol exposure: ☐ Unknown exposure ☐ No exposure ☐ Confirmed exposure ☐ Confirmed-high risk exposure							
SENTINEL FACIAL FEATURES SUMMARY							
Number of Sentinel Facial Features (PFL 2 SD or more below the mean, philtrum rank 4 or 5, upper lip rank 4 or 5):							
□ 0	□ 1	□ 2		□ 3			
NEURODEVELOPMENTAL DOMAINS SUN	ИMARY						
Neurodevelopmental Domain					Impairment		
1 Brain structure/Neurology	□ No			☐ Yes	☐ Not asse	essed	
2 Motor Skills	□ No	ne		☐ Some	☐ Severe	☐ Not assessed	
3 Cognition	□ No	ne		☐ Some	☐ Severe	☐ Not assessed	
4 Language	□ No	ne		☐ Some	☐ Severe	☐ Not assessed	
5 Academic achievement	□ No	ne		☐ Some	☐ Severe	☐ Not assessed	
6 Memory impairment	□ No	ne		☐ Some	☐ Severe	☐ Not assessed	
7 Attention	□ No	ne		☐ Some	☐ Severe	☐ Not assessed	
8 Executive function, including impulse control and hyperactivity	□ No	ne		☐ Some	☐ Severe	☐ Not assessed	
9 Affect regulation	□ No	ne		☐ Some	☐ Severe	☐ Not assessed	
10 Adaptive behavior, Social Skills, or Social Communication	□ No	ne		□ Some	☐ Severe	☐ Not assessed	
Number of neurodevelopmental domains with evidence of severe impairment □ None □ 1 □ 2 □ 3 or more (specify)							
Other Prenatal or Post-natal risk/exposure							
	lo knowr	ı risk	□ u	Inknown risk	☐ Some risk	☐ High risk	
Postnatal risk summary:	☐ No know			nknown risk		☐ High risk	
Growth summary							
Was an unexplained deficit in height or	weight ·	< 3 rd per	centil	e identified at	any time?	s □ No	

DIAGNOSIS:

For derivation of the Australian FASD diagnostic categories, please refe	er to the Australian FASD Criteria and the FASD Diagnostic
Pathway Algorithm below (also see Table 1 and Figure 1 in the Guide).	Record the diagnosis below.

Indicate as applicable:
 □ FASD with 3 sentinel facial features □ FASD with < 3 sentinel facial features □ At risk of FASD □ Incomplete assessment e.g. further investigation/information needed □ Other diagnoses (with or without FASD)
Clinical notes: