Supplementary File 3 - GALLOP - Round three.





GALLOP

Thank you for participating in this research.

This project aims to develop a **gait and lower limb assessment tool** that can be used to gain consistency in the type of questioning and assessment that is used with children during an initial assessment (or screen). Many comments have been made about some tests being used based on responses. The primary aim of the GALLOP is to guide the generalist through the minimal or required assessment of a paediatric gait and lower limb concern. We recognise other tests may be included if a negative result is obtained. As the expert panel, your opinion is important on if these additional tests should be included on this assessment.

To do this we are gathering your expertise and agreement during 3-4 rounds of questions therefore we are almost there!

To assist you in your responses thus far, we have also emailed you your responses from round 2.

Your responses are confidential and will only be known by the research team.

The survey should take under 10 minutes to complete. You will have the chance at the end to make any comments if you wish.

If you have any questions please contact Simone Cranage (scranage@phcn.vic,gov.au) Cylie Williams (cyliewilliams@phcn.vic.gov.au) or Helen Banwell (HelenBanwell@unisa.edu.au)

For the following questions, we have provided the statement where 70% of consensus (**Round 1**) and agreement (**Round 2**) was achieved. During round 2, there were themes where less than 50% of participants agreed and these have been deleted and not displayed within this round (**Round 3**).

Where a theme had 51-69% of agreement, we ask you to again read the statements that have been produced through the first two rounds and then respond with your agreement of whether the theme of guestion or measure should be included.

Q1. What is your participant number?	
 Pre and post natal history Based on the responses, consensus and agreement was achieved on the following themes (70% people identified these themes). Therefore the pre and post natal history questions that the parent/caregiver should be asked is: Were there any complications during pregnancy? (Prompts: Health of the mother, use of medications) 	6 of
medications) Yes No List: 2. What was the term of the pregnancy?wks? 3. How was the baby delivered Vaginal Caesarean 4. Any any post-natal complications during or post delivery (Prompts: Resuscitations, NICU, Special Care Nursery, congential abnormalities, medications, general health) Yes No	_
List:	irst
Yes (Birth Within 14 days) No 10. Is there a family history of foot or leg problems Yes No	

The following theme achieved agreement of 51-69% of participants. Please rate on the following scale your opinion of whether this theme should be included considering the current themes that consensus and agreement have been achieved on:

Labour	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
	0	0	0	0	0
2. Developmental miles	tones/history				
Based on the responses people identified these the Therefore the proposed ashould be asked are:	nemes).				·
Age of Sittingmo	nths				
Age of Crawling Age of Walking	months F	months	Type of crawl		
Age of walking	months F o	kunning		years	
following scale your op current themes that co	nsensus and agr	eement have	been achieved	l on:	
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Age of pull to stand	0	0	0	0	0
Age of beginning to cruise	0	0	0	0	0
Age of beginning to hop	0	0	0	0	0
Age of walking up/down stairs	0	0	0	0	0
Age of beginning to kick a ball	0	0	0	0	0
3. Other history questions					

3. Is there pain associated with the complaint (Prompt: Faces Pain Scale) List: 4. What is the typical footwear worn by the child 5. What is the child's recreational/sport activities or social activities 6. Has there be any observed sensory concerns (Prompt: surfaces/textures) 7. What is the parental goals of assessment and/or treatment 8. What is the child's primary sitting position at play_____ 9. What is the child's primary sleeping position The following theme achieved agreement of 51-69% of participants. Please rate on the following scale your opinion of whether this theme should be included considering the current themes that consensus and agreement has been achieved on: Strongly Disagree Disagree Neutral Agree Strongly Agree Height/weight 4. Hip Assessment Based on the responses, consensus was achieved on the following themes (70% of people identified the following assessments used when assessing hip range of movement and the preferred measurement method). Therefore the following hip assessments to be incorporated into the GALLOP assessment are: Internal/external rotation (knee flexed and/or extended)

Left
Right Thomas test (modified thomas test) Left Right Hip abduction Left Right Hip adduction Left _____ Right _____ Preferred measurement methods: Goniometer The following theme achieved agreement of 51-69% of participants. Please rate on the following scale your opinion of whether this theme should be included considering the current themes that consensus has been achieved on:

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	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Quad ROM/tightness	0	0	\circ	\circ	0
5. Hamstring Assessme	ent				
Based on the responses, dentified the following as measurement method). T ncorporated into the GAL	sessments used wherefore the follow	vhen assessin ving hip asses	g hip range of n	novement and	d the preferred
Popliteal angle: Left Method: Angle finder	RigI	nt			
No further responses are	required				
6. Leg Length Assessm	ent				
				1.700/	
No consensus was achievigreed) in Round 2 on the		•	nent was achie	ved (70% of p	participants
. Observation (frontal pla	ane nelvic/shoulde	er tilt scolinsis	check knee cr	eases head t	ilt foot posture
gait)		, tirt, 000110010	oricon, miles or	54000, 11044 t	int, root pooturo,
Γhe following themes a	chieved agreeme	nt of 51-69%	of participants	s. Please rate	e on the
ollowing scale your op	inion of whether	these themes	should be inc	luded consi	
following scale your op	inion of whether	these themes	should be inc	luded consi	
following scale your op	inion of whether asensus and agre	these themes eement have l	should be inc	eluded consi on:	dering the
following scale your op current themes that con	inion of whether	these themes	should be incoeen achieved	luded consi	dering the
following scale your opcurrent themes that con	inion of whether asensus and agre	these themes eement have l	should be incoeen achieved	eluded consi on:	dering the
The following themes acfollowing scale your opcurrent themes that consists of the scale with the	inion of whether asensus and agre	these themes eement have l	should be incoeen achieved	eluded consi on:	
collowing scale your opcurrent themes that con	inion of whether asensus and agre	these themes eement have l	should be incoeen achieved	eluded consi on:	dering the

Based on the previous responses, no consensus was achieved in Round 1, however agreement was achieved (70% of participants agreed) in Round two on the following methods of measurement.

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1. Tape measure 2. Palpation 3. Eyeball No further responses are required 8. Rotational Profile Based on the responses, consensus and agreement was achieved on the following themes (70% of people identified the following methods and tools when assessing rotational profile of the upper and lower leg). Therefore the following assessments to be incorporated into the GALLOP are: 1. Internal Hip ROM (hip flexed/extended, knee flexed/extended) Left 2. External Hip ROM (hip flexed/extended, knee flexed/extended) Left Right 3. Thigh foot angle (tibial torsion) Left Right 4. Other (lumbar spine curve, shoulder symmetry, ASIS, knee position, metatarsus adductus) The following themes achieved agreement of 51-69% of participants. Please rate on the following scale your opinion of whether these themes should be included considering the current themes that consensus and agreement have been achieved on: Strongly Disagree Disagree Neutral Agree Strongly Agree Rvder's Test Genicular rotation Trans-malleolar angle/malleolar position 9. Rotational profile method of measurement. Based on the responses, no consensus was achieved in Round 1, however agreement was achieved (70% of participants agreed) in Round 2 on the following method of measurement. 1. Goniometer

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The following method of measurement achieved agreement of 51-69% of participants. Please rate on the following scale your opinion of whether this method should be included considering the current method that agreement has been achieved on:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Eyeball	0	0	0	0	0
10. Ankle range of move	ement				
Based on the responses, people identified the follow Therefore the following as	wing assessments	s used when a	assessing ankle	range of mov	
Non weight-bearing a	ınkle dorsiflexion	(knee extende	ed): Left	Riaht	
 Non weight-bearing a Non weight-bearing a Weight-bearing lunger 	nkle dorsiflexion	(knee flexed):	Left	Right	
Able to squat	Yes No	0	N/A	Kigiit	
5. Able to walk on toes6. Able to heel walk	Yes N	o	N/A N/A		
No further responses are	required				
Tre farmer respendes and					
11. Ankle range of move	ement method of	measureme	nt		
Based on the responses, achieved (70% of particip					nt was
,	anto agreed) in re	odna two on t	are renewing me	diod.	
1. Goniometer					
The following methods of on the following scale you method that agreement h	ur opinion of whet	her these sho			
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Digital inclinomter	0	0	0	0	0
Eyeball measurement	0	\circ	\circ	\circ	0

12. Presence of genu varum/genu valgum

Based on the responses, people identified the followalgum. Therefore the followalgum.	wing assessments	s used measu	ring the presen	ce of genu va	rum/genu
 Intercondylar distance Intermalleolar distance 	e (WB) e (WB)	_cm _cm			
Method of measurement 1. Use of a tape measure.	/ruler				
The following theme acl following scale your opicurrent themes that con	inion of whether	these theme	s should be in	cluded consi	
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Intercondylar distance (non- WB)	0	0	0	0	0
Intermalleolar distance (non- WB)	0	0	\circ	\circ	0
13. Foot Posture Based on the responses, people identified the follow following assessments to	wing assessments	s used when a	assessing foot p		
1. FPI-6 Left	Right				
Hubscher maneuver (Left Positive/Negative	,	Negative			
Subtalar joint axis Left Medial/Typical/La	teral Right Med	ial/Typical/La	eral		
Subtalar joint ROM Left Restricted/Typica	l/Hypermobile l	Right Restrict	ed/Typical/Hype	rmobile	
5. Forefoot to rearfoot rel	ationship				
6. Midtarsal joint non wei Left Restricted/Typica		Right Restrict	ed/Typical/Hype	rmobile	
5. 1st MPJ Non weightbeau Left Restricted/Typical	•	Right Restricte	ed/Typical/Hype	rmobile	

6.. Ability to stand on tip toes Left Yes/No/NA Right Yes/No/NA

7. Does the rearfoot resu Left Yes/No/N/A F					
Method of measurement	: Eveball				
The following themes a following scale your op current themes that cor	inion of whether	these theme	s should be in	cluded cons	
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Resting Calcaneal Stance Position	0	0	0	0	0
Supination resistance	0	0	0	\circ	0
people identified the follow balance). Therefore the follow Observations of achiever	wing assessment ollowing assessment:	s used when r	neasuring gross	s motor ability	/ and/or
people identified the followal balance). Therefore the followal balance. Therefore the followal balance. Observations of achieve 1. Running Yes/No/N/A2. Jumping Yes/No/N/A3. Skipping Yes/No/N/A	wing assessment ollowing assessment: A Observation: A Observation: A Observation: A Observation:	s used when r nents to be inc	measuring gross corporated into t	s motor ability he GALLOP	/ and/or
people identified the followal balance). Therefore the followal balance. Therefore the followal balance. Therefore the followal balance. Observations of achieve achieve. Running Yes/No/N/A Jumping Yes/No/N/A Skipping Yes/No/N/A	wing assessment ollowing assessment: A Observation: A Observation: A Observation: A Observation:	s used when r nents to be inc	measuring gross corporated into t	s motor ability he GALLOP	/ and/or
people identified the followed balance). Therefore the followed balance). Therefore the followed balance). Therefore the followed balance). Therefore the followed balance is a constant of achieved. 1. Running Yes/No/N/A 2. Jumping Yes/No/N/A 3. Skipping Yes/No/N/A 4. Hopping Yes/No/N/A 5. Single leg stance (eyed). Single leg stance (eyed). Ability to go up/down	wing assessment ollowing assessment ollowing assessment: A Observation:A Observation: _	s used when repetts to be incomented by the second of the	neasuring gross corporated into t Right Right	s motor ability the GALLOP	/ and/or are:
people identified the followed balance). Therefore the followed balance). Therefore the followed balance. Therefore the followed balance. Therefore the followed balance. Therefore the followed balance. 1. Running Yes/No/N/A 2. Jumping Yes/No/N/A 3. Skipping Yes/No/N/A 4. Hopping Yes/No/N/A 5. Single leg stance (eyellowed balance). Single leg stance (eyellowed balance). Ability to go up/down and the functional task to the observations (for the followed balance).	wing assessment ollowing assessment ollowing assessment: A Observation:A Observation:A Observation:A Observation:A Observation: es open, timed) Les closed, timed) a stairs Yes/No/N/s (throwing, catch	eft Left YA Observationing, kicking a	neasuring gross corporated into t Right Right ball, animal wa	s motor ability the GALLOP Iks, sport spe	and/or are:
 Jumping Yes/No/N/A Skipping Yes/No/N/A 	wing assessment ollowing assessment ollowing assessment: A Observation:A Observation: _	eft Left /A Observationing, kicking a aturity of patternat, BOT-2, Be	neasuring gross corporated into the corporated	s motor ability the GALLOP Iks, sport spe of movemente, AIMS, Pea	cific activities) ts, symmetry,
people identified the followed balance). Therefore the followed balance of achieved balance of stance of achieved balance of stance of achieved balance of	wing assessment ollowing assessment collowing assessment: A Observation:A Observation:	eft	neasuring gross corporated into the corporation in the corporation is corporated in the corporated into th	s motor ability the GALLOP lks, sport sperior of movemente, AIMS, Pease rate cluded cons	ecific activities) ts, symmetry, body, ASQ etc.
people identified the following scale your op balance). Therefore the follow balance). Therefore the following scale your op the following scale your op for the following scale your op the following scale your op for the following scale your op the follo	wing assessment ollowing assessment collowing assessment: A Observation:A Observation:	eft	neasuring gross corporated into the corporated	s motor ability the GALLOP Iks, sport spe of movemen e, AIMS, Pea s. Please rat cluded cons d on:	ecific activities) ts, symmetry, body, ASQ etc.
people identified the following scale your op balance). Therefore the follow balance). Therefore the following scale your op the following scale your op for the following scale your op following sca	wing assessment ollowing assessment ollowing assessment: A Observation:A Observation: _	eft	neasuring gross corporated into the corporated	s motor ability the GALLOP lks, sport spe of movemente, AIMS, Peace, Second considering and the consideri	ecific activities) ts, symmetry, body, ASQ etc.

15. Reflexes

Based on the responses, consensus was achieved on the following themes (70% of people identified the following reflexes tested in the lower limb. Therefore the reflex tests to be incorporated into the GALLOP are:

- 1. Patella (knee jerk, quadriceps) reflex
- 2. Achilles (ankle jerk, gastrocnemius) reflex
- 3. Plantar reflex (up or down going)

No further responses are required

- 16. Based on the responses, consensus was achieved (70% of people identified the following preferred grading method of responses) on the following scale:
- 0: Absent reflex
- 1+: trace, or seen only with reinforcement
- 2+: normal
- 3+: brisk
- 4+: nonsustained clonus (i.e., repetitive vibratory movements)
- 5+ sustained clonus

No further responses are required.

17. Neurological other

Based on the responses, no consensus was achieved in Round 1, however agreement was achieved (70% of participants agreed) in round Two on the following themes. Therefore the follow assessments to be included are:

1. Muscle tone (pass	sive, active, s	spasticity,	rigiaity)
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- 2. Presence of a catch (R1/R2) Site:
- 3. Presence of a clonus Site:
- 4. Gower's sign Yes/No
- 5. Dorsiflexion strength (Grading 0-5) Left Right
- 6. Plantarflexion strength (Grading 0-5) Left Right
- 7. Inversion strength (Grading 0-5) Left Right
- 8. Eversion strength (Grading 0-5) Left Right

The following theme achieved agreement of 51-69% of participants. Please rate on the following scale your opinion of whether this theme should be included considering the current themes that agreementhas been achieved on:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Sensory assessment (perception, discrimination, sensation, proprioception, monofilament)	0	0	0	0	0
18. Assessment other					
Based on the responses, achieved (70% of particip					nt was
Beighton score Other observations (sy	ndactlyl, skin fold	ls, feet, legs,	thighs, tufts)	····	
The following assessm following scale your op					e rate on the
	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree

19. Gait assessment

Toe walking tool

Based on the responses, consensus and agreement was achieved on the following themes (70% of people identified the following assessments when describing the aspects of the lower limb visualised during gait assessment). Therefore the following gait observations be incorporated into the GALLOP are:

- 1. Shoulder symmetry (transverse, frontal plane rotation)
- 2. Arm swing (symmetry, guard position, flapping/flailing)
- 3. Hip (rotation, frontal plane motion, flexion, hip drop/rise)
- 4. Knee position (patella, flexion/extension/hyperextension, internal, frontal, external, genu varum/valgum)
- 5. Heel contact (initial contact, motion, timing, heel lift, rearfoot position)
- 6. Mid-stance (mid-foot position)
- 7. Toe off (Forefoot position, propulsion, symmetry, duration)
- 8. Other gait observations (Trendelenberg, limp, limb circumduction, abductory twist etc)

- 9. Head and neck position
- 10. Trunk/torso position and/or alignment
- 11. Angle of gait (foot progression angle)
- 12. Base of gait

Preferred method of measure: Eyeball/Visual

The following theme achieved agreement of 51-69% of participants. Please rate on the following scale your opinion of whether this theme should be included considering the current themes that agreement has been achieved on:

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Length of stride	0	0	0	0	0
Any comments about any	of the above?				
L					

Thank you for taking the time to complete this survey. The final round will be emailed to you as soon as possible. Within the final round where there has greater than 70% agreement or less than 50% agreement, a final copy of the statements will be emailed only and the rounds ceased. Only if there is outstanding themes of 51-69% will these be circulated for one final round.

By clicking out of this survey you will not be able to re-enter and your answers will be saved.

If you would like to modify your responses, please use the back button or close and re-enter at a later date. Please remember you only have 2 weeks from this time to complete the survey. Your responses though will not be recorded until you click the button at the end of this question.