

Rourke Baby Record: Evidence-Based Infant/Child Health Maintenance







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©2020 Drs. L Rourke, D Leduc and J Rourke. Revised Jan. 22, 2020 NAME:			P. d. D. (4/2/2)	/ /20	M \square = \square	Pregnancy/Birth remarks/Apgar:		Risk factors/Family history:	
Gestational Age:		Birth Length:		// 20 Birth Weight:					
=		cm Discharge Weight			U				
WITHIN 1 WEEK			2 WEEKS (OPTION	IAL)		1 MONTH			
		20	DATE OF VISIT	/20_		DATE OF VISIT	/	/20	
		rrect age until 24–36 moi				_			
Length	Weight	Head Circ.	Length	Weight	Head Circ.	Length	Weight	Head Circ.	
DADENT / CARE	IVED CONCEDNO	(avg 35 cm)		(regains BW 1-3 weeks)					
PARENT / CAREC	IVER CONCERNS								
NUTRITION ¹ For	each O item discuss	sed, indicate "✓" for no c	concerns, or "X" if conc	terns					
Breastfeeding (e Vitamin D 4 Formula feeding, [150 mL(5 oz)/k Stool pattern and	00 IU/day¹ preparation ¹ g/day ¹]		Breastfeeding (exclusive) ¹ Vitamin D 400 IU/day ¹ Formula feeding/preparation ¹ [150 mL(5 oz) /kg/day ¹] Stool pattern and urine output			Breastfeeding (exclusive) ¹ Vitamin D 400 IU/day ¹ Formula feeding/preparation ¹ [450–750 mL(15–25 oz) /day ¹] Stool pattern and urine output			
EDUCATION ANI	ADVICE Repeat d	liscussion of items is base	ed on perceived risk or	need					
Injury Prevention ¹ Motorized vehicle safety/Car seat ¹ Safe sleep (position, room sharing, avoid bed sharing, crib safety) ¹ Firearm safety ¹ Pacifier use ¹ Hot water <49°C/Bath safety ¹ Falls (stairs, change table) ¹ Carbon monoxide/Smoke detectors ¹ Choking/Safe toys ¹			Behaviour and Family Issues ² Night waking ² Crying ² Soothability/Responsiveness Parenting/Bonding ² Family conflict/Stress Parental fatigue/Postpartum depression ² Inquire re: difficulty making ends meet or food insecurity ² High risk infants/Assess home visit need ² Siblings			Environmental Health ¹ 2nd hand smoke/E-cigs/Cannabis ¹ Sun exposure ¹ Other Issues ¹ Supervised tummy time while awake ¹ No OTC cough/cold medicine ¹ Inquiry on complementary/alternative medicine ¹ Temperature control and overdressing Fever advice/Thermometers ¹			
DEVELOPMENT ²	(Inquiry and observ	vation of milestones) estone acquisition. Absen	nce of any item suggests	s consideration for furt	ther assessment of deve	elopment. NB-Correct	for age if < 37 we	eks gestation	
Sucks well on nipple		Sucks well on nipple No parent/caregiver concerns ²			Focuses gaze Startles to loud noise Calms when comforted Sucks well on nipple No parent/caregiver concerns ²				
PHYSICAL EXAM	INATION ² An app	ropriate age-specific phys	sical examination is reco	ommended at each vis	it. Evidence-based scre	eening for specific cond	litions is highligh	ted.	
Heart/Lungs Femoral pulses Testicles/Genital	2 Ears/TMs-He Intact palate (f breastfeeding proble Abdomen/Un Hips (Barlow	nbilicus ² 7/Ortolani) ² 7 stream/Foreskin care	Fontanelles ² Eyes (red reflex) ² Neck/Torticollis ² Tongue mobility if Heart/Lungs Femoral pulses Testicles/Genitalia Spine (dimple/sin Muscle tone ²	Intact palate (in breastfeeding problems Abdomen/Umb Hips (Barlow/C Male urinary st	ring inquiry/screening ² sspection/palpation) ² slicus ²	Fontanelles ² Eyes (red reflex) Intact palate (insp. Tongue mobility Neck/Torticollis ² Heart/Lungs/Abc Hips (Barlow/Or Muscle tone ²	2 Hearing a pection/palpation) if breastfeeding p		
PROBLEMS AND	PLANS/CURRENT	T & NEW REFERRALS	E.g. medical specialis	t, dietitian, speech, au	diology, PT, OT, eyes, o	lental, social determina	ants resources		
INVESTIGATION	S / SCREENING ² A	ND IMMUNIZATION ³	B Discuss immunization	on benefits and pain r	eduction strategies ³	Record Vaccines on Gu	ide V		
Newborn screening as per province Hemoglobinopathy screen (if at risk) ² Universal newborn hearing screening (UNHS) ² If HBsAg-positive parent/sibling Hep B vaccine #1 ³						If HBsAg-positiv	ve parent/sibling	Hep B vaccine #2 ³	
SIGNATURE									
x			x			x			

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©2020 Drs. L Rourke, D Leduc and I Rourke, Revised Jan. 22, 2020 Past problems/Risk factors: Family history: Birth Day (d/m/yy): _ NAME: _/ 20____ M 🔲 F 🔲 Gestational Age: _ Birth Length: _ __ cm Birth Weight: ___

Birth Head Circumference: 2 MONTHS **4 MONTHS 6 MONTHS** DATE OF VISIT _/20_ DATE OF VISIT DATE OF VISIT $\textbf{GROWTH}^{1} \text{ use } \underline{\text{WHO growth charts}}. \text{ Correct age until 24-36 months if } < 37 \text{ weeks gestation}$ Weight Head Circ. Head Circ. Head Circ. Length Length Weight Length Weight (x2 BW) **PARENT / CAREGIVER CONCERNS NUTRITION¹** For each O item discussed, indicate "✓" for no concerns, or "X" if concerns $Breastfeeding ^1-introduction\ of\ solids ^1$ Breastfeeding (exclusive)¹ Breastfeeding (exclusive)¹ Vitamin D 400 IU/day¹ Vitamin D 400 IU/day¹ Vitamin D 400 IU/day¹ Formula feeding/preparation1 Formula feeding/preparation1 Formula feeding/preparation¹ [600-900 mL(20-30 oz) /day¹] [750-1080 mL(25-36 oz) /day¹] [750-1080 mL(25-36 oz) /day¹] Discuss future introduction of solids, with emphasis on Iron containing foods1 (iron fortified infant cereals, meat, iron containing and allergenic foods 1 tofu, legumes, poultry, fish, whole eggs) Allergenic foods (especially eggs and peanut products)¹ Fruits, vegetables, and milk products (yogurt, cheese) to follow Avoid juice and food/beverages high in sugar or salt1 Choking/Safe food¹ No honey1 No bottles in bed **EDUCATION AND ADVICE** Repeat discussion of items is based on perceived risk or need Injury Prevention¹ Behaviour and Family Issues² Environmental Health¹ Motorized vehicle safety/Car seat1 Healthy sleep habits² Night waking² 2nd hand smoke/E-cigs/Cannabis1 Crying² Safe sleep (position, room sharing, avoid bed sharing, Soothability/Responsiveness Pesticide exposure¹ crib safety) Parenting/Bonding² Family conflict/Stress Sun exposure/Sunscreens/Insect repellent1 Poisons¹; PCC#1 Parental fatigue/Postpartum depression² Other Issues¹ Firearm safety¹ Inquire re: difficulty making ends meet or food insecurity2 Supervised tummy time while awake¹ Pacifier use1 High risk infants/Assess home visit need2 Teething¹/Dental cleaning/Fluoride¹ Hot water <49°C/Bath safety1 Family healthy active living/Sedentary behaviour/Screen time² No OTC cough/cold medicine1 Encourage reading² Electric plugs/Cords Complementary/alternative medicine1 Falls (stairs, change table, unstable furniture/TV, no walkers)1 Child care2/Return to work Temperature control and overdressing Carbon monoxide/Smoke detectors1 Siblings Fever advice/Thermometers¹ Choking/Safe toys¹ $\label{eq:decomposition} \textbf{DEVELOPMENT}^2 \ \ (\text{Inquiry and observation of milestones})$ Tasks are set after the time of typical milestone acquisition. Absence of any item suggests consideration for further assessment of development. NB-Correct for age if < 37 weeks gestation Follows movement with eyes Follows a moving toy or person with eyes Turns head toward sounds Coos - throaty, gurgling sounds Makes sounds while you talk to him/her Responds to people with excitement (leg movement/panting/ Lifts head up while lying on tummy vocalizing) Vocalizes pleasure and displeasure Can be comforted & calmed by touching/rocking Rolls from back to side Holds head steady when supported at the chest or waist in a Sequences 2 or more sucks before swallowing/breathing sitting position Sits with support (e.g. pillows) Smiles responsively Holds an object briefly when placed in hand Reaches/grasps objects with both hands equally No parent/caregiver concerns2 Laughs/smiles responsively No persistent closed/fisted hands No parent/caregiver concerns2 No parent/caregiver concerns² $\textbf{PHYSICAL EXAMINATION}^2 \ \ \text{An appropriate age-specific physical examination is recommended at each visit. Evidence-based screening for specific conditions is highlighted.}$ $Fontanelles^{\color{red}2}$ Skin (jaundice2, bruising2) Anterior fontanelle² Bruising² Bruising² Anterior fontanelle² Eyes (red reflex)² Hearing inquiry/screening² Eyes (red reflex)2 Hearing inquiry/screening² Eyes (red reflex)2 Hearing inquiry/screening² Neck/Torticollis2 Neck/Torticollis2 Corneal light reflex/Cover-uncover test & inquiry² Heart/Lungs/Abdomen Heart/Lungs/Abdomen Teeth/Caries risk assessment² Hips (limited hip abd'n)2 Hips (limited hip abd'n)2 Hips (Barlow/Ortolani)2 Heart/Lungs/Abdomen Muscle tone²/No head lag Muscle tone² PROBLEMS AND PLANS/CURRENT & NEW REFERRALS⁴ E.g. medical specialist, dietitian, speech, audiology, PT, OT, eyes, dental, social determinants resources INVESTIGATIONS / SCREENING² and IMMUNIZATION³ Discuss immunization benefits and pain reduction strategies³ Record Vaccines on Guide V Anemia screening (If at risk)2 Inquire about risk factors for TB2 If HBsAg-positive parent/sibling Hep B vaccine #33

SIGNATURE







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		, , , , , , , , , , , , , , , , , , , ,				rast problems/hisk rac	tors. Farm	ly flistory.	
				// 20					
	 ence: cm		cm	Birth Weight:	g				
artii nead Circumien	ence:cn	l							
9 MONTHS (OPTIC	DNAL)		12-13 MONTHS			15 MONTHS (OPT	IONAL)		
DATE OF WISH	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(20		DATE OF WISH	,	(2.0	
	/20_			/20_		DATE OF VISIT	/	_/20	
		ct age until 24–36 mon	1						
Length	Weight	Head Circ.	Length	Weight (x3 BW)	Head Circ. (avg 47 cm)	Length	Weight	Head Circ.	
PARENT / CAREGI	VER CONCERNS								
NUTRITION ¹ For a	each O item discussed	, indicate "✓" for no co	oncerns, or "X" if cond	cerns					
Breastfeeding ¹ /Vitamin D 400 IU/day ¹ Formula feeding/preparation ¹ [720-960 mLs(24-32 oz) /day ¹] Iron containing foods ¹ , Allergenic foods ¹ , fruits, vegetables Avoid juice and food/beverages high in sugar or salt ¹ Cow's milk products (e.g. yogurt, cheese, homogenized milk) Choking/Safe foods ¹ Encourage change from bottle to cup No bottles in bed Eats a variety of textures Independent/self-feeding ¹			Homogenized mi Avoid juice and for Choking/Safe foo Promote open cup No bottles in bed Independent/self-Appetite reduced	p instead of bottle -feeding ¹ with a variety of texture	oz) /day ¹] sugar or salt ¹	Breastfeeding ^{1/} Vitamin D 400 IU/day ¹ Homogenized milk [500–750 mLs(16–24 oz) /day ¹] Avoid juice and food/beverages high in sugar or salt ¹ Choking/Safe foods ¹ Promote open cup instead of bottle No bottles in bed Independent/self-feeding ¹ Inquire re: vegetarian diets ¹			
EDUCATION AND	ADVICE Repeat discu	ssion of items is based	on perceived risk or r	need					
Injury Prevention ¹ Motorized vehicle safety/Car seat ¹ Safe sleep (9 mo: position, avoid bed sharing, crib safety) ¹ Poisons ¹ ; PCC# ¹ Firearm safety ¹ Pacifier use ¹ Bath safety ¹ /Burns ¹ Carbon monoxide/Smoke detectors ¹ Childproofing, including: Falls (stairs, change table, unstable furniture/TV, no walkers) ¹ Electric plugs/Cords Choking/Safe toys ¹		High risk infant	Healthy sl Soothabili Family cor Depression ² South and the second seco	ed ²	Environmental Health ¹ 2nd hand smoke/E-cigs/Cannabis ¹ Pesticide exposure ¹ Sun exposure/Sunscreens/Insect repellent ¹ Other Issues ¹ Teething ¹ /Dental cleaning/Fluoride/Dentist ¹ No OTC cough/cold medicine ¹ Complementary/alternative medicine ¹ Fever advice/Thermometers ¹ Footwear ¹				
DEVELOPMENT ²	(Inquiry and observati	on of milestones)	nce of any item sugges	sts consideration for fu	rther assessment of dev	relopment. NB-Correc	t for age if < 37 w	eeks gestation	
Tasks are set after the time of typical milestone acquisition. Absert Looks for an object seen hidden Cries or shouts for attention Babbles a series of different sounds (e.g. baba, duhduh) Responds differently to different people Makes sounds/gestures to get attention or help Stands with support when helped into standing position Sits without support Uses both hands equally Opposes thumb and fingers when grasps objects and finger foods Plays social games with you (e.g. nose touching, peek-a-boo) No parent/caregiver concerns ²			Responds to own n Understands simp Makes at least 1 ct Says 3 or more wo Crawls or 'bum' sh Has pincer grasp t Uses both hands s Shows distress wh	name the requests, (e.g. Where is consonant/vowel combine to the do not have to be cluffles Pulls to state to pick up and eat finger equally en separated from paren to jointly reference an o	is the ball?) ution ear) nd/walks holding on foods t/caregiver	Says 5 or more words (words do not have to be clear) Walks sideways holding onto furniture Shows fear of strange people/places Crawls up a few stairs/steps Tries to squat to pick up toys from the floor No parent/caregiver concerns ²			
PHYSICAL EXAMI	NATION ² An approp	riate age-specific physic	cal examination is rec	ommended at each visi	t. Evidence-based scree	ening for specific condi	tions is highlighte	ed.	
PHYSICAL EXAMINATION ² An appropriate age-specific physic Anterior fontanelle ² Eyes (red reflex) ² Hearing inquiry/screening ² Corneal light reflex/Cover-uncover test & inquiry ² Teeth/Caries risk assessment ² Heart/Lungs/Abdomen Muscle tone ² Hips (limited hip abd'n) ²		Anterior fontanelle ² Eyes (red reflex) ² Hearing inquiry/screening ² Corneal light reflex/Cover-uncover test & inquiry ² Tonsil size/Sleep-disordered breathing ² Teeth/Caries risk assessment ² Heart/Lungs/Abdomen Hips (limited hip abd'n) ² Muscle tone ²			Anterior fontanelle ² Eyes (red reflex) ² Hearing inquiry/screening ² Corneal light reflex/Cover-uncover test & inquiry ² Tonsil size/Sleep-disordered breathing ² Teeth/Caries risk assessment ² Heart/Lungs/Abdomen Hips (limited hip abd'n) ²				
PROBLEMS AND F	PLANS/CURRENT &	NEW REFERRALS ⁴	E.g. medical specialist	t, dietitian, speech, aud	iology, PT, OT, eyes, de	ental, social determinar	nts resources		
INVESTIGATIONS	/ SCREENING ² AND	IMMUNIZATION ³ I	Discuss immunization	n benefits and pain re	duction strategies ³ Re	cord Vaccines on Guid	e V		
If HBsAg positive	e mother check HBV a	ntibodies and HBsAg ³	(at 9 or 12 months)	Anemia scree	ning (If at risk) ²	Blood	lead if at risk ¹		
SIGNATURE									
x			x			x			
			I ————			1			
Strength of recommend	lation is based on literatu	re review using the classifi	ication: Good (bold type	e): Fair (italic type): Incone	clusive evidence/Consensu	ıs (plain type). See literatu	re review table at wy	www.rourkebabyrecord.ca	





GUIDE IV: 18 mos -5 yr(National)

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©2020 Dr	s. L Rourke, D Leduc and J Rou						Past problems/Risk fact	ors:	Family hist	ory:
NAME:										
Gestational Age:	 ence: cm	Birth Length:	cm	Birth We	ight: g					
Sirtii rieau Circumien	ericecri									
18 MONTHS			2-3 YEARS				4–5 YEARS			
DATE OF VISIT	//20_		DATE OF VISIT	/	/20		DATE OF VISIT	/	/20	
		t age until 24–36 month								
Length	Weight	Head Circ.	Height	Weight	Head Circ. if prior abN	BMI	Height	Weight		BMI
PARENT / CAREGI	VER CONCERNS				1					
NUTRITION ¹ For a	each O item discussed	, indicate "√" for no co	oncerns, or "X" if	concerns						
Breastfeeding ^{1/} Vi Homogenized milk	tamin D 400 IU/day ¹ z [500-750 mLs(16-24 o od/beverages high in sug- eeding ¹	z) /day ¹]	Breastfeeding ¹ /Vitamin D 400 IU/day ¹ Skim, 1% or 2% milk [- 500 mLs(16 oz) /day ¹] Avoid juice and food/beverages high in sugar or salt ¹ Gradual transition to lower fat diet ¹ Canada's Food Guide ¹ Inquire re: vegetarian diets ¹				Skim, 1% or 2% milk [~ 500 mLs(16 oz) /day ¹] Avoid juice and food/beverages high in sugar or salt ¹ Canada's Food Guide ¹ Inquire re: vegetarian diets ¹			
EDUCATION AND	ADVICE Repeat discu	ssion of items is based	on perceived risl	c or need						
Poisons ¹ ; PCC# ¹ Choking/Safe toys ¹ Falls (stairs, change Behaviour ² Parent/child intera- Discipline/Parenti Family ² High-risk children Parental fatigue/Str Inquire re: difficul Family healthy activ Socializing/Peer pl. Environment Health ¹ 2nd hand smoke/F	Wean fro table, unstable furniture ction Healthy ing skills programs ² 12 Encourag ress/Depression ² Ity making ends meet of we living/Sedentary behav ay opportunities 2-cigs/Cannabis ¹ p recreens/Insect repellent ¹	tyl/Burns1 m pacifier1 ty/TV)1 sleep habits2 ge reading2 r food insecurity2 viour/Screen time2	Bike helmets Poisons ¹ ; PC Behaviour ² Parent/child i High-risk ch Family confli Family ² Inquire re: d Family healt Assess child co Environment He 2nd hand sm Other ¹ Dental clean	chicle safety/Car s CC#1 interaction ildren ² ct/Stress ifficulty making e hy active living/Se are/Preschool needs: ialth ¹ iooke/E-cigs/Canna ing/Fluoride/Den	tist ¹ Complemer	Falls (: No paid skills progra ession ² curity ² reen time ² cposure ¹ htary/alternati	Healthy sleep habi Encourage reading ² Socializing opportu Sun exposure/Suns	ts ²	lines) ¹	
_		- C	No OTC cou	gh/cold medicine	10ilet learn	iing2				
Tasks are set after the Social/Emotional ² Interested in other of Child's behaviour is Comes for comfort of Communication Skills Points to several different transfresponds who Points to what hels! Looks for toy when Imitates speech sour Says 15 or more wo	children Usually e usually manageable when distressed 2 Gerent body parts eration to show you some en name is called he wants asked or pointed in directude and gestures rads (words do not have tents, (e.g. B D G H N W) on with little spilling without help	ne acquisition. Absence asy to soothe thing	2 years ² Combines 2 o Understands directions Walks backww without suppe Tries to run Puts objects in container Uses toys for p (e.g. give doll Continues to skills	r more words 1 and 2 step ard 2 steps ort nto small pretend play a drink)	for further assessmen 3 years Understands 2 and directions (e.g. "Pichat and shoes and pthe closet.") Uses sentences with words Walks up stairs usin Twists lids off jars of Shares some of the Plays make-believe with actions and we (e.g. pretending to c fix a car) Turns pages one at Listens to music or 5–10 minutes No parent/caregiven	3 step k up your out them in 5 or more ng handrail or turns knobs time games ords oook a meal, a time stories for	4 years Understands 3-pari Asks and answers li questions (e.g. "Wh doing?") Walks up/down sta alternating feet Undes huttoms an	t directions ots of at are you irs d zippers neone	5 years Counts to answ there? Speaks sentenc Throws Hops or Dresses little he Coopen request: Retells t Separat Caregiv	out loud or on fingers er "How many are clearly in adult-like es most of the time and catches a ball a 1 foot several times and undresses with lp attes with adult s most of the time the sequence of a story es easily from parent/ er ent/caregiver
PHYSICAL EXAMI	NATION ² An appropr	iate age-specific physica	l examination is 1	recommended at e	ach visit. Evidence-ba	sed screening	g for specific conditions	is highligh	ted.	
Anterior fontanelle cl Corneal light reflex/ Hearing inquiry Tonsil size/Sleep-disc	Cover-uncover test & in	Eyes (red reflex) ² nquiry ² Teeth/Caries Risk ² Heart/Lungs/Abdomen	Eyes (red refle Corneal light	if at risk (3+yrs) ² ex)/Visual acuity ² reflex/Cover-unce eep-disordered br	Hearing over test & inquiry ²	<i>aries Risk</i> ² inquiry ngs/Abdomen	Blood pressure if at Eyes (red reflex)/V Corneal light refle Tonsil size/Sleep-d	isual acuity x/Cover-ur	cover test &	Teeth/Caries Risk ² Hearing inquiry inquiry ² Heart/Lungs/Abdomen
PROBLEMS AND F	PLANS/CURRENT &	NEW REFERRALS ⁴	E.g. medical spec	cialist, dietitian, s	peech, audiology, PT,	OT, eyes, de	ntal, social determinan	ts resource	s	
INVESTIGATIONS	/ SCREENING ² AND	IMMUNIZATION ³	Discuss immu	nization benefits	and pain reduction	strategies ³ I	Record Vaccines on Gu	ide V		
Anemia screening	_	Blood lead			r reduction	1	accines on du			
SIGNATURE	(-) 500 (1000)	Бюби неми	-y							
			v							
X	1		x	1. \ ~			<u>x</u>		1 .	111
		re review using the classifi ion, Environment, Other								









GUIDE V: Immunization (National)

Rourke Baby Record:
Evidence-Based Infant/Child Health Maintenance

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For additional information, refer to the National Advisory Committee on Immunization website. Provincial guidelines vary and are available at the Public Health Agency of Canada (PHAC)

Canadian Immunization Guide as per NACI Recommendations (as of September 2019)

ME:	Birth Day (d/m/yy):	// 20	M 🗌 F 🗌
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VACCINE	NACI RECOMMENDATIONS	DATE GIVEN	INJECTION SITE	LOT NUMBER	EXPIRY DATE	INITIALS	COMMENTS
Rotavirus ³ 2 or 3 doses	dose #1 (6 weeks-14 weeks+6 days)						
# doses varies with manufacturer	dose #2						
	± dose #3 (by 8 months/0 days)						
DTaP/IPV/ ³	dose #1 (2 months)						
Hib ³	dose #2 (4 months)						
4 doses (2, 4, 6, 18 months)	dose #3 (6 months)						
	dose #4 (18 months)						
Pneu-C-13 ³	dose #1 (2 months)						
3 or 4 doses	dose #2 (4 months)						
(2, 4, ±6, 12–15 months)	±dose #3 (6 months)						
	dose #4 (12–15 months)						
Men-Conjugate ³ MCV-C: 1 dose at 12 months MCV-C or MCV-4: 1 dose at 12 years or during adolescence	MCV-C: 2 doses at 2 and 4 months only if at increased risk ± dose #1 (2 months) ± dose #2 (4 months)						
If at increased risk:	MCV-C: 1 dose at 12 months						
- MCV-C: 3 doses at 2, 4 & 12 months - MCV-4: at 2 years or older - 4CMenB: at 2 months or older	MCV-C or MCV-4: 1 dose at 12 years or during adolescence						
Hepatitis B ³ 3 doses in infancy OR	dose #1						
2–3 doses preteen/teen	dose #2						
Can be combined with Hep A vaccine	± dose #3						
MMR or MMRV ³	dose #1 (12 months)						
2 doses (12 months, 18 months OR 4 years)	dose #2 (18 months OR 4 years)						
Varicella ³ 2 doses	dose #1						
(12 months-12 years – MMRV or univalent) OR 2 doses (>13 years-univalent)	dose #2						
DTaP/IPV ³	1 dose (4–6 years)						
dTap ³	1 dose (14-16 years)						
Influenza ³ 1 dose annually							
(6–59 months and high risk > 5 years)							
First yr only for < 9 years – give 2 doses 1 month apart							
give 2 doses 1 month apart							
HPV	dose #1						
Starting at 9 years of age, as per provincial/	dose #2						
territorial guidelines	±dose #3						
Other							
	I	I	<u> </u>	<u> </u>	I.	1	









RESOURCES 1: Growth, Nutrition, Injury Prevention, Environmental Health, Other (National)

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GROWTH

- Important: Corrected age should be used at least until 24 to 36 months of age for premature infants born at <37 weeks gestation.
- Measuring growth: The growth of all term infants, both breastfed and non-breastfed, and preschoolers should be evaluated using the 2014 Canadian growth charts from the WHO Child Growth Standards (birth to 5 years) with measurement of recumbent length (birth to 2–3 years) or standing height (≥ 2 years), weight, head circumference (birth to 2 years), and calculation of BMI (2-5 years).

WHO Growth Charts Adapted for Canada with BMI tables and BMI calculator (DC) Growth Monitoring (CTFPHC) Optimal growth monitoring (CPS)

Nutrition for healthy term infants (NHTI): <u>0–6 months 6–24 months NutriSTEP*</u>

Overview NHTI 0–6 months (CPS) 2019 Nutrition Guidelines (ODPH) Dietitians of Canada

- Breastfeeding: Exclusive breastfeeding is recommended for the first six months of life for healthy term infants. Introduction of solids should be led by the infant's signs of readiness—a few weeks before to just after 6 months. Breast milk is the optimal food for infants, and breastfeeding (with complementary foods) may continue for up to two years and beyond unless contraindicated. Breastfeeding may reduce gastrointestinal and respiratory infections and helps to protect against SIDS. Maternal support (both antepartum and postpartum) increases breastfeeding and prolongs its duration. Early and frequent motherinfant contact, rooming in, and banning handouts of free infant formula increase breastfeeding rates.
 - Breastmilk storage: 2019 Nutrition Guidelines (ODPH) page 8
- Ankyloglossia and breastfeeding (CPS)
- Maternal medications when breastfeeding: Drugs and Lactation Database (TOXNET)
- Weaning: Weaning from the breast (CPS)
- Vitamin D supplementation of 400 IU/day (800 IU/day in high-risk infants) is recommended for infants/children for as long as they are breastfed. Breastfeeding mothers should consume a standard multivitamin/mineral supplement that contains vitamin D (400 IU/day). Vitamin D supplementation (CPS)
- Infant formula: Formulas generally contain iron: 0.4mg-1.3mg/100ml. Discourage the use of homemade infant formulas.
- Formula composition and use <u>Alberta Health Services Compendium</u> and <u>Summary Sheet</u>
 Infant Formula: What you need to know (Best Start) Preparation Video and Tip sheets (Best Start)
 Milk consumption range is consensus only & is provided as an approximate guide.
- · Soy-based formula is not recommended for use in cow milk protein allergy or in preterm infants, and may interfere with absorption of T4 replacement therapy in infants with congenital hypothyroidism. Soy-based formulas (AAP)
- Avoid all sweetened fruit drinks, sports drinks, energy drinks, and soft drinks; restrict fruit juice consumption to a maximum of 1/2 cup (125 mL) per day. Limit the consumption of prepared food and beverage products that are high in sugar content.
- Limit/avoid consuming highly processed foods that are high in dietary sodium. Dietary sodium (CPS)
- Colic: Dietary interventions for colic (CPS)
- Introduction to solids: A few weeks before to just after 6 months, guided by infant's readiness (CPS Caring for Kids), start iron containing foods to avoid iron deficiency. A variety of soft texture foods, ranging from purees to finger foods, can be introduced.
- Allergenic foods: For all infants, including those at high risk for allergies, allergenic foods (especially
 eggs and peanut products) can be introduced with other solids around 6 months, but not before 4 months, as guided by the infant's signs of readiness. Once allergenic solids are introduced, they should be fed a few times a week to maintain tolerance.
- <u>Timing of introduction (CPS)</u> <u>Allergy check</u> <u>Food Allergy Canada</u> Avoid honey until 1 year of age to prevent botulism.
- Dietary fat content: Restriction of dietary fat during the first 2 years is not recommended since it may compromise the intake of energy and essential fatty acids, required for growth and development. After 2 years, a gradual transition begins from a high fat milk diet to a lower fat milk diet, as per Canada's Food Guide.
- · Promote family meals with independent/self-feeding while offering a variety of healthy foods. NHTI: 6-24 months Canada's Food Guide

 • Vegetarian diets: Vegetarian diets in children and adolescents (CPS)
- Fish consumption: 2 servings/week of low mercury fish: Fish consumption and mercury (HC)

ENVIRONMENTAL HEALTH

- Global Climate Change and Health (CPS) Health and Environment: (CPCHE) (AAP)

 2nd hand smoke/E-cigs/Cannabis exposure: There is no safe level of exposure. Advise caregivers to stop smoking and/or reduce 2nd hand smoke exposure, which contributes to childhood respiratory illnesses, SIDS, and neuro-behavioural disorders. Offer smoking cessation resources. Educate parents on the health risks and harms associated with e-cigs and cannabis (including edibles), and on safe storage.
- Sun exposure/Sunscreens: Minimize sun exposure. Wear protective clothing, hats, properly applied sunscreen with SPF \geq 30 for those > 6 months of age.
- Insect bites/repellents: Prevent insect bites. No DEET in < 6 months; 6–24 months 10% DEET apply max
- Insect offices/repetients: Prevent insect offices for DEET in Committing, 0–24 months for DEET apply max once daily; 2–12 years 10% DEET apply max TID. Preventing mosquito and tick bites (CPS)
 Pesticides: Ask about pesticide use and storage at home; avoid exposure. Wash all fruits and vegetables that cannot be peeled. Food additives and child health (AAP) Pesticide Exposure in Children. Evidence suggests that low blood lead levels can be used to the provide the provided of the provided provided to the provided p
- have adverse health effects on a child's cognitive function. Blood Lead Screening is recommended for children who:
- in the last 6 months lived in a house or apartment built before 1960;
- live in a home with recent or ongoing renovations or peeling or chipped paint;
- have a sibling, housemate, or playmate with a prior history of lead poisoning;
- live near point sources of lead contamination;
- have household members with lead-related occupations or hobbies;
- are refugees aged 6 months-6 years, within 3 months of arrival and again in 3-6 months.
- have emigrated or been internationally adopted from a country where population lead levels are higher than in Canada.
- are at risk of lead exposure from water pipes.
- require diagnostic investigations for neurodevelopmental delays/disorders

Prevention of Childhood Lead Toxicity (AAP) Lead and Children (CFP) Kids new to Canada (CPS) Low-level lead exposure (CPS) Reduce your exposure to lead (HC)

INJURY PREVENTION: In Canada, unintentional injuries are the leading cause of death in children and youth. Most of these preventable injuries are caused by motor vehicle collisions, suffocation, drowning, fire, poisoning, and falls. Injury deaths in Canada (PHAC). Unexplained injuries (e.g. fractures, bruising, burns) or

- injuries that do not fit the rationale provided or developmental stage raise concern for child maltreatment.

 Transportation in motorized vehicles including cars, ATVs, snowmobiles, etc.: Transport Canada Child passenger safety (AAP) Preventing ATV injuries (CPS) Snowmobile safety (Caring for Kids CPS)
 - Never leave a child unattended in a vehicle. Those < 13 years should sit in the rear seat, away from all airbags.
- Car seats: Install and follow size recommendations as per specific car seat model, and keep in each stage as long as possible, until the weight and height limit of the seat is reached: Infant/toddlers in a rear-facing car seat; Children who weigh at least 10 kg in a forward-facing seat with a harness; Children who weigh at least 18 kg in a booster seat. Then use properly fitted lap and shoulder belt in the rear seat for children taller than 145 cm (4' 9") and < 13 years. Replace car seat if in a collision.
- Children and youth younger than 16 years of age should not operate an ATV or a snowmobile, including vouth models.
- Bicycle: wear bike helmets and advocate for helmet legislation for all ages. Replace if it has sustained impact or is > 5 years old. Bicycle helmet legislation (CPS)
- Safe sleeping environment: Joint statement (CPS/CFSIDS/CICH/HC/PHAC) 2016 task force on SIDS (AAP) Sleep position, bed sharing, and SIDS: Healthy infants should be positioned on their backs on a firm surface for every sleep. Counsel parents on the dangers of other contributory causes of SIDS such as bed sharing, overheating, maternal smoking, 2nd hand smoke, alcohol, or illicit or sedating drug use.
- Positional plagiocephaly: While supine for sleep, the orientation of the infant's head should be varied to prevent positional plagiocephaly. Sleep positioners should not be used. After umbilical cord stump has detached, infants should have supervised tummy time while awake. Positional plagiocephaly (PCH)
- Crib safety/Room sharing: Infants should sleep in a crib, cradle, or bassinette that meets Health Canada regulations, is located in parents' room for the first 6 months of life, and is without soft objects, loose bedding, or similar items inside.
- Swaddling: Proper swaddling of the infant may promote longer sleep periods but could be associated with adverse events (hyperthermia, SIDS, or development of hip dysplasia) if misapplied. A swaddled infant must always be placed supine with free movement of hips and legs, and the head uncovered. Swaddling is contraindicated once baby shows signs of attempting to roll. Risks and Benefits of Swaddling (AJMCN)
- Pacifier use: Counsel on safe and appropriate use. Pacifiers may decrease risk of SIDS and should not be discouraged in the 1st year of life after breastfeeding is well established, but should be restricted in children with chronic/recurrent otitis media. Recommendations for pacifier use (CPS)
- Choking: Avoid hard, small and round, smooth, and sticky solid foods until age 4 years. Encourage child to remain seated while eating and drinking. Use safe toys, follow minimum age recommendations, and remove loose parts and broken toys. Preventing choking and suffocation in children (CPS)
- Drowning: Prevention of drowning (AAP)
- Both safety: Never leave a young child alone in the bath. Do not use infant bath rings or bath seats.
 Water safety: Recommend adult supervision, training for adults, 4-sided pool fencing with self-closing and-latching gates, lifejackets, swimming lessons, and boating safety to decrease the risk of drowning.
 Burns: Install smoke detectors in the home on every level. Keep hot water at a temperature < 49°C. Be vigilant
- with hot liquids on counter-tops.
- Poisons and other toxins: Keep medicines and cleaners, and other toxic substances locked up and out of child's reach. Have Poison Control Centre number (PCC#) handy. Use of ipecac is contraindicated in children. Install carbon monoxide detectors.
- Falls: Assess home for hazards never leave baby alone on change table or other high surface; use window guards and stair gates. Baby walkers are banned in Canada and should never be used. Ensure stability of furniture and TV. Advise against trampoline use at home. Trampoline safety (AAP)
- · Firearm safety: Advise on removal of firearms from home or safe storage to decrease risk of unintentional firearm injury, suicide, or homicide. Prevention of firearm injuries (CPS)

- Advise parents against using OTC cough/cold medications: <u>Treating cough and cold (CPS)</u>
 Complementary and alternative medicine (CAM): Questions should be routinely asked about the use of Complementary and alternative meachine (CIMP). Questions smouther total the sact about the total complementary and alternative medicine, therapy, or products, especially for children with chronic conditions. Natural health products (Caring for kids, CPS) Homeopathy (CPS) Chiropractic care (PCH)
 Fever advice/thermometers: Fever ≥ 38°C in an infant < 3 months needs urgent evaluation. Ibuprofen and
- acetaminophen are both effective antipyretics. Acetaminophen remains the first choice for antipyresis under 6 months of age; thereafter ibuprofen or acetaminophen may be used. Alternating acetaminophen with ibuprofen for fever control is not recommended in primary care settings as this may encourage fever phobia, and the potential risks of medication error outweigh measurable clinical benefit.
- Fever in the returning child traveller (CPS) Fever and temperature taking (Caring for Kids CPS)
- Footwear: Shoes are for protection, not correction. Walking barefoot develops good toe gripping and muscular strength. Footwear for children (CPS)
- Oral Health Smiles for Life
- Teething: Discomfort can be managed by providing gum massage with a cold facecloth/teething ring and appropriate use of oral analgesics. E.g. acetaminophen (all ages), or ibuprofen if ≥ 6 mos. Anaesthetics/numbing gels and teething necklaces are contraindicated. Dental devel (CDA) Homeopathic teething products (FDA)
- Dental Cleaning: As excessive swallowing of toothpaste by young children may result in dental fluorosis, children under 3 years of age should have their teeth and gums brushed twice daily by an adult using either water (if low risk for tooth decay) or a rice grain sized portion of fluoridated toothpaste (if at caries risk). Children 3-6 years of age should be assisted during brushing and only use a small amount (e.g. pea-sized portion) of fluoridated toothpaste twice daily. Caregiver should brush child's teeth until they develop the manual dexterity to do this alone, and should continue to intermittently supervise brushing after children
- assume independence. Begin flossing daily when teeth touch.

 Caries risk factors include: child has caries or enamel defects, hygiene or diet is concerning, parent has caries, premature or LBW infant, or no water fluoridation.

Canadian Risk Assessment Tool Caries-risk assessment (AAPDA)

- To prevent early childhood caries: avoid juices/sweetened liquids and constant sipping of milk or natural juices in both bottle and cup.
- Fluoride varnish should be used for those at caries risk. Consider dietary fluoride supplements only for high risk children who do not have access to systemic community water fluoridation. Fluoride & your child (CDA)
- Consider the first dentist visit by 6 months after eruption of 1st tooth or at age 1 year.

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RESOURCES 2: Family, Behaviour, Development, Physical exam, Investigations/ Screening (National)

BEHAVIOUR Disruptive behaviour (CPS/CACAP)

- Crying: Excessive crying may be caused by behavioural or physical factors or be the upper limit of the normal spectrum. Caregiver frustration with infant crying can lead to child maltreatment/inflicted injury (head injury, fractures, bruising). The Period of Purple Crying.
- Assess healthy sleep habits: Normal sleep (quality and quantity for age) is associated with typical development and leads to better health outcomes. Sleeping Behaviour (EECD). Recommended sleep duration per 24 hrs: 12-14 hrs (infants 4-12 months); 11-14 hrs (1-2 yrs); 10-13 hrs (3–5 yrs); 9-12 hrs (6–12 yrs); 8-10 hrs (13–18 yrs). Turn off computer/TV screens 60 minutes before bedtime. No computer/TV screens in bedroom. Recommended amount of sleep (AASM)
- · Night waking: Occurs in 20% of infants and toddlers who do not require night feeding. Counselling around positive bedtime routines (including training the child to fall asleep alone), removing nighttime positive reinforcers, keeping morning awakening time consistent, and rewarding good sleep behaviour has been shown to reduce the prevalence of night waking, especially when this counselling begins in the first 3 weeks of life. Behaviour modification & sleep (MJA) Sleep problems & night wakings (Sleep)

PARENTING/DISCIPLINE Supporting Positive parenting (CPS)

Inform parents that warm, responsive, flexible, and consistent discipline techniques are associated with positive child outcomes. Over reactive, inconsistent, cold, and coercive techniques are associated with negative child outcomes. Use of any physical punishment including spanking should be discouraged in all ages. Effective discipline for children (PCH)

Refer parents of children at risk of, or showing signs of, behavioural or conduct problems to structured parenting programs which have been shown to increase positive parenting, improve child compliance, and reduce general behaviour problems. Access community resources to determine the most appropriate and available research-structured programs. Parenting skills (EECD) e.g. The Incredible Years*, Triple P*, Strongest Families

HIGH RISK INFANTS/CHILDREN/PARENTS/CAREGIVERS/FAMILIES

- Maternal depression: Physicians should have a high awareness of maternal depression, which is a risk factor for the socio-emotional and cognitive development of children. Although less studied, paternal factors may compound the maternal-infant issues. Maternal depression and child development (CPS)
- Fetal alcohol spectrum disorder (FASD). Fetal Alcohol Spectrum Disorders (AAP)
- Adoption/Foster care: Children newly adopted or entering foster care are a high risk population with special needs for health supervision. Foster Care (CPS) International adoption (Caring for Kids CPS)
- Immigrants/refugees: Caring for kids new to Canada (CPS) CCIRH-Clinical Guidelines Cross-cultural communication (CPS)
- Aboriginal children: Social determinants of health in Aboriginal children in Canada (PCH)
- Social determinants of health (SDH): Inquiry about impact of poverty: "Within the past 12 mos, did
 you worry that your food would run out before you got money to buy more, OR did the food not last and you didn't have money to get more?" Food insecurity (Pediatrics) CLEAR tool kit Poverty Tool (OCFP) Social determinants of health (CFPC) Infrastructure to address SDH (PCH)
- · Prevention of child maltreatment:
- Risk factors for child maltreatment:
- Parent (low socio-economic status, maternal age <19 years, single parent family, non-biological parents, abused as child, substance abuse, lack of social support, unplanned pregnancy or negative parental attitude towards pregnancy).
- Family (spousal violence, poor marital relations, poor child-parent relationship, unhappy family life).
- Child (behaviour problems, disability).
- Discuss with parents of preschoolers teaching names of genitalia, appropriate and inappropriate touch, and normal sexual behaviour for age.
- Exposure to personal violence and other forms of violence has significant impact on physical and emotional well-being of children.
- Assess home visit need: There is good evidence for home visiting by nurses during the perinatal period through infancy for first-time mothers of low socioeconomic status, single parents or teenaged parents to prevent physical abuse and/or neglect.

Child maltreatment prevention (USPSTF) Bruising in suspected maltreatment cases (CPS) Abusive head trauma (CPS) INSPIRE: 7 strategies for ending violence against children (WHO)

NONPARENTAL CHILD CARE

Inquire about current child care arrangements. High quality child care is associated with improved paediatric outcomes in all children.

. Factors enhancing quality child care include: practitioner general education and specific training; group size and child/staff ratio; licensing and registration/accreditation; infection control and injury prevention; and emergency procedures.

Health implications of children in child care centres (PCH): Part A and Part B Guide to child-care in Canada (CPS): Well Beings

Encourage parents to read and sing to their infants and children and to limit TV, video and computer games to provide more opportunities for reading.

Read, speak, sing: promoting literacy (CPS) Literacy Promotion (AAP) Reading aloud to children: the evidence (Arch Dis Child)

FAMILY HEALTHY ACTIVE LIVING/SEDENTARY BEHAVIOUR/SCREEN TIME

Healthy active living (CPS) CSEP guidelines Screen time and young children (CPS) Encourage increased physical activity, with parents as role models, through interactive floor-based play for infants and a variety of activities for young children, and decreased sedentary pastimes.

• Media use: Counsel on appropriate media use; for children <2 years, screen time (eg, TV, computer, electronic games) is not recommended except for video-chatting; for children 2-4 years, screen time should be limited to <1 h/day; less is better; educational and prosocial programming is better.

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DEVELOPMENT

Manoeuvres are based on evidence-based literature on milestone acquisition. Evidence-based milestone ages (PCH). They are not a developmental screen, but rather an aid to developmental surveillance. They are set after the time of typical milestone acquisition. Thus, absence of any one or more items is considered a high-risk marker and indicates consideration for further developmental assessment, as does parental or caregiver concern about development at any stage. Assessment tools Table 4 (CPS) Global Delay (CPS)

- Best Start website contains resources for maternal, newborn, and early child development
- Getting it right at 18 months (CPS) Measuring in support of early childhood development (CPS)
- Identifying and treating speech & language delays (PCH) Encyclopedia on Early Childhood Development

TOILET LEARNING

The process of toilet learning has changed significantly over the years and within different cultures. In Western culture, a child-centred approach is recommended, where the timing and methodology of toilet learning is individualized as much as possible.

Toilet learning (CPS) Toilet-training strategy (PCH): Part A Part B

AUTISM SPECTRUM DISORDER

Specific screening for ASD at 18-24 months should be performed on all children with any of the following risk factors: failed items on the social/emotional/communication skills inquiry, sibling with autism, or developmental concern by parent, caregiver, or physician. Increased prevalence for ASD is also associated with prematurity, and certain chromosomal, genetic and neurological disorders. Standardized, evidence-based screening tools for detection of early ASD symptoms should be used as per guidelines.

PHYSICAL EXAMINATION

- Jaundice: Bilirubin testing (total and conjugated) if persists beyond 2 wks of age. Neonatal Hyperbilirubinemia Guidelines (CPS) Newborn screening for biliary atresia (AAP).
- Bruising: Unexplained bruising warrants evaluation re: child maltreatment or medical illness.
- Blood pressure: Check BP at all visits for those at risk > 3 yrs old. Some risk factors: obesity, sleep-disordered breathing, prematurity, renal disease, congenital heart disease, diabetes, or on med'ns that ^ BP. High blood pressure in children, including definitions: (NIH Working Group) (AAP)
- Fontanelles: The posterior fontanelle is usually closed by 2 months and the anterior by 18 months. The Abnormal fontanel (AAFP)
- Vision inquiry/screening: <u>Vision screening (CPS)</u>
- Check Red Reflex for serious ocular diseases such as retinoblastoma and cataracts.
- Corneal light reflex/cover-uncover test & inquiry for strabismus: With the child focusing on a light source, the light reflex on the cornea should be symmetrical. Each eye is then covered in turn, for 2-3 seconds, and then quickly uncovered. The test is abnormal if the uncovered eye "wanders" OR if the covered eye moves when uncovered.
- Check visual acuity at age 3-5 years.
- Hearing inquiry/screening: Language delay or parental concerns about hearing acuity should prompt a rapid referral for hearing assessment. Formal audiology testing should be performed in all high-risk infants, including those with normal UNHS. Older children should be screened if clinically indicated.
- Inspect tongue mobility for ankyloglossia if breastfeeding problems. Ankyloglossia and breastfeeding (CPS)
- Check palate for cleft Cleft lip/palate (AAP)
- Tonsil size/sleep-disordered breathing: Screen for sleep problems. Behavioural sleep problems and snoring in the presence of sleep-disordered breathing warrants assessment re: obstructive sleep apnea (OSA). OSA (AAP) FIRST TEETH

· Dental: Examine for problems including caries, oral soft tissue infections or pathology; and for normal teeth eruption sequence. CRAT

Check neck for torticollis.

· Umbilicus: Gently pat dry and review S&S of infection. Preventing sepsis (Cochrane)

• Hips: There is insufficient evidence to recommend routine diagnostic imaging for screening for developmental dysplasia of the hips, but examination of the hips should be included until at least one year, or until the child can walk. Exam includes assessing limb length discrepancy and asymmetric thigh or buttock

7-12 mos 6-8 yrs 7-8 yrs 9-13 mos Lateral incisors 16-22 mos 10-12 yrs First molars 13-19 mos Second molars 25-33 mos 10-12 vrs 20-31 mos 10-12 yrs 12-18 mos 9-11 yrs First molars 9-12 yrs 16-23 mos 7-16 mos 7-8 yrs Lateral incisors Central incisors 6-10 mos 6-8 yrs

(gluteal) creases; performing Ortolani manoeuvre (usually negative after 3 mos); and testing for limited abduction (usually positive after 3 mos). Consider selective imaging between 6 wks and 6 mos if risk factor (i.e. breech, family history, hip instability on physical exam). DDH (AAP)

- · Muscle tone: Assessment should be performed for abnormal tone or deep tendon reflexes, or for asymmetric movements (moving one side more than other). These may be early signs of cerebral palsy or neuromotor disorder and suggest the need for further assessment. CP Features (DM&CN)
- Spine/Anus: Examine spine for cutaneous signs of occult spinal dysraphism. Check anal patency. Congenital Brain and Spinal Cord Malformations (AAP)

INVESTIGATIONS/SCREENING

- · Anemia screening: Screening for iron deficiency anemia should be considered between 6 and 18 months of age for infants/children from high risk groups: E.g. Low SES; Indigenous communities; newly arrived refugee, internationally adopted and immigrant children from resource-poor countries; low-birth-weight and premature infants; infants/children fed whole cow's milk before 9 months of age or at quantities > 500 mls/day; prolonged bottle feeding beyond 15 months of age; or sub-optimal intake of iron-containing foods. Beyond this age, anemia screening as per additional risk factors. Iron requirements (CPS)
- Hemoglobinopathy screening: Screen all neonates from high-risk groups: Asian, African & Mediterranean.
- Universal newborn hearing screening (UNHS): Effectively identifies infants with congenital hearing loss and allows for early intervention & improved outcomes. Universal newborn hearing screening (CPS)
- Tuberculosis TB skin testing: For up-to-date information, see Canadian TB Standards: 2014









RESOURCES 3: Immunization (National)

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ROUTINE IMMUNIZATION

- See the Canadian Immunization Guide for recommended immunization schedules for infants, children, youth, and pregnant women from the National Advisory Committee on Immunization (NACI).
- Provincial/territorial immunization schedules may differ based on funding differences. Provincial/territorial immunization schedules are available at the Public Health Agency of
- Immunization pain reduction strategies: During vaccination, pain reduction strategies with good evidence include breastfeeding or use of sweet-tasting solutions, giving the most painful vaccine last, and consideration of topical anaesthetics. Reducing vaccine pain (CMAJ)
- Acetaminophen or ibuprofen should not be given prior to, but after vaccination as required. Prophylactic Antipyretic Administration (PLOS ONE)
- Information for physicians on vaccine safety:
- Canada's vaccine safety program (CPS)
 Autism spectrum disorder: No causal relationship with vaccines (PCH)
- Information for parents on vaccinations can be accessed through:
- ImmunizeCA
- Caring for Kids website (CPS) including Your Child's Best Shot
- A Parent's Guide to Vaccination (PHAC)
 Working with vaccine-hesitant parents (CPS)
- Deciding to vaccinate (HC)
- Addressing vaccine hesitancy (CFP)

VACCINE NOTES

(Adapted from websites of NACI and the Canadian Immunization Guide September 2019)

- Diphtheria, Tetanus, acellular Pertussis, inactivated Polio virus vaccine, and Haemophilus influenzae B (DTaP-IPV-Hib): DTaP-IPV-Hib vaccine may be used for all doses in the vaccination series in children < 2 years of age, and for completion of the series in children < 5 years old who have received ≥ 1 dose of DPT (whole cell) vaccine (e.g. recent immigrants).
- · Diphtheria, Tetanus, acellular Pertussis, inactivated Polio virus vaccine, Haemophilus influenzae B, and Hepatitis B (Hep B) (DTaP-IPV-Hib-Hep B) is used for 3 of the 4 initial doses in some jurisdictions with routine infant Hep B vaccination programs.
- Diphtheria, Tetanus, acellular Pertussis, inactivated Polio virus vaccine (DTaP-IPV) may be used up to age 7 years and for completion of the series in incompletely immunized children 5-7 years old (healthy children ≥5 years of age do not require Hib vaccine).
- Tetanus, Diphtheria, Pertussis, Polio (Tdap-IPV) Vaccine, a quadrivalent vaccine containing less pertussis and diphtheria antigen than the preparations given to younger children and less likely to cause local reactions, is used for the preschool booster at 4-6 years of age in some jurisdictions and should be used in all individuals > 7 years of age receiving or completing their primary series.
- Diphtheria, Tetanus, acellular Pertussis vaccine (dTap) is used for booster doses in people ≥ 7 years of age. All adults should receive at least one dose of pertussis containing vaccine (excluding the adolescent booster). Immunization with dTap should be offered to all pregnant women (≥13 weeks of gestation, ideally at 27 – 32 weeks) to provide immediate protection to infants less than 6 months of age.
- Haemophilus influenzae type b conjugate vaccine (Hib): Hib is usually given as a combined vaccine (DTaP-IPV-Hib above). If required and not given in combination, Hib is available as Haemophilus b capsular polysaccharide – PRP conjugated to tetanus toxoid (Act-HIBTM or HiberixTM). The number of doses required depends on the age at vaccination and underlying
- Rotavirus vaccine: Universal rotavirus vaccine is recommended by NACI and CPS. Two oral vaccines are currently authorized for use in Canada: Rotarix (2 doses) and RotaTeq (3 doses). Dose #1 is given between 6 weeks and 14 weeks+6 days with a minimum interval of 4 weeks between doses. Maximum age for the last dose is 8 months/0 days. Recommendations for the use of rotavirus vaccines in infants (CPS)
- Measles, Mumps and Rubella vaccine (MMR), and MMR-varicella (MMRV): The first dose is given at 12-15 months and a second dose should be given with the 18 month or preschool dose of DTaP-IPV (±Hib) (depending on the provincial/territorial policy), or at any intervening age that is practical but at least 4 weeks after the first if MMRV. If MMRV is not used, MMR and varicella vaccines should be administered concurrently, at different sites, or separated by at least 4 weeks.
- Varicella vaccine: Children aged 12 months to 12 years who have not had varicella should receive 2 doses of varicella vaccine (univalent varicella or MMRV). Unvaccinated individuals ≥ 13 years who have not had varicella should receive two doses at least 28 days apart (univalent varicella only). Consult NACI guidelines for recommended options for catch-up varicella vaccination. Varicella and MMR vaccines should be administered concurrently, at different sites if the MMRV [combined MMR/varicella] vaccine is not available, or separated by at least 4 weeks. Preventing varicella (PCH)

• Hepatitis B vaccine (Hep B):

- Hepatitis B vaccine can be routinely given to infants or preadolescents, depending on the provincial/territorial policy. The first dose can be given at 1 month, or at 2 months of age to fit more conveniently with other routine infant immunization visits. The second dose should be administered at least 1 month after the first dose, and the third at least 2 months after the second dose, but again may fit more conveniently into the 4- and 6-month immunization visits. Alternatively, Hep B can be administered as DTaP-IPV-Hib-HepB vaccine in infants, with the first dose at 2 months of age. A two-dose schedule for adolescents is an option.

- For infants born to a mother with acute or chronic hepatitis B (HBsAg-positive), the first dose of Hep B vaccine should be given at birth (with Hepatitis B immune globulin) and repeat doses of vaccine at 1 and 6 months of age. Premature infants of birthweight less than 2,000 grams, born to HB- infected mothers, require four doses of HB vaccine at 0, 1, 2, and 6 months. The last dose should not be given before 6 months of age. Infants of HBsAgpositive mothers also require Hepatitis B immune globulin at birth and follow-up immune status at 9–12 months for HBV antibodies and HBsAg.

 Infants with HBsAg-positive fathers, siblings, or other household contacts require Hepatitis
- B vaccine at birth, and at 1 month, and 6 months of age.

 Hepatitis B vaccine should also be given to all infants from high-risk groups, such as:
- infants where at least one parent has emigrated from a country where Hepatitis B is endemic:
- infants of mothers positive for Hepatitis C virus;
- infants of substance-abusing mothers.
- For children in medically high risk groups (e.g. immunocompromising conditions, chronic renal failure, dialysis), see <u>Hepatitis B chapter in the Canadian Immunization Guide</u> for schedules re: timing and number of Hep B vaccine doses and monitoring of HB antibody levels.
- Hepatitis A or A/B combined (HAHB when Hepatitis B vaccine has not been previously given):
 - Children 6 months and older in high-risk groups should receive 2 doses of the hepatitis A vaccine given 6-36 months apart (depending on product used). HAHB is the preferred vaccine for individuals with indications for immunization against both hepatitis A and hepatitis B, who are ≥12 months unless medical condition indicates high dose Hep B vaccine required.
- These vaccines should also be considered when traveling to countries where Hepatitis A or B are endemic.
- Possible HAHB schedules include 12 months to 18 years: 2 doses at months 0 and 6-12; OR 3 doses at months 0, 1, and 6 depending on age and product used.
- Pneumococcal vaccine: conjugate (Pneu-C-13) and polysaccharide (Pneu-P-23): Recommended schedule, number of doses, and product depend on the age of the child, risk for pneumococcal disease, and when vaccination is begun. Consult NACI guidelines. Routine infant immunization: administer three doses of Pneu-C-13 vaccine at minimum 8-week intervals beginning at 2 months of age, followed by a fourth dose at 12 to 15 months of age. For healthy infants, a three-dose schedule may be used, with doses at 2 months, 4 months, and 12 months of age. Children 2 years and above who are at highest risk of invasive pneumococcal disease should receive Pneu-P-23. Consult NACI guidelines for eligibility and dosing schedule.

• Meningococcal vaccine:

- Canadian children should be immunized with a MCV-C at 12 months of age, or earlier depending on provincial/territorial vaccine programs; suggested one dose at 12 months of age. - MCV-4 (A, C, Y, W) should be given to children two months of age and older who are at
- increased risk for meningococcal disease or who have been in close contact with a case of invasive meningococcal A,C,Y, or W disease. MCV-4-CRM (MenveoTM) should be used
- for those less than 2 years old; any MCV-4 may be used for older children.

 A routine booster dose with MCV-4 or MCV-C is recommended at approximately 12 years of age. High risk children require boosters at 5 year intervals.
- of age. High risk children require boosters at 3 year intervals.

 MCV-4 should be given to children two months of age and older travelling to areas where meningococcal vaccine is recommended. MCV-4 CRM is recommended for immunization of children 2 months to less than 2 years of age. Any MCV-4 may be used for older children.

 Multi-component meningococcal serogroup B (4CMenB) vaccine should be considered for the control of the control of
- active immunization of children ≥ 2 months of age who are at high risk of meningococcal disease or who have been in close contact with a case of invasive meningococcal B disease or travelling to an area where risk of transmission of meningococcus B is high. Two to 3 doses are required at 4 or 8 wk intervals depending on age.
- Routine prophylactic administration of acetaminophen after immunization and/or separating 4CMenB vaccination from routine vaccination schedule may be considered for preventing fever in infants and children up to 3 years of age.
- Influenza vaccine: Recommended for all children, particularly those aged 6-59 months and other children at high risk.
 - Previously unvaccinated children up to 9 years of age require 2 doses with an interval of at least 4 weeks. The second dose is not required if the child has received one or more doses of influenza vaccine during the previous immunization season. A quadrivalent vaccine should be used if available.
- For children between 6 and 23 months, the quadrivalent inactivated influenza vaccine (QIV) should be used, and if not available, either unadjuvanted or adjuvanted trivalent inactivated vaccine (TIV).
- Children 2-18 years of age should be given QIV, or quadrivalent live attenuated influenza vaccine (LAIV) if not contraindicated. If a quadrivalent vaccine is not available, TIV should be used. Egg allergy is not a contraindication to vaccination with QIV, TIV, or LAIV.

 - Immunize with TIV or QIV in the second or third trimester to provide protection for the
- pregnant woman and infant <6 months of age.
- LAIV is contraindicated for children i) with immune compromising conditions, ii) with severe asthma (defined as current active wheezing or currently on oral or high-dose inhaled glucocorticosteroids, or medically attended wheezing within the previous 7 days), or iii) on
- Respiratory syncytial virus (RSV) vaccine: Palivizumab (Synagis) prophylaxis during RSV season for children with chronic lung disease, congenital heart disease, or born preterm. Preventing hospitalizations for respiratory syncytial virus infection (CPS)

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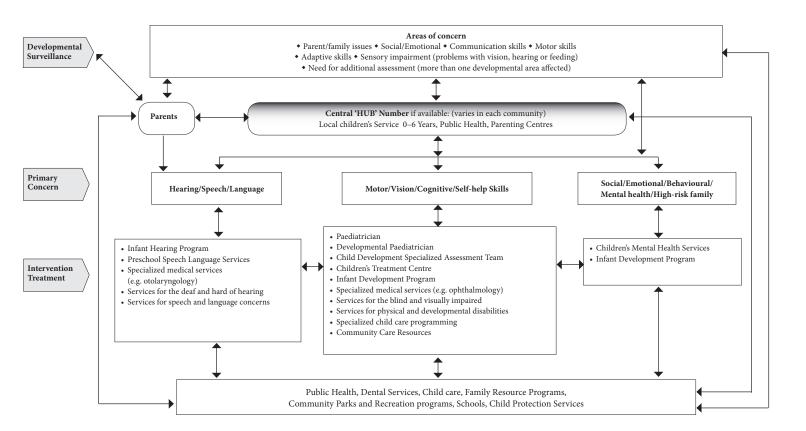




RESOURCES 4: Early Child Development and Parenting Resource System and Local Resources/Referrals Table (National)

www.rourkebabyrecord.ca | See <u>RBR parent web portal</u> for corresponding parent resources ©2020 Drs. L Rourke, D Leduc and J Rourke. Revised Jan. 22, 2020

Early Child Development and Parenting Resource System



Local Resources and Referrals

Service	Contact person	Phone number	Website	Other