## Using infographics as an adjunct for educating caregivers in the proper use of antipyretics in children with fever.

## BACKGROUND

Febrile illness in pediatric patients, especially children younger than 36 months continues to be a health concern with potential serious consequences. UMC currently has patient information regarding fever control available to add to patient instructions at time of discharge in epic, however the information is more than twelve pages, difficult for parents to use as a reference, and does not provide an infographic to assist patients who have a first language other than English.

## PURPOSE

The purpose of this evidence based project was to design and implement a single sheet pediatric fever educational infographic to improve the use of antipyretic treatments in home settings, to improve care giver knowledge and understanding regarding fever management, facilitate a positive educational experience between patient and clinical staff.

# METHODS

Distribute a weight based antipyretic medication infographic to pediatric caregivers at each urgent care visit and the use of Casey's Model of Nursing will help improve care and management of pediatric patients with fevers.

## University Medical Center | 1800 W. Charleston Blvd. Las Vegas, NV 89102

## Acetaminophen dosage chart for infants and children 11 years and younger If possible, use weight to dose; otherwise, use age

mL = milliliter mg = milligram	<b>6-11 lbs</b> 0-3 mos	<b>12-17 lbs</b> 4-11 mos	18-23 lbs 12-23 mos	<b>24-35 lbs</b> 2-3 yrs	<b>36-47 lbs</b> 4-5 yrs
Infants' acetaminophen liquid for example Infants' Tylenol' Oral Suspension 160 mg per 5 mL		thcare professional		5 mL	_
Children's acetaminophen liquid for example Children's Tylenol' Oral Suspension 160 mg per 5 mL	¢[	Ask a healthcare professional	a]	Set.	25 nL
Children's 80 mg acetaminophen tablets 80 mg per chewable tablet	÷ [	Ask a healthcare professional		2 chewables	3 chewables
Children's or Junior 160 mg acetaminophen tablets for example Children's Tylenol* Chewables 160 mg per chewable tablet	¢[	Ask a healthcare professional		1 chewable	1 <sup>1</sup> /2 chewable

hild's current weight. If you are not sure of your child's weight, use age. As children grow, their doses change over time. evice that came with the medicine (syringe or dosing cu

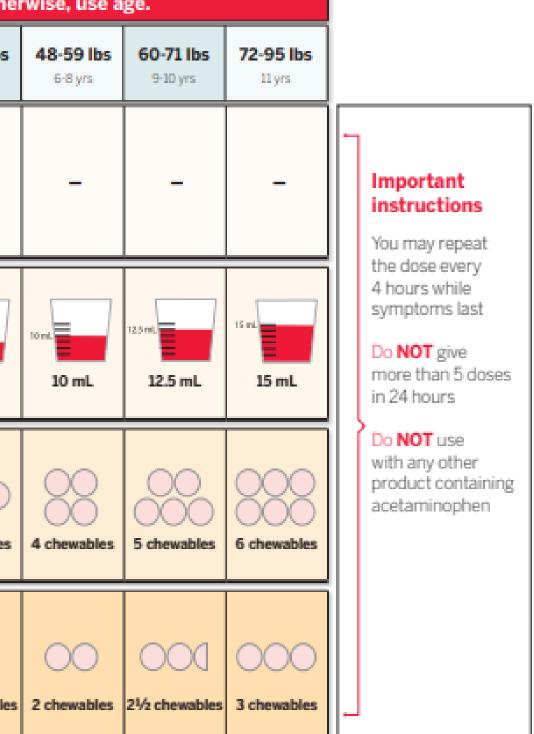
## Tabla de Dosificación de Paracetamol para bebés y niños de 11 años y menores

Paracetamol	Si es posible, use peso para dosificar; de l						
mL = miliitro mg = miligramo	6-11 lbs 7-3 means	12-17 lbs 4-11 meses	18-23 lbs	24-35 lbs 2-3 atos	36-47 lbs 4-5 atos		
Líquido de paracetamol para bebés <i>por ejemplo</i> Tylenol® para bebés Suspensión Oral 160 mg por 5 ml		fesional de la salud (La recomendación	ml	Sml	-		
Líquido de paracetamol para niños <i>por ejemplo</i> Tylenol® para niños Suspensión oral 160 mg por 5 ml		Pregúntale a un rofesional de la saluc		Set.	7,5 ml		
Tabletas de paracetamol de 80 mg para niños 80 mg por tableta masticable		Pregúntele a un profesional de la salue		2 masticables	3 masticable		
Infantil o Junior 160 mg comprimidos de paracetamol <i>por ejemplo</i> Masticables Tylenol® para niños 160 mg por tableta masticable		Pregúntele a un profesional de la saluc		1 masticable	O( 1 ½ mastical		
		trucciones de la e I peso actual de si			su hijo, use la e		

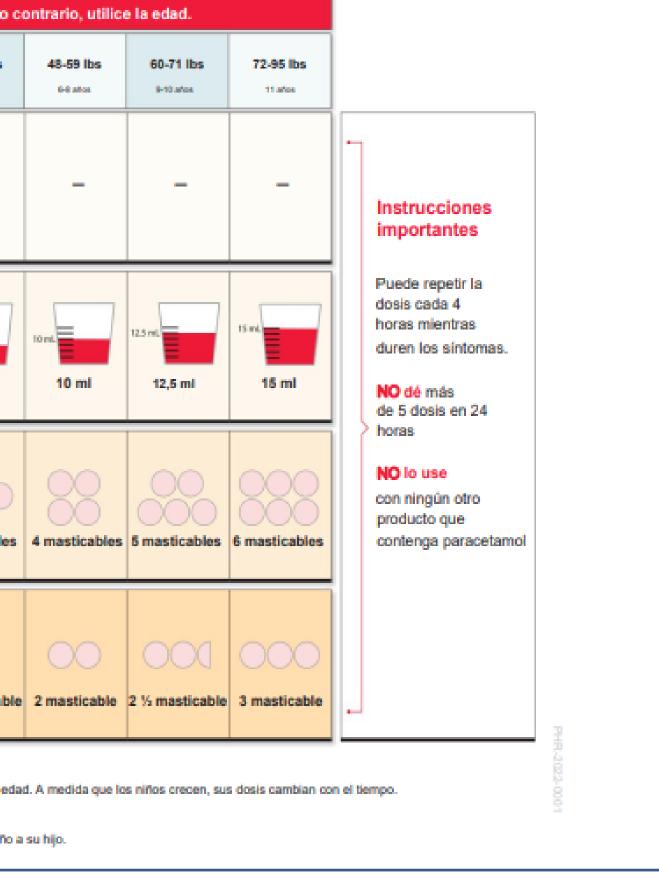
Encuentre la dosis para el peso actual de su hijo. Si no está seguro del peso de su hijo, use la edad. A medida que los niños crecen, sus dosis cambian con el tiernoo. Utilice únicamente el dosificador que viene con el medicamento (jeringa o vaso dosificador). Espere el tiempo correcto entre dosis. Si le da otra dosis demasiado pronto, podría hacerle daño a su hijo

## Stakeholders:

Shanell Bagley RN BSN Jun Mangrobang RN BSN Pia Miclat LPN Myrna Gleason CNA Rick Kraske RN MPH Blue Diamond Quick Care



amount of time between doses. If you give another dose too soon, it could harm your child.



Caregivers will verbalize improved understanding of antipyretic medication in fever reduction. Survey among ambulatory staff will be performed to ensure applicability to practice and usefulness in promoting positive patient educational experience.

The implementation of a caregiver education program which includes infographic handouts of antipyretic medications will improve fever management, and patient outcomes.

AD McCrorie, C Donnelly and KJ McGlade. Infographics:Healthcare Communication for the Digital Age.(2016). Ulster Med Journal, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4920488/ B.Barlow, Andrew Webb, Ashley Barlow. Maximizing the visual translation of medical information: A narrative review of the role of infographics in clinical pharmacy practice, education, and research. (2021). Journal of the American College of Clinical Pharmacy, https://accpjournals.onlinelibrary.wiley.com/doi/abs/10.1002/jac5.1386 H. Shonna Yin, B. Drever, L. Van Schaick, et al. Randomized Controlled Trial of a Pictorgram-Based Intervention to Reduce Liquid Medication Dosing Errors and Improve Adherence Among Caregivers of Young Children. (2008). Arch Pediatric Adolescent Medicine. <u>https://jamanetwork.com/journals/jamapediatrics/fullarticle/380096</u> O.Van Hecke, J.Lee, Chris Butler, et al. Using evidence-based infographics to increase parents understanding about antibiotic use and antibiotic resistance: a proof-of-concept study. (2020). Journal of the British Society 101 Antimicrobial Resistance https://www.ncbi.nlm.nih.gov/pmc/articles/PMC8210337/





## RESULTS

# CONCLUSIONS

# REFERENCES

