CAREER'S IN NUTRITION & WELLNESS: **PEDIATRIC NUTRITION**

BY CELINA CHAN RD, LDN, CLC



CELINA CHAN



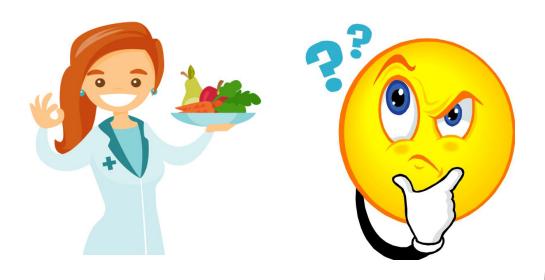


- Born and raised in Newton, MA
- Chinese American
- Grew up with Mom, Dad, & one older brother
- Fun Fact: recently got married! 2020 COVID wedding



COLLEGE

- Amherst, MA
- Bachelor's Degree in Nutrition
- Minor: Food Science



Keene state college



DIETETIC INTERNSHIP

- Keene, NH
- 16 Dietetic Interns (5 distance, 11 on-site)
- Community Nutrition focus
- Rotations in Clinical, Community, Food Service, & Independent Study
- Total ~1,320 hours of experience



CLINICAL ROTATION

ROTATIONS:

2 weeks: General Adult- diabetes, renal, BMT, CHF, T2DM, etc.
1 week: OB & Tube feeds
2 weeks: In-patient Pediatrics (*CHAD- Children's Hospital at Dartmouth; PICU- Pediatric Intensive Care Unit*)
1 week: Gastroenterology- pancreatitis, whipple procedures, colostomy, ileostomy, IBD, etc.
2 weeks: Outpatient Clinics: Bariatrics, Cardiology, Transplant, Endocrinology, Norris Cotton Cancer Center
1 week: ICU Tube feeds
1 week: TPN
2 weeks: Staff Relief

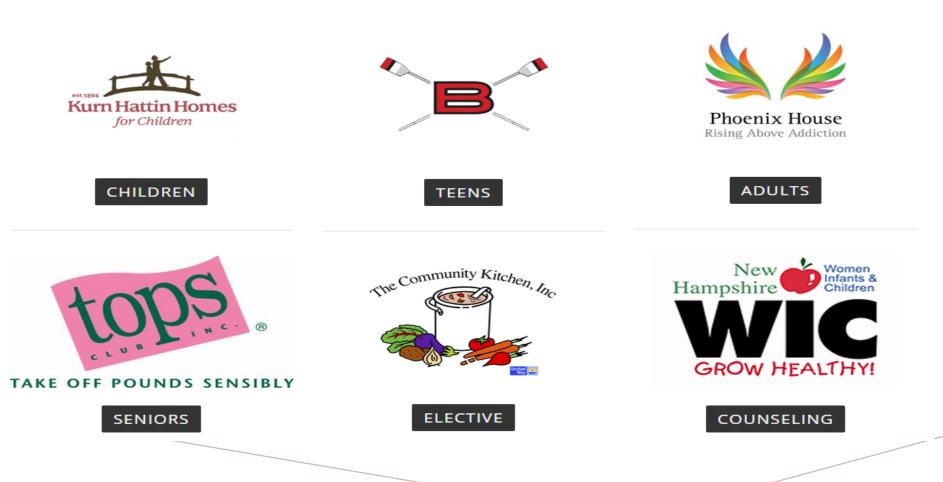
Final Case Study

Pediatric Nutrition: Management of SBR, dehydration, & high ileostomy output- The Influential Role of a Clinical Dietitian

COMMUNITY ROTATION

Community Experience

Please click on the button tabs below to learn more about my experience with each age group.



FOOD SERVICE

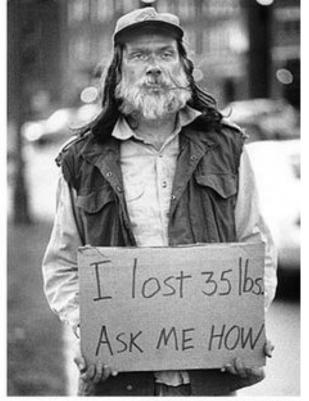


Working with Chefs





INDEPENDENT STUDY



NO AGENDA HERE: Ensminger



- Nutrition & Homelessness
 - Community Breakfast
 - Men's Shelter
 - Women's Shelter
 - Transitional Housing
 - UNH Cooperative Extension
 - Community Kitchen
 - Food Bank of Western MA
 - Future Project Example

PASSED RD EXAM!

Dietitians





What my friends think I do

What society thinks I do

What my patients think I do



What doctors think I do



What I think I do

1 mL/kg = 1500 mL water elevity 1.2 1500 ÷ 1.2 = 1250 mL ÷ 24= 52.083 ÷ 55 mL 55 mL × 2.4 (hrs) = 1320 mL × 1.2 kcal=154 1.32 × 55.5 = 73.26 ÷ 739 protein 84×1320 = 1108.8 ÷ 1109 mL free water 500 mL - 1109 mL = 391 mL water nutder

What I actually do

levity 1.2, apal rate

ONE DOES NOT SIMPLY

"LEARN NUTRITION"

IN A MONTH

When employers want you to have 10 years of work experience before the age of 22



To get a job, I need experience



To gain experience, I need a job

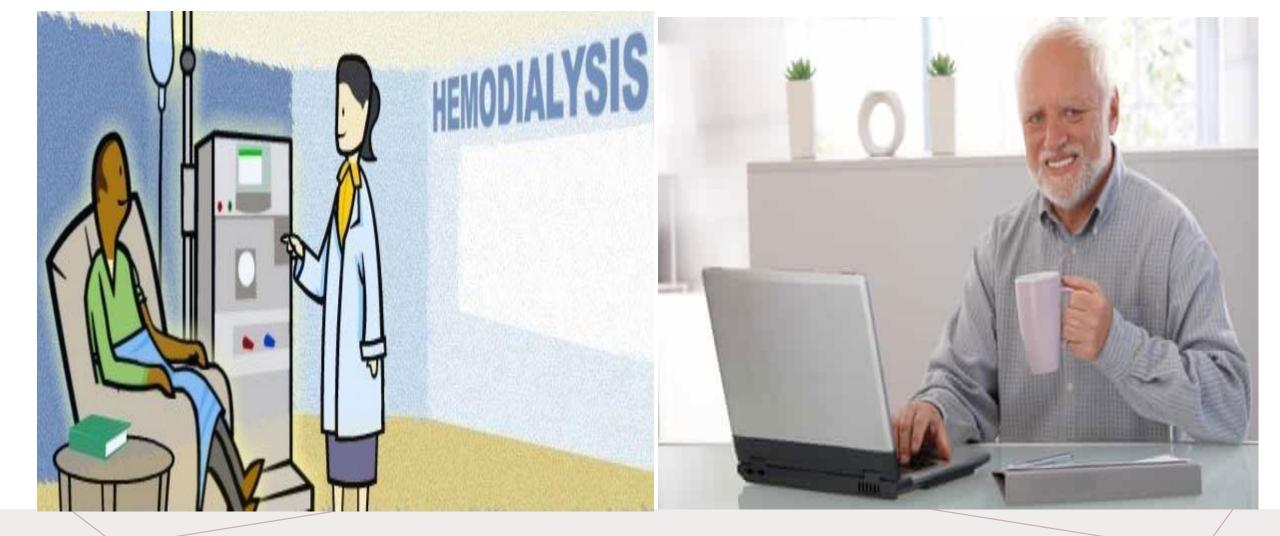


FIRST JOB

- Long term acute care
 hospital
- Per Diem
- 56 bed hospital
- Medical Nutrition Therapy
- Enteral and Parenteral nutrition
- Diet education







JOB #3: "I'VE NOT FAILED. I'VE JUST FOUND 10,000 WAYS THAT WON'T WORK"- THOMAS EDISON

BOSTON MEDICAL CENTER

- The Grow Clinic (Failure-to-Thrive clinic)
 - An outpatient sub-specialty clinic that provides comprehensive specialty medical, nutritional, developmental and social services and home visiting to children from the Greater Boston area referred with Failure To Thrive (FTT)
- Baby Steps Clinic (NICU follow up clinic)
 - Provides developmental evaluations, nutritional assessments, and home visiting to former premature infants or term infants with complicated newborn courses (ex. NAS, feeding



EXCEPTIONAL CARÉ. WITHOUT EXCEPTION.

THE GROW CLINIC

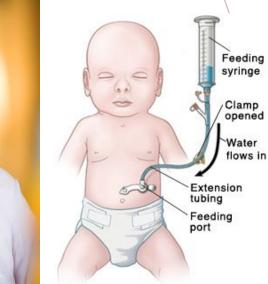
https://www.youtube.com/watch?v=NtNk7HOkaRI&t=151s



PEDIATRIC NUTRITION







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DAY IN THE LIFE

Clinic Days

- Anthropometrics
- Medical Nutrition Therapy
- Nutrition Counseling (high calorie diet)
- Collaboration with multidisciplinary team (SW, MD, R

Home/School visiting

- Building trust
- Collaboration with multidisciplinary team (SW, RD)
- What is going on at home/shelter/rehab? Resources
- Grocery Deliveries
- Highchairs
- Collaborating with teachers and care

HOME VISITS

SNAP





CERTIFIED LACTATION COUNSELOR





- Boston Breastfeeding Coalition
- Vital Village
- Scholarship
- Volunteer at Baby Café
- Training Course & Exa



Join us as registered dietitian, Celina Chan, leads a nutrition infoSHOP for expecting moms and new moms with babies!

Participants will learn: 1. What to eat/not to eat while breastfeeding! 2. Healthy food choices for mom and baby! 3. Why breast milk is nutritionally important for babies and how it stacks up to formula!

> Celina Chan, RD, LDN, has been a register dietitian at Boston Medical Center since Jun 2016, working in Baby Steps and Grow Clini She is trained as a CAPPA Lactation Educat and has been providing breastfeeding suppor East Boston as a volunteer through Vital Villa She is dedicated to working alongside familie

Facebook.com/EastieBabiesGroup EastieBabies@gmail.com BostonBreastfeeding.weebly.com Boston Centers Boston Centers Boston Centers Families



WHEN

e WHERE Paris Street BC

112 Paris St. Fast Boston GROW CLINIC TEAM



BOSTON CHILDREN'S HOSPITAL

- Martha Eliot Health Center
- Division of Gastroenterology, Hepatology, and Nutrition
- Growth & Nutrition Program
- Open Clinic
- Jimmy Fund Clinic



- Growth & Nutrition
 Program Team
 - Gastroenterologist
 - Dietitian
 - Speech Language
 Pathologist
 - Social Worker
 - Behavioral Psychologist
 - GI Nurse Practitioner •
 - Premies, infants, toddlers, children, school age, teens, young adults

OPEN CLINIC:

Autism

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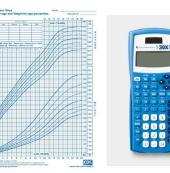
- FTT/Malnutrition
 - Overweight/Obesity
- Enteral Nutrition (+ Home blended Tube Feedings)
- Congenital Malformations/defects (cerebral palsy, heart defects, down syndrome, neural tube defects, etc.)
- Multiple Food Allergies
- ARFIDCHF
- BPD
- EoE
- Oncology
- IBS/Low FODMAP diet
- International patier
- Genetic Disorders
- Feeding difficulties

FUNTSTONES

Picky Eating



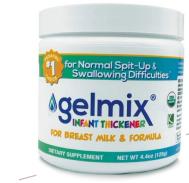














Choose MyPlate.gov

SAMPLE VISIT

- Patient History (birth history, family history, medical history)
- Diagnosis/Reason for Referral
- Allergies
- Assessment
- Parents main concerns? Vs Provider concerns
- Diet recall/typical intake
 - Beverages
 - Foods
 - Mixing recipes
 - Enteral/PO nutrition
- Mealtimes (how long, where, what, who)
- Nutrition Supplements
- Anthropometrics (height, weight, BMI, weight for length, head circumference)

- Growth Curve (rate of weight gain ex. 6g/day)
- Vitamins/Minerals
- Nutrition Related Medications
- Labs
- PES statement (Problem, Etiology, Signs/symptoms)
- Nutrition Focused Physical Findings
- Nutrition Prescription
- Nutrition Intervention
- Collaboration of Care
- Monitoring and Evaluation
- Follow up

CONSTANT CHANGE...GROWTH!

Age	Male	Female	Pregnancy	Lactation
0-12 months*		10 mcg (400 IU)		
1–13 years	15 mcg (600 IU)			
14–18 years	Ŭ	15 mcg (600 IU)	15 mcg (600 IU)	15 mcg (600 IU)
19–50 years	-	15 mcg (600 IU)	15 mcg (600 IU)	15 mcg (600 IU)
51–70 years	15 mcg (600 IU)	15 mcg (600 IU)		
>70 years	-	20 mcg (800 IU)		

[5]				
Age	Male	Female	Pregnancy	Lactation
Birth to 6 months	0.27 mg*	0.27 mg*		
7–12 months	11 mg	11 mg		
1–3 years	7 mg	7 mg		
4–8 years	10 mg	10 mg		
9–13 years	8 mg	8 mg		
14-18 years	11 mg	15 mg	27 mg	10 mg
19–50 years	8 mg	18 mg	27 mg	9 mg
51+ years	8 mg	8 mg		

Table 1: Recommended Dietary Allowances (RDAs) for Iron

* Adequate Intake (AI)

With Velocities

The following growth velocity charts were created based on infants and children growing at the 50th %ile. For infants and children growing at the 50th %ile. For infants and children growing at higher or lower percentages, they may have different growth than this standard. Use http://www.peditools.org/ to determine the appropriate growth velocity for their pecentile.

C	Boys			Girls		
Gestational age (weeks)	Weight g/day	Weight g/week	Length cm/week	Weight g/day	Weight g/month	Length cm/week
23-24 weeks	11	80	1.4	10	69	1.3
24-25 weeks	13	90	1.4	13	88	1.3
25-26 weeks	14	100	1.4	14	98	1.0
26-27 weeks	16	111	1.4	15	107	1.4
27-28 weeks	18	126	1.4	17	119	1.4
28-29 weeks	21	144	1.4	19	135	1.4
29-30 weeks	24	165	1.4	22	154	1.4
30-31 weeks	27	189	1.4	25	177	1.4
31-32 weeks	30	212	1.4	28	199	1.4
32-33 weeks	33	228	1.4	31	216	1.4
33-34 weeks	34	236	1.3	33	229	1.3
34-35 weeks	34	238	1.3	34	237	1.3
35-36 weeks	33	233	1.2	34	239	1.2
36-37 weeks	32	221	1.1	33	234	1.1
37-38 weeks	30	209	1.0	31	215	1.0
38-39 weeks	29	205	1.0	27	190	1.0
39-40 weeks	30	207	0.9	25	176	0.9
40-41 weeks	31	217	0.9	26	181	0.9
41-42 weeks	33	229	0.9	27	192	0.8
42-43 weeks	34	237	0.9	29	200	0.8
43-44 weeks	34	240	0.9	29	205	0.8

Age (months)	Boys			Girls		
	Weight g/day	Weight g/month	Length cm/month	Weight g/day	Weight g/month	Length cm/month
0-1	37.4	1124	4.8	31.3	955	4.5
1-2	36.5	1096	3.7	33.7	940	3.3
2-3	27.1	808	3	23.9	717	2.7
3-4	20.5	626	2.5	19.2	577	2.2
4-5	16.9	508	2	15.8	474	1.9
5-6	14	423	1.7	13.3	398	1.7
6-7	11.9	363	1.5	11.5	345	1.5
7-8	10.5	318	1.4	10.3	306	1.4
8-9	9.5	286	1.3	9.1	276	1.3
9-10	8.6	263	1.3	8.4	254	1.3
10-11	8.1	247	1.2	7.8	239	1.2
11-12	7.8	235	1.2	7.7	228	1.2
12-24	6-7	208 and Girls growing at	1.1	6-7	210	1.0

DAY IN THE LIFE

- Varies depending on the day and clinic
- Open Clinic- Solo
- Growth & Nutrition- Team visits





QUESTION S???





