Feasibility of Implementing High-Impact Nutrition Standards in Family Child Care Homes

**CCFP Roundtable Conference** • October 24, 2017

Lorrene Ritchie, PhD, RD

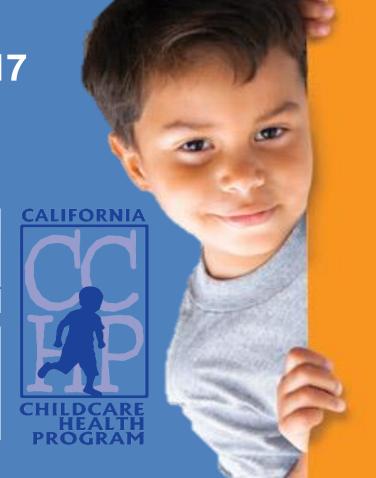


University of California

Agriculture and Natural Resources







#### **NUTRITION STANDARDS**

Developed by 2 panels of child care and nutrition experts

**2 CATEGORIES** 

What

How

**2 AGE GROUPS** 

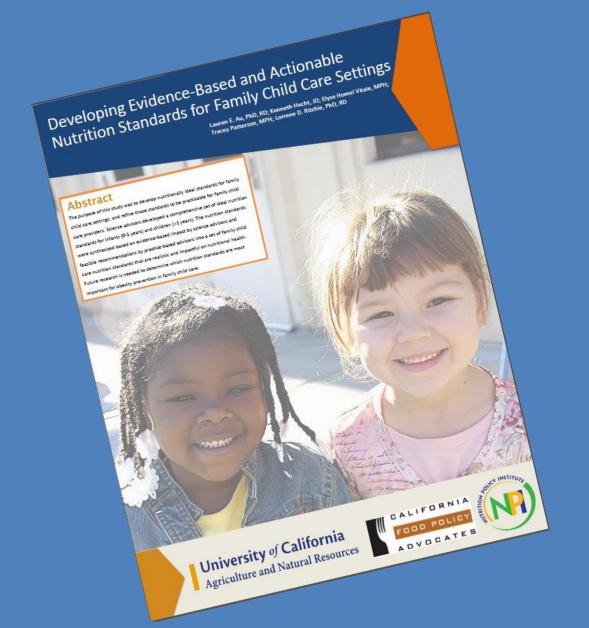
**Infants** 

Children

2 TIERS

**Impact** 

Ease





NPI.ucanr.edu

CFPA.net

#### **Timeline**

Recruitment

Baseline assessment

**Training** 

Follow-Up assessment





- **Self-paced materials**
- 2-hour in-person class
- Baseline compliance
- English & Spanish

#### Sample Characteristics (n=30)

Sites on CACFP 83%

Number of children (1-5 years) 7

**Provider race/ethnicity** 

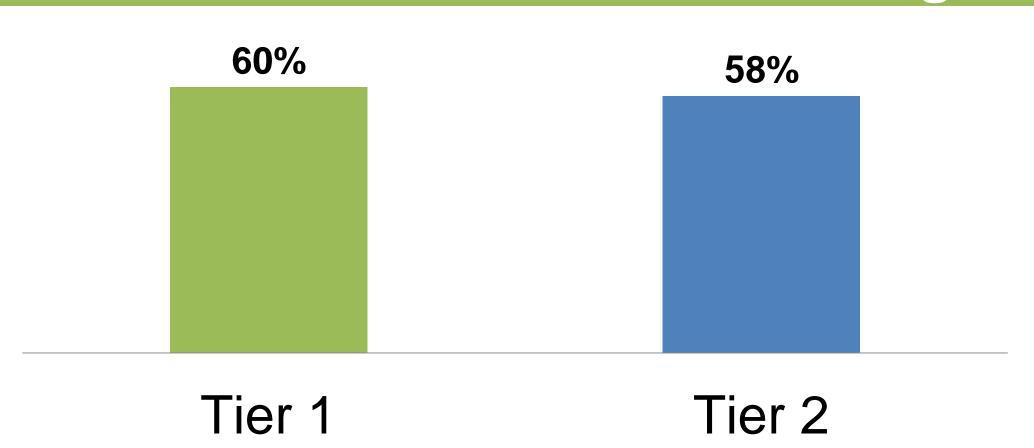
Hispanic 63%
Non-Hispanic White 27%
Non-Hispanic Black 7%
Non-Hispanic Asian 3%

**Provider education** 

<High school 10%
High school 20%
≥Some college 70%</pre>



# How did providers comply with nutrition standards BEFORE training?



# How did providers comply with nutrition standards BEFORE training?



Foods & Beverages Feeding Practices

## Which standards had the highest compliance?

# Baseline Compliance 75% or higher

### WHAT Served to Children 1 year or older

Standard	% Compliant
Dark green/orange/red/deep yellow vegetables ≥1 time per day	100%
No low calorie sweeteners or items containing diet sweeteners	93%
No salt added at the table	93%
No sugar-sweetened beverages <sup>1</sup>	83%
Yogurt ≤1 time per day, <23g sugar per 6oz	76%
For 12-24 month olds, unflavored whole milk ≥2 times per day	79%
No high salt foods	76%

### HOW Children 1 year or older Served

Standard	% Compliant
≥ 2 meals and 2 snacks for care ≥ 8 hours	100%
Allow enough time to eat <sup>1</sup>	100%
Do not use foods/beverages as reward/punishment or for comfort1	97%
When drink is provided at celebrations/fundraisers offer only healthy	96%
Provider models healthy eating and doesn't consume other items in front of children	87%
≥ 1 meal and 1 snack for care < 8 hours	82%

# How did providers comply AFTER training?

# How did providers comply AFTER training?



# How did providers comply AFTER training? for standards with <75% at baseline

#### Compliance Increased for WHAT Served

For children ≥24 months old, unflavored fat-free or 1% milk ≥2 times/day

Natural low /reduced-fat cheese ≤1-2 times/day; no cheese food/spread

Use only liquid non-tropical vegetable oils instead of solid fats

No foods high in added sugar<sup>1</sup>

No white grains or white grain-based desserts

No processed or deep/pre-fried meats/fish<sup>1</sup>

Rarely or never offer 100% fruit juice<sup>1</sup>

Standard	CHANGE
No more than one age-appropriate sized serving of 100% juice per day <sup>1</sup>	+7%
No deep-fried or pre-fried baked vegetables <sup>1</sup>	+10%
Yogurt < 1 time/day, <23g sugar per 6 oz	+13%
Fruit ≥2 times per day¹	+14%
Only fruit that is fresh, frozen, or canned in water (no added sugars) 1	+17%

+17%

+17%

+20%

+20%

+21%

+27%

+37%

#### Compliance Increased for HOW Served

Standard	CHANGE
Family-style meals/snacks; teach children to serve selves age-appropriate portion sizes with assistance as needed	+7%
Dishware/utensils sized appropriately <sup>1</sup>	+7%
Do not pressure to eat or clean plate; meal conversation not focused on amounts <sup>1</sup>	+10%
At least one provider sits with children and eats same meals and snacks	+10%
Meals/snacks every 2-3 hours at regularly scheduled times	+20%
Minimize distractions while eating	+27%
At celebrations or fundraisers offer only healthy items	+32%

#### Compliance Did Not Change or Decreased for Some

#### **Standard**

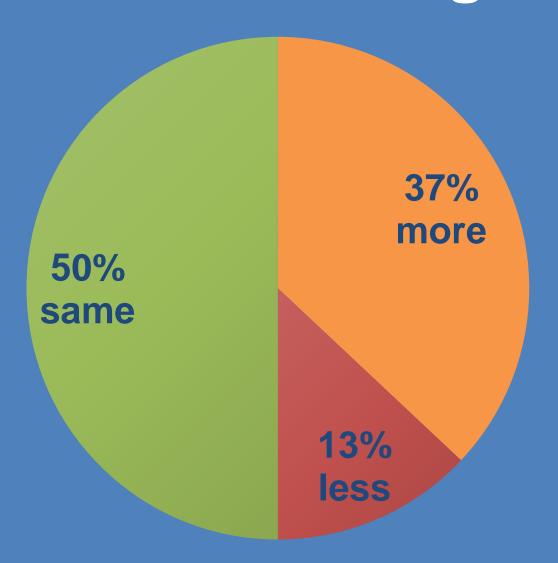
- Vegetables ≥ 2 times per day<sup>1</sup>
- Lean protein ≥ 2 times per day<sup>1</sup>
- Offer a variety of culturally-relevant items
- Ask children if full before remove plates and ask if hungry before serve seconds
- Self-serve water indoors/outdoors; actively offer with meals/snacks<sup>1</sup>
- Expect children to: eat a lot at some meals and very little at others, not to eat everything offered; change likes/dislikes; be messy; take months/years to accept new foods

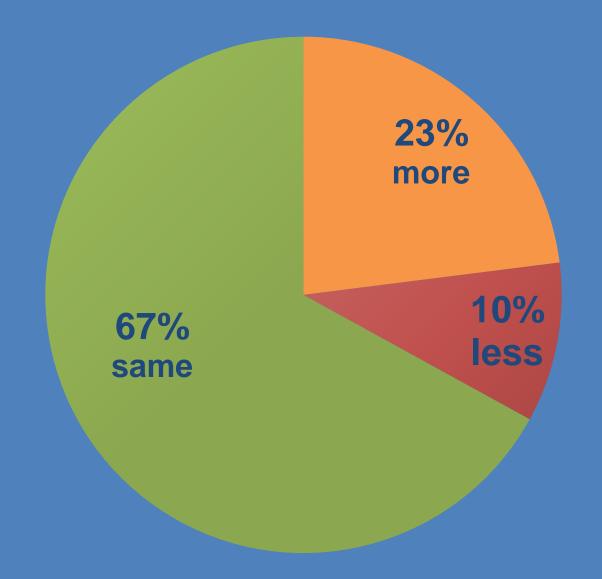
### What about COSTS?



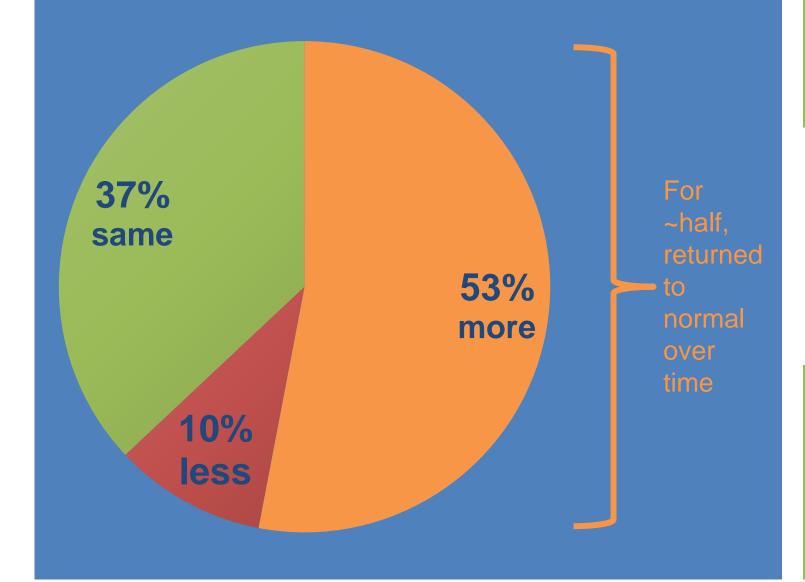
### Food & Beverages

### Food Prep Supplies





### **Provider Time**





#### **Lessons Learned**

- Providers highly satisfied with training
- "Easy" or "Hard" doesn't necessarily translate to whether providers already doing a standard
- Compliance high at baseline for one-third of standards
- Compliance increased after training for most standards
- More support needed for several standards
- Implementing standards is feasible for family child care homes



#### Acknowledgements

**Elyse Homel Vitale** 

**Melissa Cannon** 

**Abbey Alkon** 

Victoria Keeton

Klara Gurzo

**Gemma DiMatteo** 

**Osman Shokoor** 

**Phoebe Harpainter** 

**Christina Becker** 

**Ken Hecht** 









FIRST 5 Santa Clara County

Family Resource and Referral Center of San Joaquin FIRST 5 San Joaquin

YMCA of San Diego County International Rescue Committee Child Development Associates





Thanks for your attention!

For more information please contact: Iritchie@ucanr.edu