Feeding Difficulties & Mismanagement – “Our Family’s Perspective”

September 20, 2013
Lourdes Vizcarra, M.D.
Continuum of Care
Disclosures:

- “OUR” Family’s Perspective
- “GENERAL” Statements
- Most important letters after my name: Mamí
- Have NOT come across a question that I will not answer
- Can NOT promise that I will not get emotional
Learning Objectives:

• At the end of this presentation, the attendee will be able to:

  • Name 3 conditions for which the ICD-9 definition of “Feeding Difficulties & Mismanagement” applies to
  • Name 2 processes involved in feeding/eating
  • Name 4 possible consequences from having feeding difficulties & mismanagement
Outline:

• Define “Feeding Difficulties & Mismanagement”
  • ICD-9
  • What’s included/excluded

• Discuss complexity of “Feeding”
  • Volitional/Reflexive
  • Coordinate: Eating, Swallowing, Breathing
Outline:

• When feeding/eating is working/not working
  • Nutrition/Hydration
  • Complications

• Feeding & Social/Cultural Influences

• Sharing of Our family’s experience
Introductions:

• Lourdes Vizcarra, M.D.
  • Family & Community Medicine
  • M.A.M.Í

• Audience:
  • Individuals
  • Family Members
  • Case Managers
  • Direct Care Staff
  • Nurses
  • Others?
DEFINITION:

“Feeding Difficulties & Mismanagement”
Once again:

It’s all my fault!!!
ICD-9: Introduction

- ICD-9-CM Diagnosis Codes “ICD-9 Codes”
  - Used in medical billing to describe disease, injuries, symptoms and conditions

- Symptoms, Signs, and Ill-Defined Conditions (780-799)
  - Symptoms concerning nutrition metabolism and development (783)

- Mental Disorders: Special symptoms or syndromes not elsewhere classified (307.50-307.59)
Feeding Difficulties & Mismanagement¹:

- 2012 ICD-9 783.3
- Imbalance in the normal feeding habits of an infant
- Short description: Feeding Problem
- A billable medical code that can be used to specify a diagnosis on a reimbursement claim
ICD-9 783.3

Applies to: (ICD-10 R63.3 Feeding Difficulties)

- Oral Aversion (newborn)
- Feeding Difficulty (adult, child, elderly, infant)
- Feeding Disturbance (elderly, infant)
- Faulty Feeding (elderly, infant)
- Improper Feeding (elderly, Infant)
- Feeding Problem (elderly, infant)
- Feeding Mismanagement
- Feeding Problem (elderly, infant)
- Regulation Feeding (elderly, infant)
Excludes:

- Feeding disturbance or problems in newborn (779.31-799.34) (PERINATAL)
- Of non-organic origin (307.50-307.59) (MENTAL Disorders)
Feeding/Eating: What’s involved?²

- Complex Physiologic Process
- Social Influences
- Cultural Influences
Feeding/Eating: What’s involved?

- Feeding Development
  - Dependent:
    - Structural Integrity
    - Neurologic Maturation
- “Learned” Progression of behaviors
  - Sensory & Motor Development
  - Experience
Feeding/Eating: What’s involved?²

- Complex behaviors:
  - Volitional & Reflexive
  - > 30 nerves & muscles

- Food Passage (oral cavity to stomach)
  - Oral
  - Pharyngeal
  - Esophageal
Feeding/Eating: What’s involved?

- Airway Protection
- Coordination:
  - Eating
  - Swallowing &
  - Breathing
Feeding & Swallowing

• Swallowing Process: stages

• Oral (Preparatory, Propulsive)
  • Sucking
  • Chewing
  • Moving food/liquid into throat
Feeding & Swallowing

  - Pharyngeal
    - Starting the swallow
    - Squeezing food down the throat
    - Closing off airway
Swallowing Process: stages cont.

- Esophageal
  - Relaxing/Tightening openings Esophagus
  - Squeezing food through the Esophagus & into the stomach
Feeding/Eating: What’s involved?

When all is well:
- Hydration
- Nutrition
- Airway Protection

When it is NOT:
- Dehydration
- Malnutrition
- Airway Obstruction
- Aspiration
- Isolation/Embarrassment
Social & Cultural Influences:

Food

- Integral part of Human Life
- More Important than Sex
- Profound Social Urge
  - Shared/Together
  - Celebrations
Social & Cultural Influences:

- Profound Social Urge
  - Shared/Together
  - Celebrations/Ceremonies/Symbolic
  - MOST important thing a mother gives to a child
  - Symbol/Reality: LOVE & SECURITY
- All Cultures -> considerable lengths to obtain preferred foods
American Melting Pot:

- "food preferences of dozens of nations -> side by side....can't help....overlap and mixing"

- Kind of food/Preparation/Serving

- Way of eating food
Clinical Considerations:

• **Gastrointestinal Disease:**
  • *GERD*
  • *Constipation*
  • *GI Motility*

• **Pulmonary:**
  • *Chronic Micro-Aspiration*
  • *Recurrent Pneumonia*
  • *Chronic Ling Disease*
Clinical Considerations:

- **Neurologic**
  - Seizures
  - Spasticity
  - Gastroparesis
  - Dependent Feeders

- **Saliva Management**

- **Oral Hygiene:**
  - Plan, *NPO status* (changes in oral Flora)
Clinical Considerations:

- Positioning
  - Scoliosis
  - Postural Tone
  - Sleep

- Behavioral Challenges
  - Rumination
  - Food Seeking
  - PICA
Our Family:
Sebastian Iñigo:

Announcing the arrival of our new GREAT LOVE!

November 17, 2005

5 lbs 1 oz
18.5 inches

- 37 4/7 wks EGA
- Ballard 35 wks
- AMA
- PIH
- IUGR
Breastfeeding:

• Every baby: reflexes
• Physiological
• Emotional Bonding
Congenital Heart Disease:
1st Year of Life:

- Breastfeeding
  - Fortifying milk

- Specialists:
  - Cardiology
  - Cardiothoracic Surgeon
  - Genetics: negative
  - Ophthalmology: CVI
  - Neurology: Hypotonia, Subdural Hematomas

- Early Intervention
  *98 appts/visits
Open Heart Surgery:

June 7, 2006
2nd Year of Life:

- Breastfeeding: pump
- Boost Kid Essentials
- High Caloric intake
- Specialists:
  - Nutritionist
  - GI/General Surgeon
  - Feeding Nurse Specialists
  - Metabolic Geneticist
  - Orthotist: Helmet
Failure to Thrive (FTT): NGT

- Metabolic Geneticist
- “G-tube placement Appt”
- “Refused”
  - Nutritionist
  - Feeding Specialty Nurse
  - Infant Scale
  - Fortifying/High Caloric
Failure to Thrive (FTT): NGT

<table>
<thead>
<tr>
<th>Date</th>
<th>Tot. Calories</th>
<th>#PO Calories</th>
<th>#Solids</th>
<th>#oz JFK</th>
<th>#ozH2O</th>
<th>#ozOther</th>
<th>#ozNGT ON</th>
<th>Comments</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>05/07 T</td>
<td>629</td>
<td>334</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>3.7 Pedial</td>
<td>5.5 ped</td>
<td>NGT</td>
<td>+V</td>
</tr>
<tr>
<td>05/02 W</td>
<td>684</td>
<td>103</td>
<td>2</td>
<td>7.5</td>
<td>26</td>
<td>8 JFK</td>
<td>LGI</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>05/03 Th</td>
<td>919</td>
<td>30+</td>
<td>2</td>
<td>16.5</td>
<td>3.2</td>
<td>8 JFK</td>
<td>+V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/04 F</td>
<td>800</td>
<td>3</td>
<td>14.4</td>
<td>3</td>
<td>3.7 Pedial</td>
<td>5.5 ped</td>
<td>NGT</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>05/05 S</td>
<td>736</td>
<td>25+</td>
<td>2</td>
<td>11.6</td>
<td>3.2</td>
<td>8 JFK</td>
<td>+V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/06 S</td>
<td>676</td>
<td>71</td>
<td>3</td>
<td>14</td>
<td>3</td>
<td>8 JFK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/07 M</td>
<td>661</td>
<td>1</td>
<td>16.5</td>
<td>4Pr</td>
<td>1 Pedialyte</td>
<td>3.7 Pedialyte</td>
<td>NGT</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>05/08 T</td>
<td>655</td>
<td>0</td>
<td>9</td>
<td>3.5</td>
<td>3.5</td>
<td>3 Pedialyte</td>
<td>MRI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/09 W</td>
<td>834</td>
<td>70</td>
<td>3</td>
<td>14.1</td>
<td>3.5</td>
<td>8 JFK</td>
<td>+V P Pre</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/10 Th</td>
<td>869</td>
<td>50+</td>
<td>2</td>
<td>17.8</td>
<td>3</td>
<td>8 JFK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/11 F</td>
<td>676</td>
<td>105</td>
<td>2</td>
<td>13</td>
<td>2</td>
<td>8 JFK</td>
<td>+V P Pm</td>
<td>9.125 kg</td>
<td></td>
</tr>
<tr>
<td>05/12 S</td>
<td>672</td>
<td>25+</td>
<td>3</td>
<td>16</td>
<td>3.2</td>
<td>8 JFK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/13 S</td>
<td>681</td>
<td>60+</td>
<td>3</td>
<td>23.9</td>
<td>3</td>
<td>8 JFK</td>
<td>+V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/14 M</td>
<td>473</td>
<td>119</td>
<td>3</td>
<td>9.8</td>
<td>2.2</td>
<td>0 NGT</td>
<td><strong>Bolus ON</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/15 T</td>
<td>685</td>
<td>2</td>
<td>19.5</td>
<td>3.3</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/16 W</td>
<td>870</td>
<td>5</td>
<td>1</td>
<td>27</td>
<td>1.2</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/17 Th</td>
<td>863</td>
<td>2</td>
<td>24.7</td>
<td>2.3</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/18 F</td>
<td>714</td>
<td>30</td>
<td>1</td>
<td>21.1</td>
<td>2.3</td>
<td>0 TRIP</td>
<td>+V P Cereal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/19 S</td>
<td>791</td>
<td>0</td>
<td>0</td>
<td>24.7</td>
<td>1.3</td>
<td>0</td>
<td>+V P Pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/20 S</td>
<td>876</td>
<td>35</td>
<td>3</td>
<td>26</td>
<td>2</td>
<td>0</td>
<td>+V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/21 M</td>
<td>881</td>
<td>18</td>
<td>1</td>
<td>18.2</td>
<td>2.5</td>
<td>0 URI</td>
<td>+V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/22 T</td>
<td>537</td>
<td>30 (liquid)</td>
<td>11.1</td>
<td>3</td>
<td>2.7 ON attemp +F +V30m</td>
<td>20# 4oz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/23 W</td>
<td>239</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>4.8</td>
<td>4ap 4pr 3erf</td>
<td>0</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>05/24 Th</td>
<td>172</td>
<td>102 (liquid)</td>
<td>2</td>
<td>2</td>
<td>5.5</td>
<td>2ap 4erf</td>
<td>0 NGT</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>05/25 F</td>
<td>466</td>
<td>0</td>
<td>0</td>
<td>12.4</td>
<td>1</td>
<td>2ap</td>
<td>0 NGT</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>05/26 S</td>
<td>760</td>
<td>13</td>
<td>1</td>
<td>21.1</td>
<td>3.7</td>
<td>0</td>
<td>+V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/27 S</td>
<td>679</td>
<td>55</td>
<td>2</td>
<td>16.2</td>
<td>3.5</td>
<td>0 NGT</td>
<td>+V30m</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05/28 M</td>
<td>739</td>
<td>131</td>
<td>3</td>
<td>14.8</td>
<td>3.3</td>
<td>0</td>
<td>3 apple</td>
<td>0 NGT</td>
<td>+V</td>
</tr>
<tr>
<td>05/29 T</td>
<td>308</td>
<td>35.5</td>
<td>(liquid)</td>
<td>7.1</td>
<td>1</td>
<td>0 NGT</td>
<td>3.7 apple</td>
<td>0 NGT</td>
<td>+V</td>
</tr>
<tr>
<td>05/30 W</td>
<td>602</td>
<td>0</td>
<td>0</td>
<td>16.2</td>
<td>3.3</td>
<td>0 NGT</td>
<td>Ph Probe</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>05/31 Th</td>
<td>358</td>
<td>15</td>
<td>2</td>
<td>7.7</td>
<td>1.2</td>
<td>2ap 2.4 Pedial</td>
<td>0 NGT</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>06/01 F</td>
<td>688</td>
<td>0</td>
<td>0</td>
<td>16.3</td>
<td>3.2</td>
<td>4 pedial</td>
<td>0</td>
<td>+V</td>
<td></td>
</tr>
<tr>
<td>06/02 S</td>
<td>729</td>
<td>0</td>
<td>18.1</td>
<td>1.6</td>
<td>5 pedial</td>
<td>0 NGT</td>
<td>+V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>06/03 S</td>
<td>551</td>
<td>0</td>
<td>23.6</td>
<td>4</td>
<td>2 pedial</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
NGT:
Gastrostomy Tube:
Gastrostomy Tube:
Mmmmmmmmm!
Our Most Important Treasures!
Currently:

- **HC Providers:**
  - Pediatrician
  - Cardiologist
  - Neurologist
  - GI
  - Genetics
  - Audiologist
  - Orthopedist
  - Ophthalmologist
  - Pulmonologist (2012)
  - ENT (2013)
  - Nutritionist
  - Pharmacist
  - Therapists
Currently:

- Procedures:
  - Circumcision
  - Open Heart Surgery
  - NGTs
  - G-tube placements/changes
  - Blood Draws
  - Urine Testing
  - MRIs
  - EEGs
  - EKGs
  - Echos
  - X-rays
  - Swallow Studies
  - Bone Density

- Appointments:
  - By age 1 year: 98
  - 2012: 130
“The unexpected and the incredible belong in this world. Only then is life whole.
~Carl Jung
References:

1. ICD9Data.com
5. Fox, Robin, Food and Eating: An Anthropological Perspective. Social Issues Research Centre