# Becky Dorner & Associates, Inc.

## Webinar Course:

## The International Dysphagia Diet Standardisation Initiative: The WHO, WHY, WHAT & HOW

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This presentation was developed for food and nutrition professionals. It will be presented by a Speech-Language Pathologist who is board certified in swallowing and swallowing disorders and is an IDDSI champion. We will discuss the Who, Why, What, and How of the International Dysphagia Diet Standardisation Initiative (IDDSI) framework and descriptors to build **awareness**, assist in our **preparation**, and guide us along the way to eventual **adoption** of the IDDSI standards.

Since 2013, IDDSI, which is a multidisciplinary-international group of

researchers and clinicians, has been working to increase patient safety through the development of international dysphagia diet standards with:

HORMEL

**HEALTH LABS** 

- a common terminology for all diet and liquid consistencies (from regular textures to texture modified foods and from thin liquids to thickened liquids)
- across all ages,
- all care settings, and
- all cultures.

This presentation will explain how the IDDSI standards were developed, what the specific descriptors and testing methods are, and how the IDDSI framework maps to our prior standards (e.g., the National Dysphagia Diet). Implementation strategies and resources will be shared. Question and answer session will be guided by a registered dietitian nutritionist (RDN).

#### **Course Objectives:**

After completing this continuing education course, participants will be able to:

- 1. Advocate for the International Dysphagia Diet Standardisation Initiative (IDDSI), by understanding IDDSI and why there is a global effort to standardize diets for people who have difficulty swallowing (dysphagia).
- 2. Classify foods and liquids according to the IDDSI Framework and Descriptors.
- 3. Demonstrate effective testing and analysis of foods and liquids, according to the IDDSI Framework Testing Methods.
- 4. Create individual and facility "to-do" lists in order to further the understanding of & connection to IDDSI.
- 5. Gain resources to create a plan to move from IDDSI awareness, to preparation and eventually to adoption.

## Audience:

Registered Dietitians (RD), Registered Dietitian Nutritionists (RDN), Dietetic Technicians Registered (DTR), Nutrition and Dietetic Technicians Registered (NDTR) and members of the interdisciplinary team

Course CPE Hours: 1.5	CDR Level: 2
Suggested CDR Learning Needs Codes:	Suggested CDR Performance Indicators:
3050, 5210, 8010, 9050	6.2.4, 8.3.1, 8.3.6, 13.2.2





Speaker: Karen Sheffler, MS, CCC-SLP, BCS-S, has over 20 years of experience as a medical speech-



language pathologist, specializing in dysphagia since 1995, when she graduated from the University of Wisconsin-Madison. She obtained her Board Certification as a Swallowing Specialist (BCS-S) in 2012. In 2014, she started SwallowStudy.com, which is a dysphagia resource for patients and professionals. Karen has worked in acute care, rehabilitation centers, skilled nursing facilities, and in home health care. She currently works at two different hospitals in the Boston area, owns her own dysphagia consulting business, performs peer reviews and presentations, and provides dysphagia expert services to companies and law firms. Believing in constant continuing education, she has been awarded the ASHA Award for Continuing Education 5 times. She is a member of ASHA's Special Interest Group 13, the National Foundation of Swallowing Disorders (NFOSD), and the Dysphagia Research Society (where she is a

member of the Website, Communications and Public Relations Committee).

Disclosures: Karen Sheffler, MS, CCC-SLP, BCS-S and Becky Dorner, RDN, LD, FAND disclose that they are consultants to Hormel Health Labs.

## **Questions about the Continuing Professional Education Program?**

Please contact Becky Dorner & Associates, Inc. at info@beckydorner.com or 1-800-342-0285.



www.beckydorner.com



## **Today's Webinar**



- Audio and Webinar
- Please refer to handout for instructions.

#### Handouts

Emailed to the person who registered for the program.

#### Questions

Use GoToMeeting to ask questions.

#### The program will last approximately 90 min.

#### **Credit Hours:**

 Please refer to your handouts for detailed information on about credit hours.

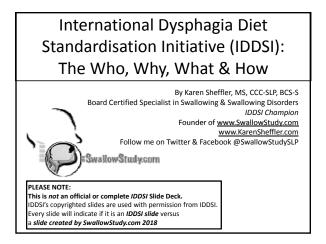


- Disclosures
   Dysphagia consultant for Hormel Health Labs
   Member of Advisory
- Board for Hormel Health Labs • Volunteered as IDDSI
- Champion since 2014

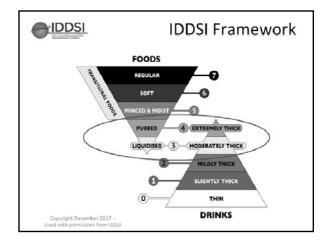
#### Karen Sheffler, MS, CCC-SLP, BCS-S

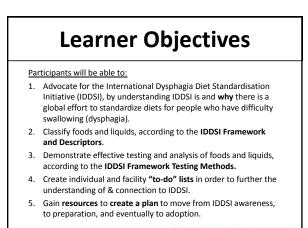
#### Presenter

Karen has over 20 years of experience as a medical speechlanguage pathologits, specializing in dysphagia since 1995, when she graduated from the University of Wisconsin-Madison. She obtained her Board Certification as a Swallowing Specialist (BCS-5) in 2012. In 2014, she started Swallowing Specialist (BCS-5) in 2012. In 2014, she started Swallowing concenters, skilled nursing facilities, and in home health care. She currently works at two different hospitals in the Boston area, owns her own dysphagia consulting business, performs peer reviews and presentations, and provides dysphagia expert services to companies and law firms. Believing in constant continuing education, she has been awarded the ASHA Award for Continuing Education 5 times. She is a member of ASHA'S Special Interest Group 13, and the Dysphagia Research Society (where she is a member of the Website, Communications and Public Relations Committee)\_,

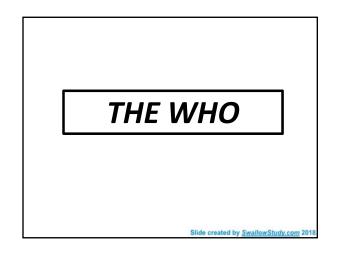








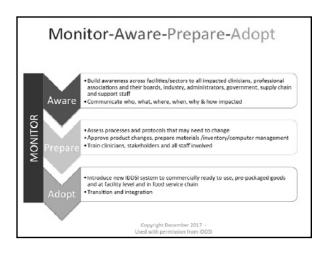
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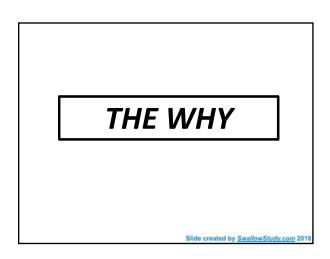




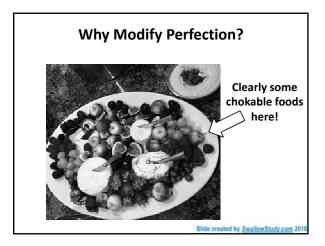








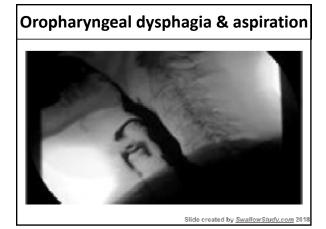


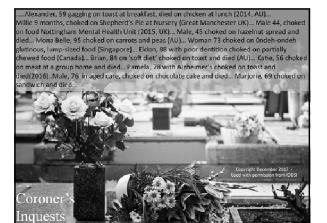


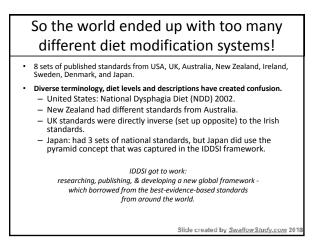
#### But what does a Regular Diet (Level 7) require?

- Adequate Cognition: Is there lethargy/sedation, poor attention to Adequate Structure: Teeth/dentures? Can they chew with their gums? Pain? Dry? Tumor, missing anatomy, scar tissue, fibrotic/stiff, edema?
- Coordination: Can they coordinate of breathing & swallowing?
- Adequate Physiology or function:
- Timing: Are they slow to process the food in the mouth? Slow to trigger the swallow? Slow airway closure? Slow esophageal empty?
- Motility: Weakness in lips, tongue, cheeks, jaw, palate can all lead to poor food/liquid processing in mouth. Weakness in back of tongue and throat squeezing muscles can prevent food/liquid from clearing through the throat safely & efficiently. Could lead to food/liquid dropping into airway OR food/liquid remaining stuck in the mouth, throat, and/or esophagus.
- Sensory: You need to feel the food/liquid to start a good swallow, AND to know if food/liquid enters the airway or gets stuck. Poor sensory input can give poor motor output.

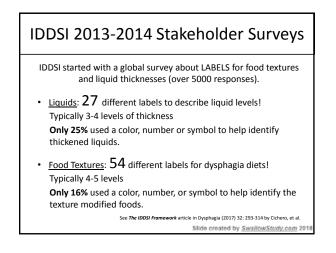
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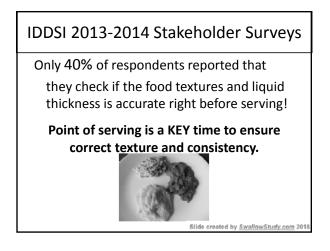












#### Why do we need a standardised system?

#### Safety

- Multiple labels and definitions cause confusion
- Within and between institutions

   Individuals with swallowing difficulties
   Family/Care providers
   Health care professionals
   Food services

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#### Why do we need a standardised system?

#### **Clinical efficiency**

- Avoids re-assessment to determine safe liquid and diet levels
- Reduces need to confirm and clarify clinical information.

#### Why do we need a standardised system?

#### **Commercial implications**

 So that 'ready to use/off-the-shelf' items are consistent from manufacturer/supplier to manufacturer/supplier and, similar to those produced in hospitals/care facilities/at home

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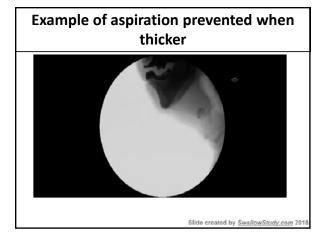


## Summary of Systematic Review (2015)

- There is evidence that: 4
  - Thickening liquids does help those who aspirate thin liquids. Moves slower & allows time for the person to react if swallow is delayed. Thin liquids can be fast and unpredictable.
  - However, there is such a thing as "too thick," where residue begins to accumulate in your throat.
  - Solid foods and thicker consistencies require more oral processing & greater effort to swallow.

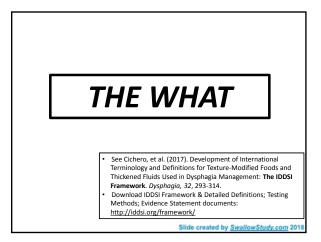
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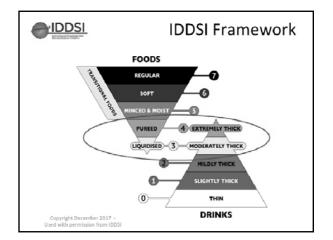
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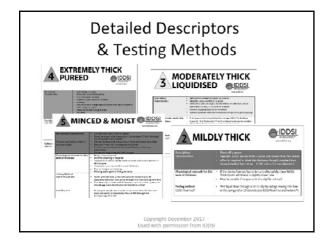


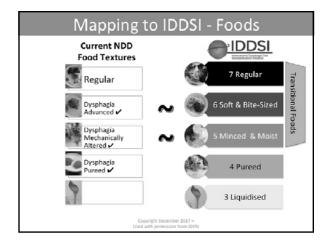
## Summary of Systematic Review (2015)

- •Very little evidence for: 🕃
  - •Specific rheological values to define thickness boundaries
  - Specifics on types of modified foods that should be used for management of dysphagia.









# Soft & Bite-Sized – Level 6

- Soft, tender & moist throughout. No separate thin liquid.
- Chewing is required. Biting is NOT required.
- Bite-Sized pieces, with particle size of:
  - Adults: 1.5cm squared (15mm or 0.6 inches or size of adult thumbnail)
     Pediatric: 8mm (0.3 inches or child's pinky nail)
- Sizes measured to diameter of trachea/prevent choking
- Can be eaten with fork, spoon, chopsticks, fingers.
- Knife not needed, as food pre-cut to bite sizes
- Tongue force & control are required to move food for chewing, keep in mouth for chewing, & to move food back for the swallow.
- Food squashes with "fork pressure test." Changes shape & does not return to original shape when fork lifted.

Slide created by SwallowStudy.com 2018

# Minced & Moist – Level 5 Soft & Moist with no separate liquid Small visible lumps, with particle sizes of Adult: 4mm lump size Pediatric: 2mm lump size This is the size of food after it is chewed; "ready to swallow" Lumps are easy to squash with tongue Minimal chewing required. Biting is NOT required. Can be eaten with a fork or spoon Could be eaten with chopsticks, if good hand control Can be scooped and shaped (e.g., into a ball) on a plate Again, see Framework & Descriptors document

for some food examples for each diet & Food Texture Requirements. Slide created by <u>SwallowStudy.com</u> 201

## Puree & Extremely Thick Liquid Level 4

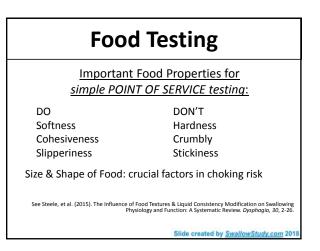
- Usually eaten with a spoon, but a fork is possible
- Cannot be drunk from a cup
- · Cannot be sucked through a straw
- Does NOT require chewing
- Can be piped, layered or molded
- Shows some very slow movement under gravity, but cannot be poured
- Falls off spoon in a single spoonful WHEN TILTED
- Continues to hold shape on plate
- NO lumps -> smooth
- NOT sticky -> moist
   <u>https://youtu.be/ElltIGY3ndo</u>

Liquid must not separate from solid
 Silde created by <u>SwallowStudy.com</u> 2018

# 'Transitional foods'

- Start as one texture (e.g. solid) and change to another when moisture is applied (saliva, water) or temperature (heat) change occurs
- Minimal chewing required
- Tongue pressure may be sufficient to break food down after alteration in moisture or temperature
- · Developmental teaching or rehabilitation of chewing skills





# 1. Spoon Tilt Test

USED TO MEASURE LEVELS 4 AND 5 (PUREE AND MINCED & MOIST)

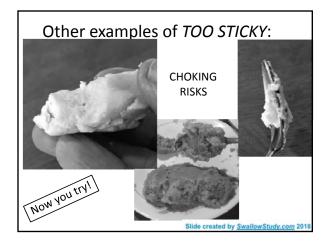
- How sticky or adhesive is the sample?
- How well does the food hold together (cohesiveness)?

THE FOOD SAMPLE SHOULD:

- Be cohesive enough to hold its shape on the spoon, but not sticky.
- Be slippery enough so that the full spoonful slides/pours off the spoon when the spoon is tilted sideways (or shaken lightly).
- Very little food left on the spoon.
- A scoop mound may spread or slump over only slightly on a plate.

Slide created by SwallowStudy.com 2018



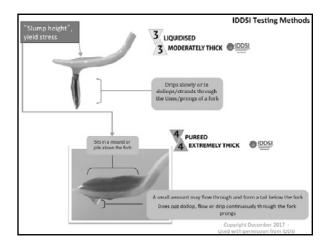


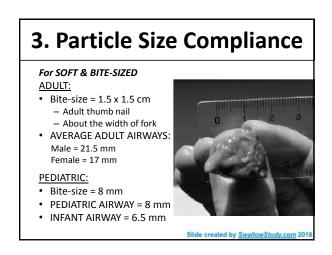
# 2. Fork Drip Test

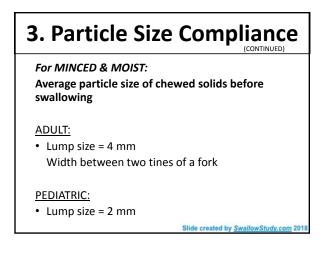
- Test for Levels 3 & 4: thick drinks (moderately & extremely thick) and smooth foods (liquidized & puree).
- Do they flow through the slots/tines of a fork.
  - Level 3 Liquidized/Moderately Thick
     Drips slowly or in strands/dollops through the tines of a fork
  - Level 4 Puree/Extremely Thick
     Sits in a mound or pile on top of the fork
     Only a small amount may flow through & form a tail below fork tines

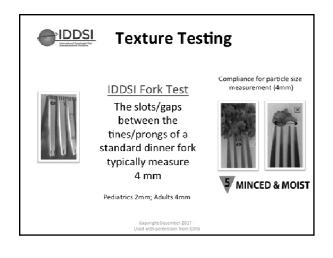
Does not flow or drip continuously through the fork tines

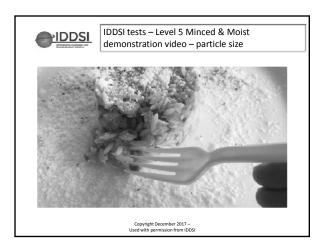
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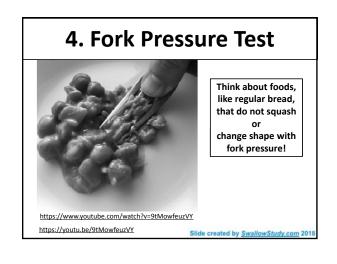












## IDDSI Texture Testing

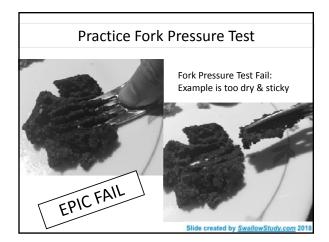
#### IDDSI Fork Pressure Test:

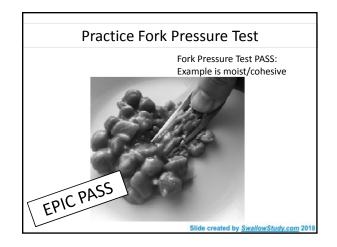
- A fork can be applied to the food sample to observe its behavior when pressure is applied.
- Pressure applied to the food sample has been quantified by assessment of the pressure needed to make the thumb nail blanch noticeably to white.



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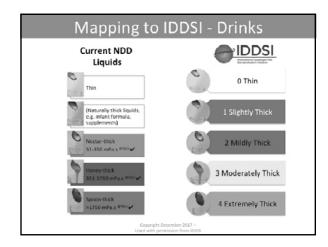


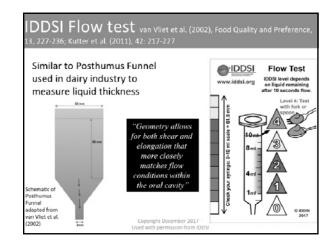


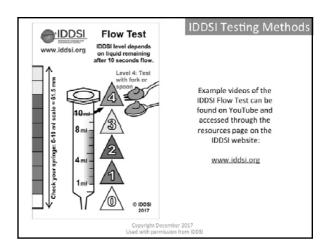


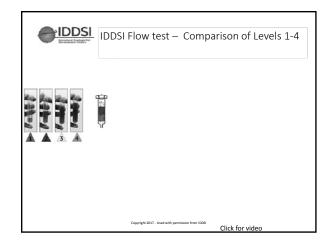


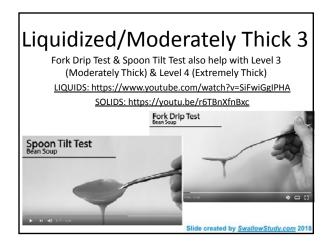


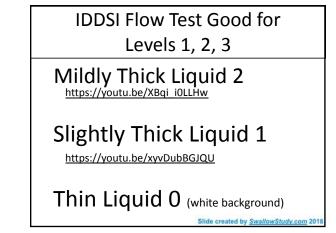






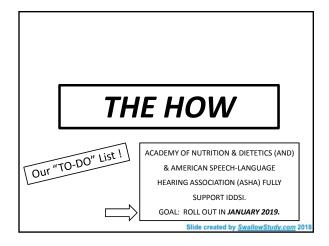








Name of Liquid	Warm/ Cold	Syringe Type*	Trial 1 ml	Trial 2 ml	Trial 3 ml	Avg ml	Results (Thin, Slighty, Mildly, Moderanily, Extremely)	Comment (? borderline, ? too-thick or too to

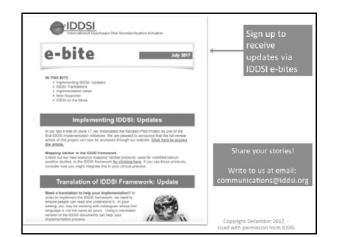


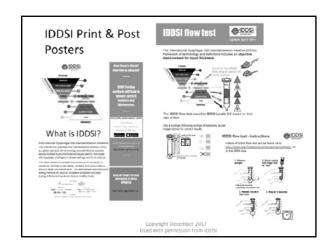


# Find "Champions" in Your Facility The Registered Dietitian & Speech-Language Pathologist can start raising awareness & building a task force/team. Team up with food service & nursing. At our hospital, our chef became a chief advocate. Review every item on the menu, using detailed descriptors and all testing methods. You may need to delete items, change items, and add new recipes.

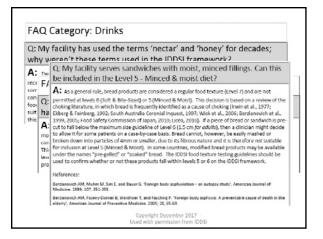
• Consider sharing your ideas/recipes on IDDSI.org!











# Risk management during transition to IDDSI

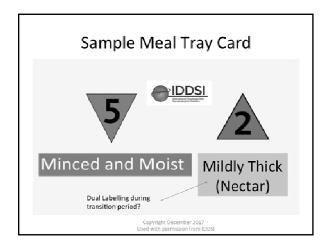
Time frame to change labels

- · Industry change to IDDSI labels is voluntary
- For other label change initiatives, including those legislated, a two year time frame is most common
- A change over period is to be expected

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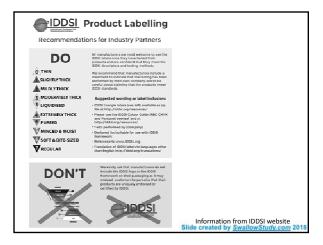


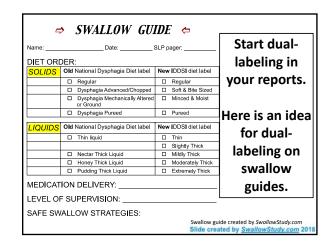
Must use same colors in all products and labels					
RGB (for computer applications - web)	CMYK (for print applications)	Pantone	IDDSI number and colour in words		
R:0 G:0 B:0	C:75% M:68% Y:67% K:90%	PANTONE P Process Black	7 Black		
R:0 G:51 B:255	C:86% M:73% Y:0% K:0%	PANTONE P 102-8 C	6 Blue		
R:255 G:102 B:0	C:0% M:74% Y:100% K:0%	PANTONE P 34-8 C	5 Orange		
R:51 G:204 B:51	C:70% M:0% Y:100% K:0%	PANTONE P 151-8 C	4 Green		
R:255 G:255 B:0	C:6% M:0% Y:97% K:0%	PANTONE P Process Yellow C	3 Yellow		
R:255 G:0 B:255	C:0% M:93% Y:0% K:0%	PANTONE P Process Magenta C	2 Pink		
R:102 G:102 B:102	C:60% M:51% Y:51% K:20%	PANTONE P 169-11C	1 Grey		
R:255 G:255 B:255	C:0% M:0% Y:0% K:0%	White	0 White		

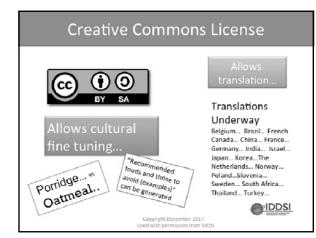


Example of Audit Sheets (WWW.IDDSI.ORG)							
Testing intended for Product or fload floated	MINCED & MOI	ST			<u>DDSI</u>		
Heating method(s)							
Temperature when tested:	rperature when tested: 🛛 at time of service 🔅 15 mins after serving				30 mins after serving		
	minic a' cheved bolus' must be equal to nd no longer than 8mm length (pediatrics). silteria for any row marked +.		-	Veets criteria:	at 30 mins		
Critical: Accearance				after serving	after serving		
* Lumps less than or equal to 4m	n (adults); 2mm (pediatrics)		THE NO	Tes No	Tes IN0		
* No separate thin liquid			□ Yes □No	□Yes □No	□ Yes □No		
Critical: Fork Pressure Test (meta	al dinner fork needed)						
Food can be easily mashed with [pressure should not make thun	little pressure from a dinner fork Is nail blanch to white]		□ Yes □No	□ Yes □No	□ Yes □No		
* Easily separates and comes thro	□ Yes □No	□ Yes □No	□ Yes. □No				
Critical: Spoon Tilt Test (teaspoor	n needed)						
* Holds shape on teaspoon			□ Yes □No	□ Yes □No	□ Yes □No		
	food left on teaspoon (i.e. not sticky)		□ Yes □No	□Yes □No	□ Yes: □No		
May spread or slump slowly on	a flat plate		□ Yes □No	□ Yes □No	□ Yes □No		
			rmation from				

7 Regular	RG7	
6 Soft & Bite-Sized	SB6	
5 Minced & Moist	(MM5)	
4 Pureed	PU4	Abbreviations suitable
4 Extremely Thick	EX4	for use with
3 Liquidised	LQ3	Foodservice Computer Software
3 Moderately Thick	(M03)	
2 Mildly Thick	(MT2	
1 Slightly Thick	ST1	
0 Thin	TNO	Information from IDDSI website Slide created by <u>SwallowStudy.com</u> 2018









#### References

## IDDSI Documents from IDDSI.org (more references in these documents):

- Complete IDDSI Framework Detailed Definitions: <u>http://iddsi.org/Documents/IDDSIFramework-</u> <u>CompleteFramework.pdf</u>
- IDDSI Framework Testing Methods: <u>http://iddsi.org/Documents/IDDSIFramework-</u> TestingMethods.pdf
- IDDSI Framework Evidence Statement: http://iddsi.org/Documents/IDDSIFramework-EvidenceStatement.pdf
- IDDSI Framework Translations: <u>http://iddsi.org/translations/</u>
- Please see the IDDSI.org Resources page for more tools: <u>http://iddsi.org/resources/</u>

#### References

#### IDDSI Publications:

Cichero, J.A.Y., Steele, C., Duivestein, J., et al. (2013). The Need for International Terminology and Definitions for Texture-Modified Foods and Thickened Liquids Used in Dysphagia Management: Foundations of a Global Initiative. *Current Physical Metholinitation Reports*, 1(4), 280-291. https://doi.org/10.1007/s40141-013-0024-z

Steele, C.M., Alsanei, W.A., Ayanikalath, S., et al. (2015). The Influence of Food Texture and Liquid Consistency Modification on Swallowing Physiology and Function: A Systematic Review. *Dysphagin, 30*(1), 2-26. <u>https://doi.org/10.1007/s00455-014-9578-x</u>

Cichero, J.A.Y., Lam, P., Steele, C.M., et al. (2017). Development of International Terminology and Definitions for Texture-Modified Foods and Thickened Fluids Used in Dysphagia Management: The IDDSI Framework. *Dysphagia*, 32(2), 293-314. <u>https://doi.org/10.1007/s00455-016-9758-y</u>

## References

Lam, P., Stanschus, S., Zaman, R. & Cichero, J.A.Y. (2017). The International Dysphagia Diet Standardisation Initiative (IDDSI) framework: The Kempen Pilot. *BJNN/Stroke* Association Supplement, 13(2), S18-S26. <u>http://iddsi.org/wpcontent/uploads/2017/08/bjnn.2017.13.sup2\_s18.pdf</u>

Steele, C.M., Namasivayam-MacDonald, A.M., Guida, B.T., Cichero, J.A.Y., Duivestein, J., Hanson, B., Lam, P. & Riquelme, L.F. (2018). Creation and Initial Validation of the International Dysphagia Diel Standardisation Initiative Functional Die Koale, Archives of Physical Medicine and Rehabilitation, doi: 10.1016/j.apmr.2018.01.012

#### References noted on IDDSI Flow Test slide:

van Vliet, T. (2002). On the relation between texture perception and fundamental mechanical parameters for liquids and time dependent solids. *Food Quality and Preference*, *13*(4), 227-236. <u>https://doi.org/10.1016/S0950-3293(01)00044-1</u>

Kutter, A., Singh, J.P., Rauh, C. & Delgado, A. (2011). Improvement of the prediction of mouthfeel attributes of liquid foods by a posthumus funnel. *Journal of Texture Studies*, 41, 217-227.

## References

#### **References noted on Transitional Foods slide:**

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