### **Panel Discussion**

# "Towards a multidisciplinary and integrated curriculum in health care education"

# **IAMSE Sponsored Session**

Friday June 17, 2022

International Association of Medical Science Educators



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# **About IAMSE**

IAMSE is an international organization with a focus on advancing medical science education through <u>faculty development</u>.

- > 2000 members worldwide
- Annual meeting
- Webinar series
- Publications (Journal, IAMSE Manuals)
- Travel Grant program
- Research Grant program

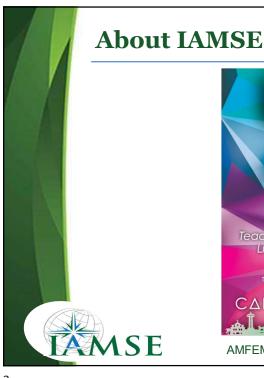
Train you to become a better educator

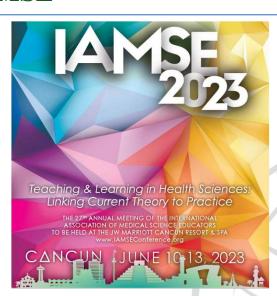






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# Introducing the panelists



- Silvia Lizett Olivares Olivares, Tecnológico de Monterrey, Mexico
- Neil Osheroff, Vanderbilt University School of Medicine, USA
- Belinda del Carmen Carrión Chavarría, Tecnológico de Monterrey, Mexico
- Peter G.M. de Jong, Leiden University Medical Center, Netherlands (moderator)



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# **Session Layout**

3 short presentations:

- Silvia Lizett Olivares Olivares: Curriculum Reform
- Neil Osheroff: Session-Level Integration of Foundational and Clinical Sciences
- Belinda del Carmen Carrión Chavarría: Clinical Reasoning

Questions from the audience



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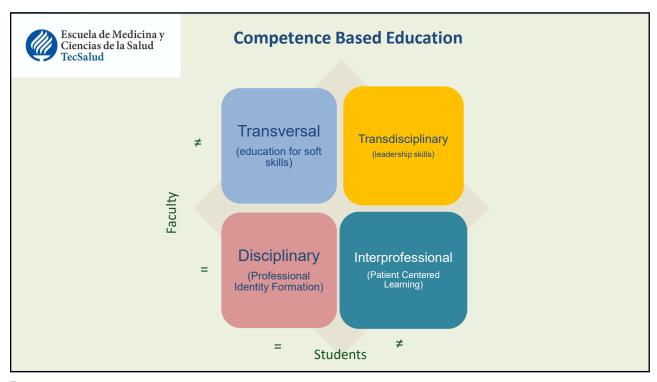
# When I hear "multidisciplinary and integrated teaching", I think of:

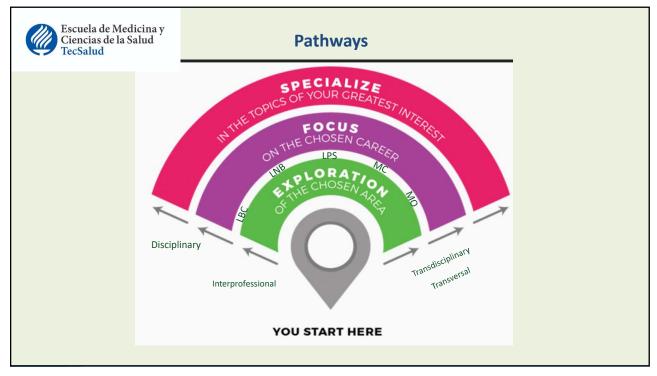
# **Curriculum Reform**

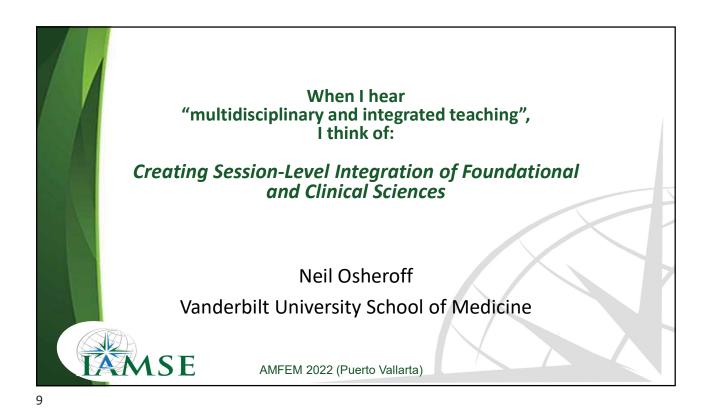
Silvia Lizett Olivares Olivares Tecnológico de Monterrey

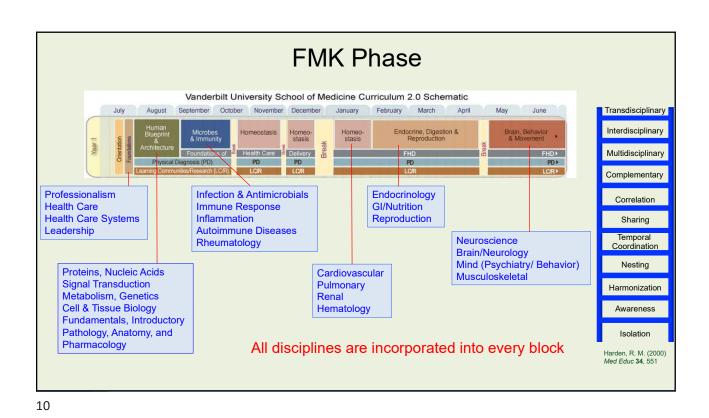


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# Session-Level (Cognitive) Integration

Creation of semantic networks in the mind of the learner

Nodes = clinical features Connectors = foundational science mechanisms

"Studies of memory and categorization have shown us that cognitive integration of basic and clinical sciences can be incredibly valuable in helping students organize, retain, and apply knowledge in order to solve clinical problems..." N. N. Woods 2021

## Use of Active Learning





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# Case-Based Learning

- Learner-centered, active learning format that simulates clinical practice in a safe setting
- Scaffold "deep" medical science knowledge in a clinical context
- Begin to develop clinical reasoning skills
- Develop self-regulated learning skills
- Foster teamwork, communication, and leadership skills
- Foster intrinsic motivation to drive learning





CBL sessions help to ease the transition into the clinical phases.

# When I hear "multidisciplinary and integrated teaching", I think of:

# Clinical Reasoning

Belinda del Carmen Carrión Chavarría Tecnológico de Monterrey

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# REASON CONSTRUCT DECISION-MAKING NOVICE BASIC SCIENCES PROVIDE: Knowledge of prevalence upon gender, age and location Understand basis of disarray that originates the symptom Lisk K, Agur AM, Woods NN. Exploring cognitive integration of basic science and its effect on diagnostic reasoning in novices. Perspect Med Educ. 2016 Jun.5(3):147-53. doi: 10.1007/s40037-016-0268-2. PMID. 27246965, PM.OD. PM.C4908035.

- Train diagnostic accuracy based on justification of:
- Explain the reason of differential diagnosis
- Explain what additional information is needed to confirm diagnosis
- Propose initial management



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# Discussion with the audience

What do YOU think of when you hear

"multidisciplinary and integrated teaching"?



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