NTNU Link

- A decentralized longitudinal integrated clerkship

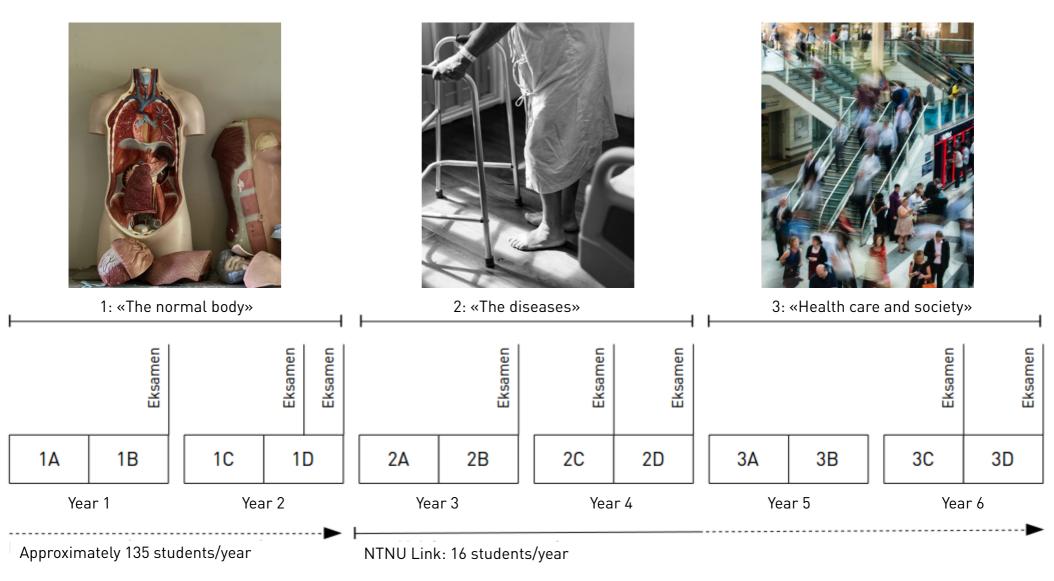




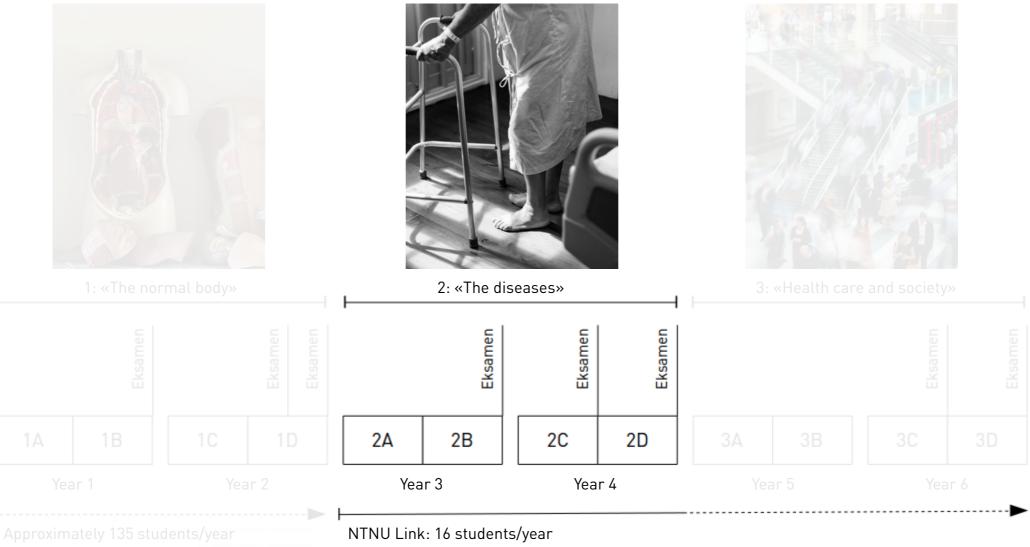
Staup helsehus

ECTS, May 6, 2021

Studying Medicine at NTNU:



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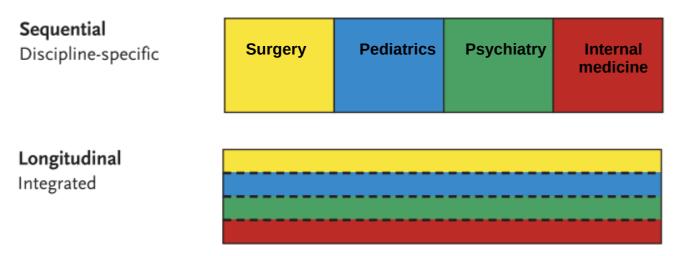




- decentralized: combined local hospitals and community health care services
- continuity: care, curriculum and supervison
- student active learning: team-based learning, problem-based learning, simulation

Longitudinal Integrated Clerkship (LIC)

= Langsgående INtegrert Klinisk tjeneste (LINK)

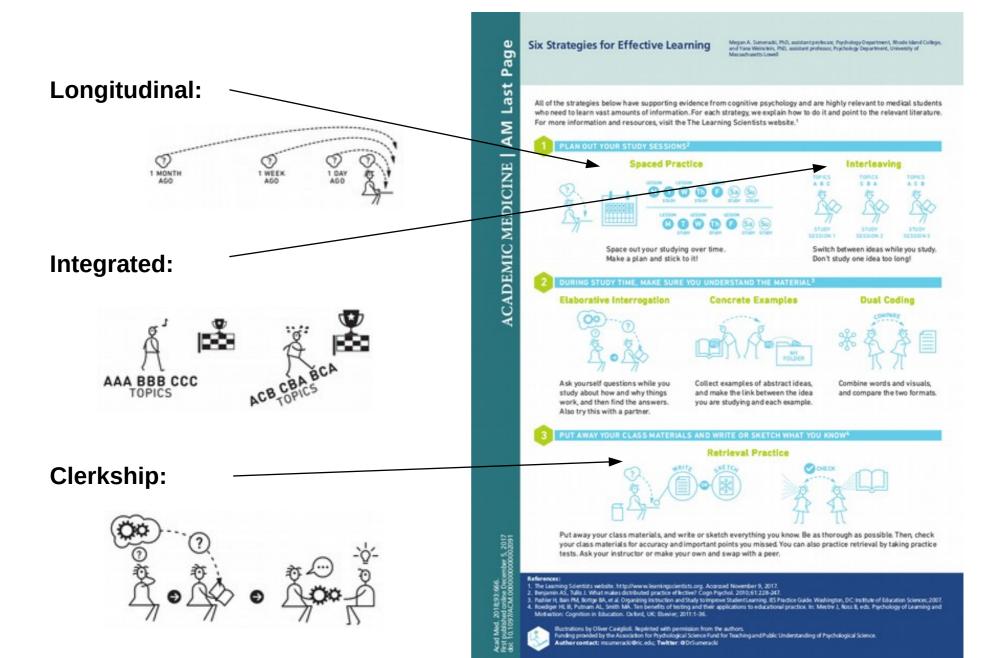


Adapted from NEJM: Hirsh, D.A., Ogur, B., George E. Thibault, G.E., Cox, M. (2010). "Continuity" as an Organizing Principle for Clinical Education Reform.

Common core elements of LICs:

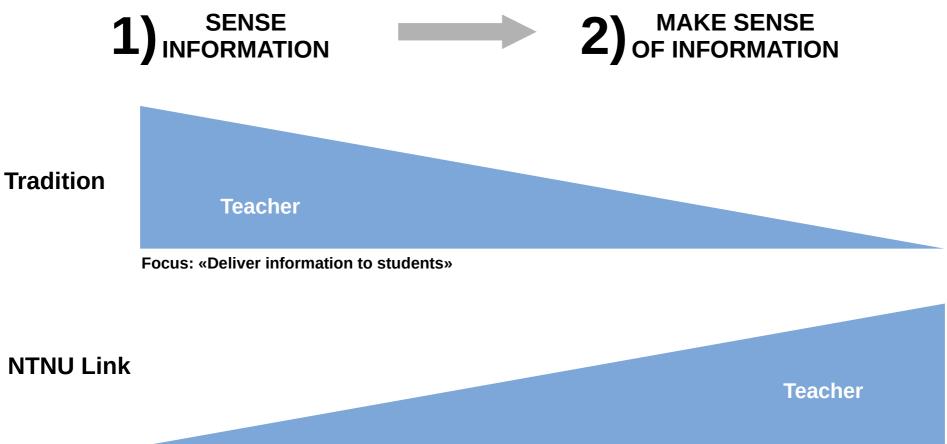
- students participate in the comprehensive care of patients over time
- students have continuing learning relationships with these patient's clinicians
- students meet, through these experiences, the majority of the year's core clinical competencies across multiple disciplines simultaneously.

Longitudinal Integrated Clerkship (LIC)



The teacher's role





Focus: «Assessing what information/knowledge students have acquired»

































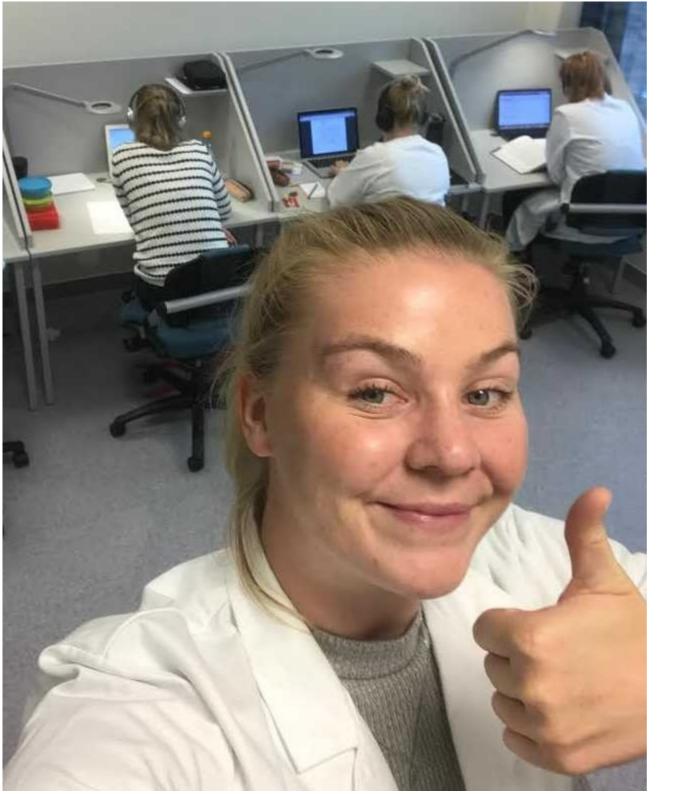
















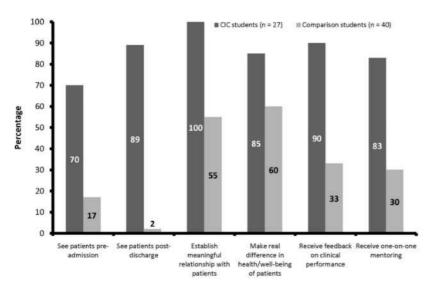


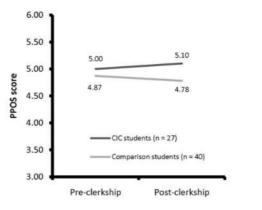
Longitudinal integrated clerkship (LIC)

Langsgående integrert klinisk tjeneste (LINK)

Hirsh et al (2012). Educational outcomes of the Harvard Medical School-Cambridge integrated clerkship: a way forward for medical education. Academic Medicine, 87(5), 643-650.

| Students' descriptions of clerkship | 27 CIC students | 40 comparison students | P value |
|---|--------------------|---------------------------|---------|
| Satisfying | 5.41 | 4.67 | <.005 |
| Confidence building | 4.96 | 3.87 | <.005 |
| Rewarding | 5.78 | 4.77 | <.001 |
| Humanizing | 5.44 | 3.88 | <.001 |
| Transformational | 5.44 | 4.62 | <.01 |
| Boring | 1.44 | 1.90 | <.05 |
| Marginalizing | 1.89 | 3.43 | <.001 |
| Hectic | 5.37 | 4.65 | <.005 |
| Stressful | 5.26 | 4.62 | <.005 |
| Frustrating | 3.63 | 3.75 | .709 |





| Assessment measure | 27 CIC students | 45 comparison students | |
|---|--------------------|---------------------------|------|
| National Board of Medical Examiners subject exams* | | | |
| Obstetrics-gynecology | 73.70 | 71,73 | .377 |
| Pediatrics | 80.62 | 74.79 | <.01 |
| Surgery | 76.85 | 73.33 | .099 |
| Psychiatry | 80.22 | 71.86 | <.05 |
| Harvard Medical School Comprehensive Objective Structured Clinical Exam [†] | 68.13 | 64.34 | <.05 |
| National Board of Medical Examiners Step II Clinical Knowledge Exam* | 240.63 | 234.14 | .232 |

«Competent physicians with a lifelong commitment to pursuing excellence»





- High level of student involvement and activity (effective learning)
- Integration of theory and practice (conseptual understanding of clinical competence)
- Meaningful relations to patients (professional development)
- Longitudinal relations to teachers (continuous support and challenge)



More about NTNU Link:

Blog | https://www.ntnu.no/blogger/link/

Instagram | https://www.instagram.com/ntnu_link/