Presentation of Norwegian National Advisory Unit on Advanced Laparoscopic Surgery (NSALK)
The Advisory Unit is located at Trondheim University Hospital, St. Olavs Hospital, Norway.
Organogram

Ministry of Health and Care Services

Clinic of Surgery, St. Olavs Hospital, Trondheim University Hospital

Norwegian National Advisory Unit on Advanced Laparoscopic Surgery (NSALK)

Steering group

Reference group

Partners: NTNU (university), Faculty of Medicine, SINTEF, Operation Room for the Future, Norwegian Medical Association, Regional Trauma Centre and Equipment suppliers.
Ronald Mårvik, Head of Department
Gjermund Johnsen, Surgeon
Brynjulf Ystgaard, Surgeon

Kirsten Rønning, Engineer
Hilde Merete Klungerbo, Course Director

Cecilie Våpenstad, Researcher
Eivind Grong, Researcher
Arild de Vries, Researcher
Mission

The task of the Advisory Unit is to monitor, develop and present competence on a national level. The centre will increase the use and quality of laparoscopic/endoscopic/minimal invasive surgery.

NSALK is responsible for training surgeons, carrying out research and providing quality assurance of surgical procedures.

NSALK aims to be a leading centre of expertise promoting the implementation of minimal invasive surgery in Norwegian hospitals.
Courses

The centre offers courses for beginners as well as more experienced specialists.

As a national advisory unit we try to offer courses that are asked for by the local hospitals as well as the Norwegian Medical Association.
Research

NSALK has several research projects related to training, validation and development of simulators.

The advisory unit is active in research on bariatric surgery and has been involved in development of new surgical treatments such as VBLOC therapy.

NSALK also cooperates closely with Norwegian National Advisory Unit on Ultrasound and Image guided Therapy, through which the navigation platform “Custus X” has been developed.
Activity 2016
Two major achievements in 2016

• Accreditation NASCE March 2016

• We established National Networking Group for Laparoscopic Skills Training
## Courses 2016

<table>
<thead>
<tr>
<th>Course</th>
<th>Partner</th>
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<tbody>
<tr>
<td>Course in basic laparoscopic surgery (two courses)</td>
<td>The Norwegian Medical Association</td>
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<tr>
<td>Laparoscopy in acute abdomen</td>
<td>The Norwegian Medical Association</td>
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<tr>
<td>Laparoscopic/endoscopic treatment of bile stone</td>
<td>The Norwegian Medical Association</td>
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<tr>
<td>Trauma surgery (three courses)</td>
<td>Regional Trauma Centre</td>
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<tr>
<td>Basic course hernia</td>
<td>The Norwegian Medical Association</td>
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<tr>
<td>Thoraco-/laparoscopic surgery</td>
<td>The Norwegian Medical Association</td>
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<tr>
<td>Therapeutic endoscopy</td>
<td>The Norwegian Medical Association</td>
</tr>
<tr>
<td>Laparoscopic surgery, ultrasound and imageguided surgery</td>
<td>The Norwegian Surgical Society</td>
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The KOSIM-study

The objective with this program is to move parts of surgical education from a primarily attendance based system to a competence based system, and to move part of the training out of the operating room to simulator training. The surgeons under specialization will have training modalities available to train on. Actual skills will be assessed at enrollment of the program and with 12 months interval.

Today this study involves four hospitals in Norway.
Research: ultrasound and image-guided therapy
POEM- new navigation study

Helse Bergen
Haukeland universitetssjukehus

Norwegian National Advisory Unit for Ultrasound and Image-Guided Therapy

SINTEF
St. Olavs Hospital
Trondheim University Hospital
NTNU
Published articles 2016

**Grong E, Græslie H, Munkvold B, Arbo IB, Kulseng BE, Waldum HL, Mårvik R**
Gastrin Secretion After Bariatric Surgery-Response to a Protein-Rich Mixed Meal Following Roux-En-Y Gastric Bypass and Sleeve Gastrectomy: a Pilot Study in Normoglycemic Women.

**Grong E, Kulseng B, Arbo IB, Nord C, Eriksson M, Ahlgren U, Mårvik R**
Sleeve gastrectomy, but not duodenojejunostomy, preserves total beta-cell mass in Goto-Kakizaki rats evaluated by three-dimensional optical projection tomography.

A randomized clinical trial of neoadjuvant chemotherapy versus neoadjuvant chemoradiotherapy for cancer of the oesophagus or gastro-oesophageal junction.

CustusX: an open-source research platform for image-guided therapy.

**Bookchapter:**
Editor Arshad Malik. InTech Open Access
For more information about our activities – please visit our website: www.nsalk.org