

(report)

Aim of COURSE & UPDATE Endoscopic submucosal dissection (ESD) reveals lower curative resection rates (mean 60 – 70%) of malignant neoplasias (in esoph., colorectum) in Western series as compared to Japanese series (≥85%). This **advanced COURSE & UPDATE** is to improve endosc. indication and ESD performance towards professional level.

The COURSE (24 participants) consisted of 6 hrs experimental **SKILLS SESSION** on June 26 (8 x 3 partic.; 4 ESD stations, 4 stat. for Diff. Indication/ Clipping/ Suturing/ ESD Platforms), 8 hrs of **ESD CLINICAL TUTORING** in the Endoscopy unit on June 27 (3 x 8 partic., 6 ESD patients & 2 diagnost. pat.), and the **ENDO SKILL UPDATE**, i.e. Diagnosis- & ESD-LIVE transmission to auditorium (65 partic.) **as case study session** on June 28 (4 ESD patients; plus 2x quiz / 1x lecture). *Expert tutors* were T Oyama & A Takahashi (Saku, JP), T Toyonaga (Kobe, JP), N Yahagi (Tokyo, JP), S Kantsevoy (Baltimore, US), J Hochberger (Berlin, DE), H Seifert (Oldenburg, DE). *Moderators:* T Ponchon (FR), F Dumoulin (DE), G Kleber (DE), A Mitrovic (RU), A Wagner (AT), E Wedi (DE), A Ziachehabi (AT), M Abdelhafez (DE).

List of participants

In order to improve professional level of ESD, 24 endoscopists with clinical ESD experience (50% with >100 ESD, 25% each with 30 – 100 ESD and <30 ESD) participated in the COURSE. Seventeen of them had previously been at ESD Workshops / Clinical Tutorings, plus five in UPDATES (2009-2018) in Salzburg. They came from:

AT: Hospital LKH, St. Pölten	ES: Porta Hierros UH, Madrid	IT: St-Maria UH, Imola
BE: Clin. St-Joseph, Arlon	ES: La Fe Univ Hosp, Valencia	JD: Farah Med. Campus, Aman
BG: Univ. Hosp., Plovdiv	FR: CHU Inst P Calmette, Marseille	NL: Gelre Ziekenhuis, Apeldoorn
DE: Agaplesion Clinic, Kassel	IL: Hadassah UH, Jerusalem	NL: Isala Hosp., Zwolle
DE: Univ. Hosp., Leipzig	IL: Kaplan Med Ctr, Rehovot, Tel Aviv	PG: St-Maria Univ. Hosp., Lisbon-North
DE: Clinics Neuperlach, Munich	IT: Veneto Inst Oncol, UH, Padova	PG: Oncol. Inst. Gentil, Lisbon
DE: St Joh's Hosp., Munich	IT: St-Chiara Hosp, Trento	TR: Koacaeli Univ Hosp, Koacaeli, Istanbul
DE: Caritas-Clinics, Saarbrücken	IT. Ospedale, Conegliano	UK: Midland univ. Hosp, Stoke-on-Trent

The graphs representing the **Evaluation of the Course & Update** by participants are given below.

Clinical Outcome

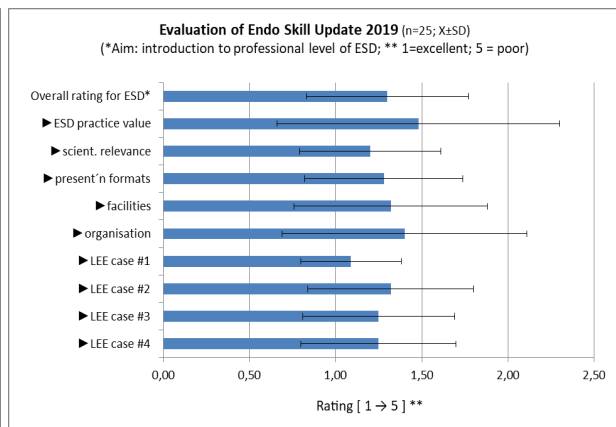
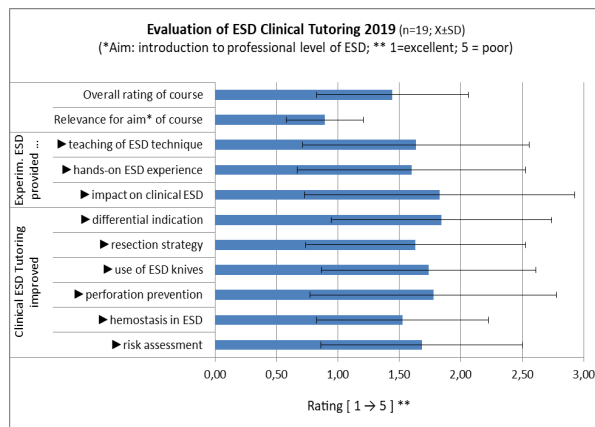
Twelve patients with 15 lesions have been examined on June 27th and 28th. Referral endoscopic diagnosis (by ESD endoscopists) was confirmed by the experts in 11 patients (incl. one hyperplastic 0-IIa/Is in ulcerative colitis) and was overstaged in one (esoph. SC-HGIN or Tis instead of LGIN) – yielding **93% accuracy for ESD indication**.

ESDs: Thirteen neoplasias in 10 patients underwent **en-bloc [100%] resection (1x EMR for 2cm LST-gm; 12x ESD & 1x Rectal Reconstruction** by Endocinch®) without complications (discharged within 4 days). **All resected NPL were malignant [100%]** (7x Ca, 6x HGIN): 3 esoph SCC (2 pTis, 1 pT1a G2), 3 Barrett NPL (2 AC G2 pT1a / pT1b sm-60µm; 1 multifoc HGIN), 1 gastr AC (pT1a, G1-2), 1 serrated adenoma (TSA & multifoc HGIEN & pTis G2), and 5 colorectal LST-ng (multifoc. HGIEN).

Outcome: All malignant NPL were LO VO and resected with free margins or Low Risk Resections (4x coagul. artefacts [≈ R1 lateral margin] at LGIEN) → **100% curative resection rate**. Outcome for the patients was excellent. Audiovisual recordings of some cases available under www.early-cancer.eu (user: endo19; pw: updt19).

Evaluation by participants

The ratings (on questionnaire) of the COURSE & UPDATE were very good as well as the expected impact on and relevance for future clinical ESD procedures (see graph, x±SD of ratings [1 = excellent; 5 = very poor]).



Most NPL (9/12) for ESD were very challenging lesions due recurrence / complexity/ location precluding to involve participants by hands-on assistance, which was feasible only in 3 cases. However, this *advanced Course format* will actively involve more participants in upcoming courses.