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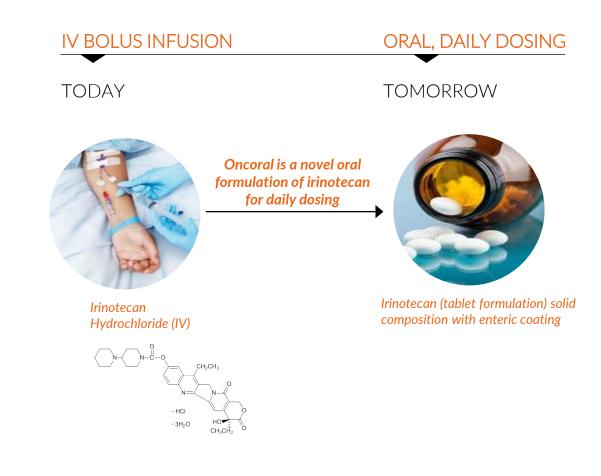
ONCORAL ADVANCING CHEMOTHERAPY

CMO Carl Bjartmar January 2021

I.V. IRINOTECAN IS AN ESTABLISHED CHEMOTHERAPY

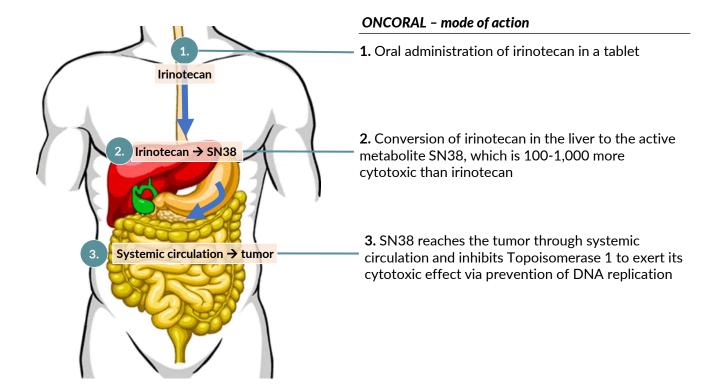
IRINOTECAN

- **Established** chemotherapy with recognized anti-tumor effect (typically as high-dose IV infusion)
- **Approved for** metastatic colorectal and pancreatic cancer, and for gastric cancer in Japan (off-label use US/EU)
- **Demonstrated** clinical benefits and used in other solid cancer indications



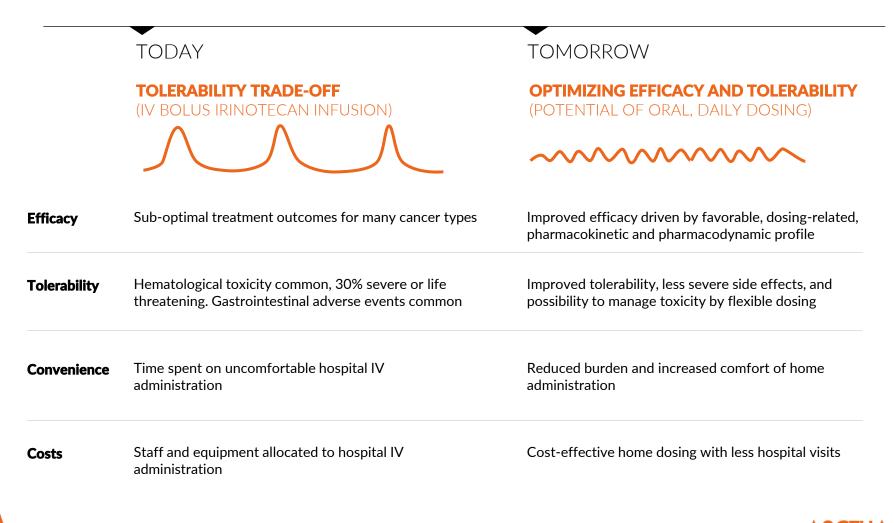


NEW ORAL IRINOTECAN TABLET FORMULATION





ORAL, DAILY DOSING: OPTIMIZING EFFICACY AND TOLERABILITY





OPTIMIZING **EFFICACY**

OPTIMIZING EFFICACY BY DAILY DOSING

- After oral administration, 5-fold more irinotecan is converted to the active metabolite SN-38 compared to after IV infusion¹
- Metronomic chemotherapy frequent low dose administration – appears clinically beneficial in a broad range of tumors²
- Frequent dosing can optimize the chance that tumor cells are exposed to SN-38 during the susceptible S-phase of the cell cycle, maximizing anti-tumor effect



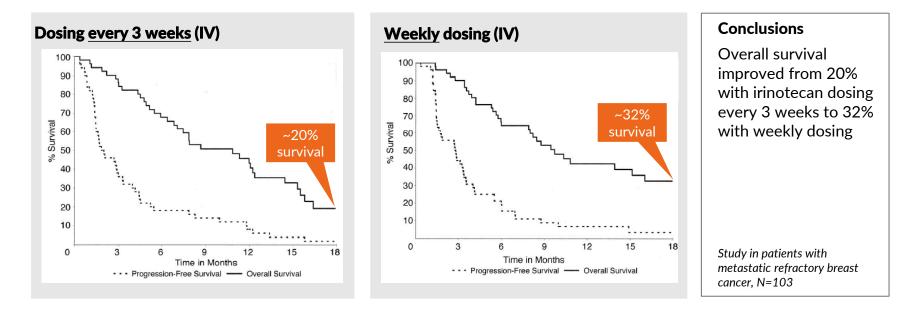
PROOF-OF-PRINCIPLE

- **Pre-clinical:** Metronomic dosing of irinotecan on xenografts in mice were more effective than the usual higher dose ^{3,4}
- **Clinical:** Positive clinical results with frequent dosing in pediatric and adult patients which progressed on standard therapy, incl. IV irinotecan^{1,4,5}
- **Oncoral:** Phase 1 results indicated activity (stable disease) even in patients previously treated with IV irinotecan¹
- **Daily chemotherapy** is in practice only possible with a tablet for home treatment



IMPROVED OVERALL SURVIVAL WITH MORE FREQUENT DOSING

STUDY COMPARING IRINOTECAN DOSING EVERY THIRD WEEK VS. WEEKLY DOSING¹





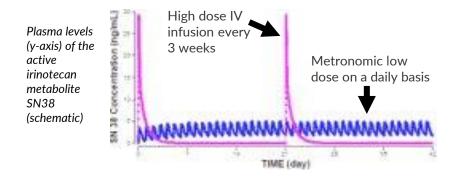
OPTIMIZING **TOLERABILITY**

OPTIMIZING TOLERABILITY BY DAILY DOSING

- Bolus IV infusions of irinotecan are associated with toxicity
- Most patients experience gastrointestinal and haematological side effects, approximately 30% severe or life-threatening (grade 3 or 4)¹
- Metronomic dosing may reduce peak related toxicity and complications compared to high-dose infusions
- Oral daily administration brings the opportunity to adjust dosing quickly in case of acute toxicity

PROOF-OF-PRINCIPLE

- **Pre-clinical:** Metronomic irinotecan dosing of xenografts in mice were less toxic than more intense schedules^{2,3}
- **Clinical:** More frequent, low-dose, irinotecan regimens showed improved tolerability in several clinical studies^{3,4}
- Oncoral Phase 1 results⁵:
 - ✓ Oncoral was well tolerated and safe with no unexpected side-effects
 - \checkmark Hematological toxicities mild to moderate (grade 1 or 2)







CLINICAL DEVELOPMENT

MOVING ONCORAL INTO PHASE 2





PHASE 1 – ENCOURAGING CLINICAL RESULTS

PHASE 1 SINGLE AGENT STUDY¹

Study:

Dose escalating, open label, single center 25 patients with metastatic or unresectable solid tumors

Key results:

- Hematological toxicities were few and all mild (grade 1) to moderate (grade 2)
- Pharmaco-Kinetic (PK) data showed consistent daily exposures during treatment at days 1 and 14 with no drug accumulation
- The active metabolite, SN-38, interpatient variability was in the same range as for IV administration

PHASE 1 COMBINATION STUDY²

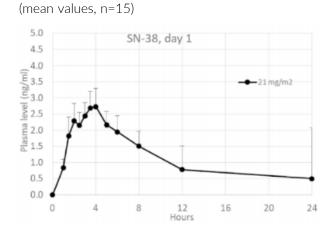
Study:

Open label, single center 14 patients with metastatic or unresectable solid tumors

Key results:

The combination of Oncoral with another oral chemotherapy, demonstrated reassuring tolerability which could enable an all-oral chemotherapy combination

Pharmacokinetic plasma profiles of SN-38





PHASE 2 - STUDY IN PREPARATION

OVERALL OBJECTIVE OF PHASE 2 STUDY:

- Establish clinical proof-of-concept in metastatic gastric cancer
 - Potential orphan drug designation
 - Clinical guidelines support efficacy of irinotecan
 - Potential for subsequent label expansion to other solid tumor indications
- Generate compelling Phase 2 data package for further development

Type of study	Randomized controlled, multicentre, multinational study of:
➡	Oncoral + Standard of Care <u>vs.</u> Standard of Care
Endpoints	Primary: Progression Free Survival
ॡ्रि	Secondary: Response rate, PK, safety and OS data in a follow up analysis
No. of patients	Approximately 100 patients
Study period	H2 2021 – 2024



ONCORAL SCIENTIFIC ADVISORY BOARD

Prof Josep Tabernero, MD, PhD

Head of the Medical Oncology Department at the Vall d'Hebron Barcelona Hospital Campus, Director of the Vall d'Hebron Institute of Oncology (VHIO), and Professor of Medicine

President (2018 – 2019) of ESMO and an Executive Board and Council Member



Prof Jaffer A Ajani, MD

Department of Gastrointestinal Medical Oncology, Division of Cancer Medicine, The University of Texas MD Anderson Cancer Center, Houston, USA

Chairs the NCCN committee for gastroesophageal cancers



Prof Eric Van Cutsem, MD, PhD

Professor and Division Head of Digestive Oncology at University of Leuven (KUL) and University Hospitals Gasthuisberg, Leuven, Belgium

Co-founded ESMO GI/World Congress on GI Cancer. Serves/served on the board/committee of ESMO, ASCO, ENET, EORTC, ECCO, ESDO



Prof Jeff Evans, MD

Professor of Translational Cancer Research and Clinical Lead of the Institute of Cancer Sciences, University of Glasgow

Member of the NCRN Upper GI Cancer Pancreatic Cancer and Gastro-Oesophageal Cancer sub-groups



Joint view that Oncoral would be an important treatment option for cancer patients, especially in later disease stages



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