

ASX / MEDIA RELEASE

2nd March 2017

Sirtex Medical Clinician Lunch and Learn Briefing

Sydney, Australia; 2nd March 2017 – Sirtex Medical Limited (ASX:SRX) today is hosting analysts and investors at the Sofitel Sydney Wentworth for a Clinician Lunch and Learn Briefing. Attached is a copy of the management and invited speaker presentations to be given at lunch time.

Furthermore, a live webcast of the briefing, commencing at 12:30 p.m., can be viewed by clicking on the following link or pasting it into your browser: <u>http://webcast.openbriefing.com/3300/</u>.

A recording of the webcast and slide presentation will be made available in the 'Investors' section of the Company website following the conclusion of the briefing at: <u>http://www.sirtex.com/au/investors/</u>

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Sirtex Medical Limited

Lunch and Learn Clinician and Corporate Briefing

Mr Nigel Lange, Interim CEO Dr David N. Cade, CMO

mCRC Presenter: A/Prof Nick Pavlakis HCC Presenter: Prof Bruno Sangro

Sydney, 2nd March 2017

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- Welcome
- Clinical Studies Recap & Reporting Timetable
- Session 1: Perspectives on Metastatic Colorectal Cancer
- Commercial Implications (mCRC)
- Session 2: Perspectives on Hepatocellular Carcinoma
- Commercial Implications (HCC)
- Q&A Panel
- Concluding Remarks

Dr David Cade Dr David Cade A/Prof Nick Pavlakis Mr Nigel Lange Prof Bruno Sangro Mr Nigel Lange All Speakers Mr Nigel Lange





Fourth Investor 'Lunch & Learn' event hosted by Sirtex









1. Educate investors/analysts ahead of major clinical studies

Two independent Key Opinion Leaders discuss the role of SIR-Spheres® microspheres in two key indications

- Metastatic colorectal cancer (mCRC)
- Hepatocellular carcinoma (HCC)
- 2. Articulate the scientific, clinical, medical and commercial considerations

Please save questions until Q&A Panel





Two highly regarded Key Opinion Leaders

A/Prof Nick Pavlakis MBBS, PhD, FRACP Medical Oncologist (Cancer Specialist)

Senior Staff Medical Oncologist, Department of Medical Oncology, RNSH Clinical Services Director & Trial Unit Head, Northern Cancer Institute Associate Professor in the Faculty of Medicine, University of Sydney <u>Translational researcher, key interests</u>: Lung & gastrointestinal cancers

Prof Bruno Sangro MD, PhD

Hepatologist (Liver Specialist)

Director of the Liver Unit at Clinica Universitaria de Navarra, Spain Professor of Medicine at the University of Navarra School of Medicine Leads the radioembolisation program at Clinica Universitaria de Navarra Senior Researcher, Centre for Biomedical Research (CIBERehd)







Clinical Studies Recap





Clinical Studies Recap

Metastatic colorectal cancer (mCRC)



There are three similarly designed studies in metastatic colorectal cancer (mCRC)

SIRflox SIR-Spheres⁺ Stratify FOLFOX6m* ± bevacizumab^{C4} Presence of extra-hepatic Randomise metastases 1:1 Degree of liver n = 530involvement Institution FOLFOX6m* ± bevacizumab^{C1} Use of bevacizumab **F*XFIRE** SIR-Spheres microspheres Stratify OxMdG chemotherapy Presence of extra-hepatic Randomise metastases 1:1 Degree of liver **n** = 364 involvement OxMdG chemotherapy Institution **F*XFIRE** SIR-Spheres^t Global nicrospheres Stratify FOLFOX6m* ± bevacizumab^{C4} Presence of extra-hepatic Randomise metastases 1:1 Degree of liver n = 209involvement Institution FOLFOX6m* ± bevacizumab^{C1}

 Use of bevacizumab

- 530 first-line patients, global
- SIRT + SOC⁽¹⁾ chemo/biologic therapy vs SOC alone
- Primary endpoint: PFS⁽²⁾, reported at ASCO 2015
- OS⁽³⁾ data not reported*
- 364 first-line patients, United Kingdom
- SIRT + SOC chemo/biologic therapy vs SOC alone
- Completed recruitment: October 2014
- Primary endpoint: OS*
- 209 first-line patients, global
- SIRT + SOC chemo/biologic therapy vs SOC alone
- Completed recruitment: January 2015
- Primary Endpoint: OS*

Notes: (1) SOC = standard of care; (2) PFS = progression-free survival; (3) OS = overall survival; * OS will be reported on the combined data set from the three studies





Clinical Studies Recap

Hepatocellular carcinoma (HCC)



There are three studies in hepatocellular carcinoma (HCC)





VESPRO⁽¹⁾ is a pre-planned prospective metaanalysis of Overall Survival



- 820 patient data set
- Scientifically valid method to more fully assessing outcomes of similarly designed clinical studies
- Facilitates more robust conclusions on Overall Survival
- Facilitates more robust conclusions on several important sub-groups:
 - Patients who received prior TACE
 - Patients with tumour invasion into their portal vein
- Design incorporates a non-inferiority analysis in the event that efficacy is similar between the treatments
- Allows clinicians to make informed choices on toxicity and cost





Clinical Studies Reporting Timetable





Clinical Studies reporting timetable

SARAH

- HCC SARAH*
 - EASL/ILC meeting**
 - Abstract release (unless embargoed)
 - Oral abstract presentation

19th – 23rd April 2017 5th April 2017 22nd April 2017





- mCRC SIRFLOX/FOXFIRE/FOXFIRE Global*
 - > ASCO Annual Meeting*
 - Abstract selection decision
 - Abstract release (unless embargoed)
 - Presentation of abstract

2nd – 6th June 2017 3rd April 2017 17th May 2017 TBC

^{13 *} Study investigators may also elect to disclose certain data outside of conference dates, at which time Sirtex will make an ASX announcement ** All dates provided represent local time zones (EU, USA)



Clinical Studies reporting timetable

SIRveNIB

HCC – SIR veNIB*

- ASCO Annual Meeting**
- Abstract selection decision
- Abstract release (unless rejected/withdrawn/embargoed)
- Presentation of abstract

2nd – 6th June 2017 3rd April 2017 17th May 2017 TBC

VESPRO – Combined prospective meta-analysis of SARAH + SIR veNIB

Results expected 2H CY17

SORAMIC

HCC - SORAMIC

Results expected 1H CY18

Thank you



Perspectives on Metastatic Colorectal Cancer

A/Prof Nick Pavlakis MBBS, PhD, FRACP Senior Consultant Medical Oncologist Royal North Shore Hospital & Northern Cancer Institute Sydney, NSW



Sydney, 2nd March 2017

Overview of today's talk

- 1. Introduction
- 2. Colorectal cancer
- 3. Quick review of SIRFLOX data
- 4. The SIRFLOX-FOXFIRE-FOXFIRE Global study



- 1. Introduction
- 2. Colorectal cancer
- 3. Quick review of SIRFLOX data
- 4. The SIRFLOX-FOXFIRE-FOXFIRE Global study



1. Introduction...

Who am I?

- Senior Staff Medical Oncologist, Department of Medical Oncology, RNSH (Ex-head)
- Clinical Services Director and Trial Unit Head, Northern Cancer Institute

• To achieve...

- Palliation (extend life)

Down-staging surgery cure

- Cure

- Medical oncologist (cancer specialist) & Clinical (translational) researcher
- We mostly deploy...
 - Chemotherapies
 - Biologic therapies
 - Immunotherapies
 - Hormonal therapies
- Keen research interests
 - Lung & gastrointestinal cancer (e.g. colorectal cancer)



1. Introduction...

What do Oncologists do?

- Cancer patients should be evaluated by a Multi-Disciplinary Team (MDT)...best practice since mid 2000s
- Each discipline offers a different treatment
 - Surgical oncologist
 - Main role is just after diagnosis...can they remove the cancer?
 - Medical oncologist
 - Adjuvant treatment after surgery ('mop up' any remaining cancer)
 - Lead the treatment of patients with advanced cancer
 - Care for the patient long-term (we are their shepherd)
 - Radiation oncologist
 - Use external radiation beams or radiation implants
 - Interventional radiologist
 - Perform minimally invasive treatments (e.g. SIRT)
 - Palliative care physician
 - Treat cancer symptoms and provide end of life care



1. Introduction...

SIRT has been used at Royal North Shore Hospital since 2001



JOURNAL OF CLINICAL ONCOLOGY

ORIGINAL REPORT

Treatment of Fluorouracil-Refractory Patients With Liver Metastases From Colorectal Cancer by Using Yttrium-90 Resin Microspheres Plus Concomitant Systemic Irinotecan Chemotherapy

Guy A. van Hazel<mark>, Nick Pavlakis,</mark> David Goldstein, Ian N. Olver, Michael J. Tapner, David Price, Geoffrey D. Bower<mark>, Gregory M. Briggs,</mark> Monica A. Rossleigh, D. James Taylor, and Jacob George

Patients

After ethics committee approval, patients were enrolled on this phase I, dose-escalation study at four Australian centers between September 2001 and October 2004. All patients were informed fully of the nature of the study and

- Involved in early trials of SIRT in mCRC
- Our MDT deploys SIRT in very novel ways
 - As a salvage therapy, OR
 - In combination with early-line chemotherapy, OR
 - As down-staging to surgery
- Very skilled Interventional Radiologists, Nuclear Medicine, Medical Physics, Surgeons



- 1. Introduction
- 2. Colorectal cancer
- 3. Quick review of SIRFLOX data
- 4. The SIRFLOX-FOXFIRE-FOXFIRE Global study



Colorectal (bowel) cancer is a disease of the large intestine (colon)



- Usually starts as a benign polyp
- Screening tests strongly recommended if >50 years old!
 - Faecal occult blood test from GP
 - Colonoscopy
 - No blood test available yet for screening
- Polyp may eventually becomes cancerous
- If left longer, may spread from the bowel
- Liver is usually the first 'port of call'
- Also may spread to lungs, lymph glands
- Liver metastases are often the main lifelimiting problem



2. Colorectal cancer...

Incidence & Cause



Colorectal cancer is the 3rd most common cancer in most first world countries⁽¹⁾

Worldwide incidence = 1,360,000 cases per year⁽¹⁾









Two main causes



Diet & Lifestyle

- Obesity
- Red & processed meat
- Alcohol
- Smoking
- Lack of exercise



Family History

• Genetic role



Reference: (1) WHO Globocan Statistics 2012. In men prostate and lung, and in women breast and lung are the 1st and 2nd most common cancers, respectively.

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2. Colorectal cancer...

Treatment



Colorectal cancer (CRC) that is confined to the bowel can often be cured



Intent of treatment <u>achieve cure</u>

Surgery alone

If cancer is confined within the bowel lining

Surgery + chemotherapy

If cancer has perforated through the bowel wall or if there is microscopic seeding of adjacent lymph nodes



Colorectal cancer that has metastasized (mCRC) is usually difficult to cure...



CT scan: not suitable for surgery



Intent of treatment palliative

(control symptoms and extend survival)

- 1st-line chemo + biologic therapy, then
- 2nd-line chemo + biologic therapy, then
- 3rd-line chemo + biologic therapy, then
- Salvage therapy or offer clinical trial



Survival in mCRC has progressively improved over the past two decades



SYDNEY

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Yet, despite meaningful advances in palliative therapy, 5-year survival for mCRC remains <10%

Chemo + biologic therapy for 1st-line mCRC⁽¹⁾



- 1. Introduction
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- 3. Quick review of SIRFLOX data

4. The SIRFLOX-FOXFIRE-FOXFIRE Global study



SIRFLOX compared 1st-line chemotherapy versus 1st-line chemotherapy + SIRT

Eligible Patients:

- Unresectable liver-only or liver-predominant colorectal cancer metastases
- No prior chemotherapy for advanced disease
- Fit for combination therapy and selective internal radiation therapy (SIRT)



- oxaliplatin administered at 60 mg/m² for Cycles 1–3 in the SIR-Spheres microspheres + FOLFOX arm ¹
- ^{C4/C1} at the investigator's discretion, bevacizumab may commence at Cycle 4 in the test arm and at Cycle 1 (or per institutional protocol) in the control arm

Prof Gibbs presented the initial SIRFLOX results as an Oral Abstract Presentation at ASCO in June 2015⁽¹⁾

SIRFLOX: Randomized phase III trial comparing first-line mFOLFOX6 (+bevacizumab) *versus* mFOLFOX6 (+bevacizumab) + selective internal radiation therapy (SIRT) in patients with metastatic colorectal cancer

> Peter Gibbs ⁽¹⁾, Volker Heinemann, Navesh K. Sharma, Michael P. N. Findlay, Jens Ricke, Val Gebski, Mark Van Buskirk, Guy A. Van Hazel, on behalf of the SIRFLOX Study Group

(1) The Royal Melbourne Hospital, Melbourne, Australia

And final SIRFLOX results were reported in the *Journal of Clinical Oncology* in February 2016⁽¹⁾

JOURNAL OF CLINICAL ONCOLOGY

ORIGINAL REPORT

SIRFLOX: Randomized Phase III Trial Comparing First-Line mFOLFOX6 (Plus or Minus Bevacizumab) Versus mFOLFOX6 (Plus or Minus Bevacizumab) Plus Selective Internal Radiation Therapy in Patients With Metastatic Colorectal Cancer

Guy A. van Hazel, Volker Heinemann, Navesh K. Sharma, Michael P.N. Findlay, Jens Ricke, Marc Peeters, David Perez, Bridget A. Robinson, Andrew H. Strickland, Tom Ferguson, Javier Rodrigez, Hendrik Kröning, Ido Wolf, Vinod Ganju, Euan Walpole, Eveline Boucher, Thomas Tichler, Hinat Shacham-Shmueli, Alex Powell, Paul Eliadis, Richard baacs, David Prize, Fred Moedein, Julien Taieb, Geoff Bower, Val Gebski, Mark Van Buskirk, David N. Cade, Kenneth Thurston, and Peter Gibbs

Authora fills tons appear at the end of this article.

Published online sheed of print at www.jco.org on February 22, 2016.

Written on behalf of the SIRFLOK Study Group. The principal investigators are listed in the online-only Appendix.

Processed as a Rapid Communication manuscript.

Supported by Sirtex Technology.

The protocol has been published (Gibbs et al. BMC Cancer 2014;14:807) and the results presented in part at the 2015 ASCO Amual Meeting, May 19-June 2, 2015, Chicago, L.

Authors' disclosures of potential conflicts of interest are found in the article online at www.jco.org. Author contributions are found at the end of this article.

Clinical trial information: NCT00724503.

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DOI: 10.1200/JCO.2015.68.1181

A B S T R A C T

Purpose

SIRFLOX was a randomized, multicenter trial designed to assess the efficacy and safety of adding selective internal radiation therapy (SIRT) using yttrium-90 resin microspheres to standard fluorouracil, leucovorin, and oxaliplatin (FOLFOX)-based chemotherapy in patients with previously untreated metastatic colorectal cancer.

Patients and Methods

Chemotherapy-naïve patients with liver metastases plus or minus limited extrahepatic metastases were randomly assigned to receive either modified FOLFOX (mFOLFOX6; control) or mFOLFOX6 plus SIRT (SIRT) plus or minus bevacizumab. The primary end point was progression-free survival (PFS) at any site as assessed by independent centralized radiology review blinded to study arm.

Results

Between October 2006 and April 2013, 530 patients were randomly assigned to treatment (control, 263; SIRT, 267). Median PFS at any site was 10.2 v10.7 months in control versus SIRT (hazard ratio, 0.93; 95% Cl, 0.77 to 1.12; P = .43). Median PFS in the liver by competing risk analysis was 12.6 v 20.5 months in control versus SIRT (hazard ratio, 0.69; 95% Cl, 0.05 to 0.90; P = .002). Objective response rates (OR Rs) at any site were similar (68.1% v 76.4% in control vSIRT; P = .113). ORR in the liver was improved with the addition of SIRT (68.8% v78.7% in control vSIRT; P = .042). Grade \ge 3 adverse events, including recognized SIRT-related effects, were reported in 73.4% and 85.4% of patients in control versus SIRT.

Conclusion

The addition of SIRT to FOLFOX-based first-line chemotherapy in patients with liver-dominant or liveronly metastatic colorectal cancer did not improve PFS at any site but significantly delayed disease progression in the liver. The safety profile was as expected and was consistent with previous studies.

J Clin Oncol 34. @ 2016 by American Society of Clinical Oncology


3. Quick review of SIRFLOX data...

SIRFLOX study endpoints were sensible when the study was designed

Primary endpoint

• Progression-Free Survival (PFS) at any site

Secondary endpoints

- Progression-Free Survival (PFS) in the liver
- Tumour response rate in the liver
- Tumour response rate at any site
- Liver resection rate
- Toxicity & safety
- Health-related quality of life
- Overall survival, in a pre-planned combined analysis with FOXFIRE and FOXFIRE Global studies



3. Quick review of SIRFLOX data...

SIRFLOX's primary endpoint was Progression-Free Survival

Simply put How long does a patient live, without tumours growing or developing at <u>any site in the body</u> i.e. "from top to toe"?



What was the significance of this result?



Our interpretation of this result

- P > 0.05
 Not statistically significant
- HR = 0.93 A 7% risk reduction is not large, we want to see 20% +
- 10.2 vs 10.7 months PFS Half a month's PFS extension is not large, we want 3 months +

Didn't meet primary endpoint



SIRFLOX's main secondary endpoint was Progression-Free Survival in the Liver

Simply put How long does a patient live, without the tumours in the <u>liver</u> growing?



What was the significance of this result?



Our interpretation of this result

- P = 0.002 Statistically significant
- HR = 0.69 A 31% reduced risk of tumour progression in the liver, good
- 12.6 vs 20.5 months PFSL Just under 8 months...durable tumour control in the liver

SIRT appears to deliver durable tumour control in the liver



What does this mean?

Does tumour control in the liver lead to improved survival?



Well, definitive Overall Survival results are expected to be presented at ASCO in June 2017...

Study Name	Study Design	Geographic Region ⁽¹⁾	Recruitment Completed	Patients Recruited	OS Data Expected
SIRFLOX	RCT ⁽²⁾	ANZ, EME, US	April 2013	530	
FOXFIRE	RCT ⁽²⁾	UK	November 2014	364	2017
FOXFIRE Global	RCT (2)	ANZ, AP, EME, US	January 2015	209	
			Total accrual	1,103	

1. ANZ: Australia, New Zealand; AP: Asia Pacific; EME: Europe & Middle East; UK: United Kingdom; US: United States

2. FOLFOX-based (+ biologic) vs. FOLFOX-based (+ biologic) + SIRT



- 1. Introduction
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4. The SIRFLOX-FOXFIRE-FOXFIRE Global study



SIRFLOX + FOXFIRE + FOXFIRE Global will be combined in a pre-planned analysis of Overall Survival



SIRFLOX + FOXFIRE + FOXFIRE Global endpoints

Primary endpoint

• Overall Survival (OS)

Secondary endpoints

- Progression-Free Survival (PFS) at any site
- Progression-Free Survival (PFS) in the liver
- Safety & toxicity
- Healthcare costs / health economics
- Quality of life
- Tumour response rate
- Liver resection rate
- % of patients receiving 2nd-line therapy



4. The SIRFLOX–FOXFIRE–FOXFIRE Global study...

How may we interpret the primary endpoint, Overall Survival?



Overall Survival results could fall into one of three main outcome scenarios

Overall Survival Result	P Value	Hazard Ratio (HR)	Interpretation		
'Superior'	<0.05	<0.80	 Statistically significant (p<0.05): primary endpoint is 'met' Clinically significant (HR<0.08): Adding SIRT to chemotherapy reduces the risk of death by at least 20% c.f. chemoTx 		
'No difference'	>0.05	>0.90	 Not statistically significant (p>0.05): 'did not meet' primary endpoint Possible trend towards a survival benefit (HR>0.90): Adding SIRT to chemoTx reduces risk of death by 10% or less, c.f. chemoTx 		
'Possibly inferior'	>0.05	≥1 .00	 Not statistically significant (p>0.05): 'did not meet' primary endpoint Possibly worse survival (HR≥1.00): Adding SIRT to chemoTx has the same, or worsens the risk of death, c.f. chemoTx 		
46	tatistical significance	Clinical significance			

4. The SIRFLOX-FOXFIRE-FOXFIRE Global study...

The Overall Survival result will guide the future use of SIRT in mCRC

Overall Survival Result	Future Clinical Use in mCRC		
'Superior'	 1st-line use warranted because this extends survival With 1st-line induction chemotherapy, OR With 1st-line maintenance chemotherapy Case for inclusion in Consensus Practice Guidelines is strong Case for further reimbursement is strong 		
'No difference'	 1st-line use unlikely Remains a late-line 'salvage' therapy or option for "chemo break" Sub-groups may be important Patients with liver-only disease (660 out of the 1,103) is the most important sub-group 		
'Possibly inferior'	 Remains a late-line 'salvage' therapy Sub-groups may still be important Patients with liver-only disease (660 out of the 1,103) is the most important sub-group 		



4. The SIRFLOX–FOXFIRE–FOXFIRE Global study...

Which sub-group is the most important?



Patients with liver-only disease (LOD) are likely to gain the most survival benefit from SIRT





60% of the 1,103 patients had LOD at the time they entered the study



An Overall Survival result in patients with LOD may also guide the future use of SIRT

Overall Survival Result in LOD Subset	Future Clinical Use for Patients with LOD
'Superior'	 1st-line use warranted because this extends survival in patients with LOD Case for inclusion in Consensus Practice Guidelines is strong Case for further reimbursement is strong
'No difference'	 Any 1st-line use unlikely in patients with LOD Remains a late-line 'salvage' therapy
'Possibly inferior'	Remains a late-line 'salvage' therapy



Thank you

References, slide 15

- 1. Saltz et al. N Engl J Med. 2000
- 2. Douilliard et al. Lancet. 2000
- 3. Goldberg et al. J Clin Oncol. 2004
- 4. Hurwitz et al. N Engl J Med. 2004
- 5. Saltz et al. J Clin Oncol. 2008
- 6. Falcone et al. J Clin Oncol. 2007
- 7. Bokemeyer et al. Ann Oncol. 2011
- 8. Van Cutsem et al. J Clin Oncol. 2011
- 9. Douilliard et al. Ann Oncol. 2014
- 10. Heinemann et al. Lancet Oncol. 2014
- 11. Falcone et al. ASCO 2013. Abstract 3505\
- 12. Douillard et al. New Engl J Med. 2013
- 13. Van Cutsem et al. Ann Oncology ESMO GI 2014 A
- 14. Venook et al. ASCO 2014. Abstract LBA3; Plenary presentation





mCRC: Commercial implications

Mr Nigel Lange Interim CEO





mCRC: Commercial implications

- The annual addressable market opportunity in mCRC has been previously presented as 279,000 patients
- This market model is reasonable, until such time as the SIRFLOX/FOXFIRE/ FOXFIRE Global studies report findings



- (1) Sirtex markets = APAC: Australia, China, Hong Kong, India, Japan, Malaysia, New Zealand, Philippines, Singapore, South Korea, Taiwan, Thailand. EMEA: Austria, Belgium, Egypt, Estonia, Finland, France, Germany, Greece, Israel, Italy, Poland, Portugal, South Africa, Spain, Sweden, Switzerland, The Netherlands, Turkey, United Kingdom. Americas: Argentina, Brazil, Canada, Mexico, USA
- (2) Hind D. Tappenden P., Tumur I et. al. Technology assessment report commissioned by the HTA Programme on behalf of The National Institute for Clinical Excellence. 10 January 2005.
- (3) Sirtex data and analysis.

Note the market models Sirtex provides should be considered as a guide and are based on incidence data and basic assumptions on use: they do not account for individual access to treatment via govt. or private insurance, age, extent of disease, or prevalence of disease in any one market. They provide an estimate of the addressable patient population only.





- ✓ SIR-Spheres microspheres + Standard of Care (SOC) chemo/biologic therapy is <u>Superior</u> to SOC chemo/biologic therapy alone
- SIR-Spheres microspheres + SOC chemo/biologic therapy is <u>No Different</u> to SOC chemo/biologic therapy alone
- SIR-Spheres microspheres + SOC chemo/biologic therapy is possibly <u>Inferior</u> to SOC chemo/biologic therapy alone





FOXFIRE et al: Priorities on superiority

Z Sales and Marketing

- Commence promotional activities <u>globally</u> on the result (all markets approved for mCRC)
- → Publication of study data in leading peer-reviewed journal <12 months

 </p>

7 Update clinical practice guidelines

- NCCN, ESMO, other
- May include country specific guidelines (Australia, Germany S-3, etc.)







FOXFIRE et al: Priorities on superiority

Regulatory

- ↗ No immediate regulatory filings required
- Update current US PMA to reflect evidence with modern chemotherapy (FOLFOX) and biologic (bevacizumab/Avastin[®]) therapy

Reimbursement and Market Access

- Commence discussions with government and private payers
- Update recommendations





(1) Sirtex markets = APAC: Australia, Hong Kong, India, Malaysia, New Zealand, Philippines, Singapore, South Korea, Taiwan, Thailand. EMEA: Austria, Belgium, Egypt, Estonia, Finland, France, Germany, Greece, Israel, Italy, Poland, Portugal, South Africa, Spain, Sweden, Switzerland, The Netherlands, Turkey, United Kingdom. Americas: Argentina, Brazil, Canada, USA

(2) Hind D, Tappenden P, Tumur I et. al. Technology assessment report commissioned by the HTA Programme on behalf of The National Institute for Clinical Excellence. 10 January 2005.

(3) NICE Technology Appraisal TA 93: Irinotecan, oxaliplatin and raltitrexed for the treatment of advanced colorectal cancer. Aug 2005.

(4) Kumar R *et al.* Colorectal cancer survival: An analysis of patients with metastatic disease synchronous and metachronous with the primary tumor. *Clin Colorectal Cancer* 2014; 13(2):87-93. (5) Sirtex data and analysis

Globocan http://globocan.iarc.fr/Pages/fact_sheets_population.aspx [EU(5) includes the UK] * Please refer to important footnote on slide 54 when examining data



FOXFIRE et al: No difference / equivocal

Regulatory

↗ No immediate regulatory filings required

Sub-group data (liver only, liver plus extra-hepatic disease)

- If no difference is observed in the primary endpoint, but there is a trend in Overall Survival favouring the SIR-Spheres microspheres group, then sub-group analyses become important
- Two sub-groups of interest are the liver-only and liver plus extra-hepatic disease

ightarrow Sales and Marketing

↗ Similar approach as superiority, focusing on sub-groups

✓ Update clinical practice guidelines

↗ Similar approach as superiority, focusing on sub-groups





FOXFIRE et al: Sub-groups of interest



- (1) Sirtex markets = see previous slides
- (2) Hind D, Tappenden P, Tumur I et. al. Technology assessment report commissioned by the HTA Programme on behalf of The National Institute for Clinical Excellence. 10 January 2005.
- (3) NICE Technology Appraisal TA 93: Irinotecan, oxaliplatin and raltitrexed for the treatment of advanced colorectal cancer. Aug 2005.
- (4) Kumar R et al. Colorectal cancer survival: An analysis of patients with metastatic disease synchronous and metachronous with the primary tumor. Clin Colorectal Cancer 2014; 13(2):87-93.
- SIRTeX

- 60 (5) Sirtex data and analysis
 - DU Globocan http://globocan.iarc.fr/Pages/fact_sheets_population.aspx [EU(5) includes the UK] * Please refer to important footnote on slide 54 when examining data



(1) Sirtex markets - see previous slides

(2) Hind D, Tappenden P, Tumur I et. al. Technology assessment report commissioned by the HTA Programme on behalf of The National Institute for Clinical Excellence. 10 January 2005.
 (3) GlobalData. Colorectal cancer – Global drug forecast and market analysis to 2025. January 2017

(4) Kumar R *et al.* Colorectal cancer survival: An analysis of patients with metastatic disease synchronous and metachronous with the primary tumor. *Clin Colorectal Cancer* 2014; 13(2):87-93. (5) Sirtex data and analysis

Globocan http://globocan.iarc.fr/Pages/fact_sheets_population.aspx [EU(5) includes the UK]. * Please refer to important footnote on slide 54 when examining data

Thank you







Perspectives on Hepatocellular Carcinoma

Prof. Bruno Sangro Clínica Universitaria CIBERehd Pamplona, Spain

Sydney 2nd March 2017



Overview of today's talk

- 1. Introduction
- 2. Hepatocellular carcinoma
- 3. Overview of key SIRT data in HCC
- 4. The SARAH study How will we interpret the results?

1. Introduction

- 2. Hepatocellular carcinoma
- 3. Overview of key SIRT data in HCC
- 4. The SARAH study How will we interpret the results?

1. Introduction...

A little about me...

- Director of the Liver Unit, University Clinic of Navarra, Pamplona, Spain
- Prof of Medicine, University of Navarra School of Medicine
- Senior Researcher, Centre of Biomedical Research, Hepatic and Digestive Diseases Network (CIBERehd)
- Hepatologist = 'Liver Specialist'
 - Research focus is liver cancer



- > Lead the Radioembolization⁽¹⁾ Program at University Clinic
- First SIRT September 2003
- > 400 patients treated with SIRT since 2003

66 Notes: (1) Radioembolization is another term for selective internal radiation therapy (SIRT).



1. Introduction...

What do Hepatologists do?

We treat diseases of the liver (and bile ducts, gallbladder, pancreas)

nosis

The 'Big Three'





And many others to keep us occupied!





1. Introduction...

Our group has endeavoured to contribute to the scientific literature on SIRT in HCC

Published on Efficacy

- 325 patients
- 8 European institutions



A European Evaluation

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Published on Safety

- 260 patients
- Our institution





1. Introduction...

A little bit about University Clinic of Navarra





- **10,956** students
 - 128 degrees
 - **16** million euros for research
 - **14%** students from 86 countries
 - **39%** students participating in international exchange programs
 - 7% international professors



1. Introduction...

A little bit about University Clinic of Navarra





- Mediterranean rim is a 'hotspot' for HCC
- France, Italy, Spain have led the understanding & treatment of HCC
- Private University Hospital
 - High priority focus on therapeutic innovation
 - > High priority focus on research


- 1. Introduction
- 2. Hepatocellular carcinoma
- 3. Overview of key SIRT data in HCC
- 4. The SARAH study How will we interpret the results?

The liver is a football sized organ located under the ribs on the right hand side...



• Factory

- Produces proteins (blood clotting factors, hormones, albumin, cholesterol)
- Produces bile juices

• Warehouse

- Stores glucose and vitamins
- Power plant
 - Metabolizes nutrients to produce energy
- Decontamination unit
 - Removes potentially toxic byproducts (internal & external)
- Helps fight infection



Incidence & Cause

Hepatocellular carcinoma is the main type of primary liver cancer

• Worldwide incidence= 780,000 cases per year⁽¹⁾ & climbing





52,000

• Three main causes



Long term **alcohol** misuse



Long term viral **hepatitis B** infection



Long term viral **hepatitis C** infection



Treatment

HCC is very difficult to treat as most patients have two diseases at once: cancer and an injured liver

Many years 1. Normal 2. Cirrhosis **3. HCC** liver Cancer, occurring in an injured organ Patient has two diseases at once Long term injury Challenging to treat

For patients with HCC, the disease stage (i.e. extent) determines the treatment...and the prognosis



Early disease – effective treatments Intermediate & advanced disease – large unmet need



un Universidad de Navarra

Sorafenib has been the standard of care for advanced HCC since 2008

- No treatment available prior to 2008
- SHARP study ASCO 2008 & New England Journal of Medicine 2008 ⁽¹⁾
 - Sorafenib (299 patients) Median survival = 10.7 months
 - Placebo (303 patients) Median survival = 7.9 months
- Sorafenib was the first effective drug for advanced HCC
- Sorafenib became new standard of care against which to compare new therapies in randomized controlled trials
 New drugs, SIRT



Sorafenib provides a modest survival benefit in advanced HCC, but has several disadvantages

• Quite toxic

- Hand-foot syndrome (severe rash)
- > Diarrhoea
- Fatigue
- Have to take it continuously
- Expensive
 - > US\$9,000 per month

• Therefore, need new treatments...



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3. Overview of key SIRT data in HCC...

Data on the survival achieved with SIRT in advanced HCC was presented in 2011

VOLUME 54, NUMBER 3 - SEPTEMBER 2011

Hepatology

OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION FOR THE STUDY OF LIVER DISEASES

Survival After Yttrium-90 Resin Microsphere Radioembolization of Hepatocellular Carcinoma Across Barcelona Clinic Liver Cancer Stages: A European Evaluation

Bruno Sangro,¹ Livio Carpanese,² Roberto Cianni,³ Rita Golfieri,⁴ Daniele Gasparini,⁵ Samer Ezziddin,⁶ Philipp M. Paprottka,⁷ Francesco Fiore,⁸ Mark Van Buskirk,⁹ Jose Ignacio Bilbao,¹⁰ Giuseppe Maria Ettorre,¹¹ Rita Salvatori,¹² Emanuela Giampalma,⁴ Onelio Geatti,¹³ Kai Wilhelm,¹⁴ Ralf Thorsten Hoffmann,⁷ Francesco Izzo,¹⁵ Mercedes Iñarrairaegui,¹ Carlo Ludovico Maini,¹⁶ Carlo Urigo,³ Alberta Cappelli,¹⁷ Alessandro Vit,⁵ Hojjat Ahmadzadehfar,⁶ Tobias Franz Jakobs,⁷ and Secondo Lastoria,¹⁸ on behalf of the European Network on Radioembolization with Yttrium-90 Resin Microspheres (ENRY)

- o 325 patients
- o 8 European institutions
- Retrospective study of 'real world' use

- Median overall survival
- Early stage HCC
- Intermediate stage HCC
- Advanced stage HCC

12.8 months24.4 months16.9 months10.0 months

SARAH study patient population

3. Overview of key SIRT data in HCC...

Additional data on the survival achieved with SIRT comes from the glass Y90 microspheres data



- Survival by HCC stage of disease is similar for resin and glass Y90 microspheres
- Apparent differences in survival are statistically insignificant

Reference: Sangro *et al* J Nucl Med Radiat Ther 2011;2:1. Salem *et al* Gastroenterology 2010; 138: 52–64. Sangro *et al* Hepatology 2011; 54: 868–878.



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- 1. Introduction
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4. The SARAH study – How will we interpret the results?

4. The SARAH study – How will we interpret the results?

SARAH compared SIRT versus sorafenib in patients with advanced HCC in France $^{(1, 2)}$

Eligible Patients:

- Unresectable HCC
- BCLC stage C or
- BCLC stage A/B:
 - New lesions post-radical therapy and unsuitable for further radical therapy or
 - No objective response after ≤2 TACE sessions
- If cirrhotic, Child-Pugh class A or B ≤7 points
- ECOG performance status (PS) 0–1
- Fit for sorafenib and ⁹⁰Y



85 Reference: (1) www.clinicaltrials.gov identifier NCT01482442, (2) Vilgrain et al. Trials 2014, 15:474.

SARAH endpoints

Primary endpoint

Overall Survival (OS)

Secondary endpoints

- Adverse events rate (safety)
- Progression-Free Survival (PFS) at 6 months
- o Tumour response rate (complete, partial, stability)
- Quality of life (general and liver specific)
- o Treatment cost



How may we interpret the primary endpoint, Overall Survival?

4. The SARAH study – How will we interpret the results?

Overall Survival results could fall into one of three main outcome scenarios

Overall Survival Result	P Value	Hazard Ratio (HR)	Interpretation
'Superior' to sorafenib	<0.05	<0.80	 Statistically significant (p<0.05): primary endpoint is 'met' Clinically significant (HR<0.80): SIRT reduces the risk of death c.f. sorafenib by at least 20%
'No different' to sorafenib	>0.05	>0.90	 Not statistically significant (p>0.05): 'did not meet' primary endpoint Possible trend towards a survival benefit (HR>0.90): SIRT reduces the risk of death c.f. sorafenib by 10% or less
'Possibly inferior' to sorafenib	>0.05	≥1.00	 Not statistically significant (p>0.05): 'did not meet' primary endpoint Possibly worse survival (HR≥1.00): SIRT has the same, or worsens the risk of death, c.f. sorafenib
88	Statistical significance	Clinical significance	un Universidad de Navar

4. The SARAH study - How will we interpret the results?

The Overall Survival result will guide the future use of SIRT in the treatment of HCC

Overall Survival Result	Future Clinical Use in HCC		
'Superior' to sorafenib	 SIRT potentially a new standard of care in Advanced HCC as it extends survival Highly feasible, as HCC is already treated mainly with liver directed therapies (Surgery, Transplantation, Ablation, TACE) Case for inclusion in Consensus Practice Guidelines is strong Case for further reimbursement is strong Case for regulatory submission to US FDA seeking HCC indication is strong 		
'No different' to sorafenib	 SIRT may still be used in Advanced HCC SIRT is usually less toxic than sorafenib VESPRO meta-analysis becomes important Pre-specified sub-groups 		
'Possibly inferior' to sorafenib	 VESPRO meta-analysis becomes important Pre-specified sub-groups 		



4. The SARAH study - How will we interpret the results?

A key sub-group of interest is patients with portal vein involvement (PVI)

 Patients with HCC and PVI treated with SIRT or SOR in 4 Spanish hospitals between 2005 and 2013



- Retrospective analysis of survival
- A multivariate prognostic model was adjusted by a propensity score based on factors that may determine the probability of exposure to SIRT



Conclusions

- SARAH is a critical RCT in HCC
- SIRveNIB is a very similar RCT in HCC in Asian patients
- Results may change management in advanced HCC...
- ...But advanced HCC is a very difficult disease to treat
- ...No successful new drugs approved since 2008
- Results will confirm / refute survival benefit of SIRT
- Even a 'no survival difference' result may be important if the toxicity of SIRT < sorafenib
- Results are highly awaited!

Thank you for your attention!



HCC: Commercial considerations

Mr Nigel Lange Interim CEO





HCC: Commercial considerations

- The annual addressable market opportunity in HCC has been previously presented as 209,000 patients
- This market model is reasonable, until such time as the SARAH, SIRveNIB, VESRPO and SORAMIC studies report findings



(2) Llovet et. al. Design and endpoints of clinical trials in hepatocellular carcinoma. J Natl Cancer Inst 2008 (3) Sirtex data and analysis.

Note the market models we will provide should be considered a guide and are based on incidence data and basic assumptions on use: they do not account for individual access to treatment via govt. or private insurance, age, extent of disease, or prevalence of disease in any one market. They provide an estimate of the addressable patient population only.





✓ SIR-Spheres microspheres is <u>Superior</u> to sorafenib

✓ SIR-Spheres microspheres is <u>No Different</u> to sorafenib

✓ SIR-Spheres microspheres is Inferior to sorafenib





SARAH: Priorities on superiority

Regulatory

- Submit a Pre-Market Approval (PMA) Supplement to the US FDA to include an HCC claim on the current label (mCRC only) - 2H CY17, min.180 day review
- Submissible as a foreign clinical study that conforms with Declaration of Helsinki on ethical principles

↗ Update clinical practice guidelines

↗ NCCN, ESMO, BCLC, other

Guidance for Industry and FDA Staff FDA Acceptance of Foreign Clinical Studies Not Conducted Under an IND Frequently Asked Questions



clinical practice guidelines

Annals of Oncology 23 (Supplement 7): vii41–vii48, 2012 doi:10.1093/annonc/mds225

Hepatocellular carcinoma: ESMO–ESDO Clinical Practice Guidelines for diagnosis, treatment and follow-up[†]

C. Verslype 1,2 , O. Rosmorduc 3 & P. Rougier 4 , on behalf of the ESMO Guidelines Working Group * ESDO, European Society of Digestive Oncology

Departments of ¹Hepatology; ²Digestive Oncology, University Hospitals Leuven, Leuven, Belgium; ³Department of Gastroenterology and Hepatology, Saint-Antoine Hospital, Paris, France; ⁴Department of Digestive Oncology, European Georges Pompidou Hospital, Paris, France





SARAH: Priorities on superiority

Sales & Marketing

- Commence promotional activities across EMEA, Latin America, APAC
- No marketing possible in the USA (until granted PMA Supplement) and Taiwan (mCRC only label)
- Publication of study in leading peer-reviewed journal (<12 months)</p>

Reimbursement and Market Access

Commence discussions with private and government payers





SARAH: Market potential on superiority



- 61,000 patients (pts) per annum potentially treatable
- 38% of pts (23,000) within Sirtex's key markets
- Of the 62% remaining, majority reside in Asian markets, due to high infection rates of Hepatitis B & C

- (1) Sirtex markets = APAC: Australia, Hong Kong, India, Malaysia, New Zealand, Philippines, Singapore, South Korea, Taiwan, Thailand. EMEA: Austria, Belgium, Egypt, Estonia, Finland, France, Germany, Greece, Israel, Italy, Poland, Portugal, South Africa, Spain, Sweden, Switzerland, The Netherlands, Turkey, United Kingdom. Americas: Argentina, Brazil, Canada, USA.
- (2) Llovet et. al. Design and endpoints of clinical trials in hepatocellular carcinoma. J Natl Cancer Inst 2008.
- (3) Sirtex data and analysis.
- Globocan http://globocan.iarc.fr/Pages/fact_sheets_population.aspx [EU(5) includes the UK]. * Please refer to important footnote on slide 94 when examining data



SARAH: No difference / equivocal

If a similar Overall Survival benefit is observed between SIR-Spheres and sorafenib, several secondary endpoints are of interest

- Adverse events (i.e. safety and toxicity) is SIR-Spheres better?
- ✓ Quality of life is SIR-Spheres better?
- → Health care costs is SIR-Spheres more cost effective?
- ↗ In the event that one or more favour SIR-Spheres, there is still commercial value

Sales & Marketing

- Commence promotional activities across EMEA, Canada, APAC based on similar OS benefit and potentially improved patient/payer benefits
- No marketing possible in the USA (unless if granted PMA Supplement) and Taiwan (mCRC only label)



SARAH: Market potential on No difference / equivocal



- (2) Llovet et. al. Design and endpoints of clinical trials in hepatocellular carcinoma. J Natl Cancer Inst 2008.
- (3) Geschwind et. al. Use of Transarterial Chemoembolization (TACE) and Sorafenib in Patients with Unresectable Hepatocellular Carcinoma: US Regional Analysis of the GIDEON Registry. Liver Cancer 2016
- (4) Sirtex data and analysis.
- Globocan http://globocan.iarc.fr/Pages/fact_sheets_population.aspx [EU(5) includes the UK]. * Please refer to important footnote on slide 94 when examining data

- Option for clinicians to switch sorafenib patients to SIR-Spheres
- USA depends on submissibility or otherwise of study data to FDA – VESPRO becomes important consideration
- EU(5) a near term significant opportunity due to funding restrictions on sorafenib
- Asian market potential contingent on SIR veNIB and potentially VESPRO data





SARAH: Inferiority

SIR-Spheres continues as 'salvage' therapy

- ✓ For patients who are unable to access sorafenib (cost, reimbursement)
- ↗ For patients where the doctor preferences SIR-Spheres
- ↗ For patients who are intolerant to sorafenib
- ↗ For patients who progress on sorafenib and regorafenib (assuming approval)

✓ SIR veNIB, VESPRO & SORAMIC

- For Asian patients, utilisation of SIR-Spheres will be dependent on outcomes of SIR veNIB study
- VESPRO meta analysis will be useful in identifying if SIR-Spheres are Non-Inferior or if there is a benefit in sub-groups (more later)
- SORAMIC results in 1H CY18 may show SIR-Spheres + sorafenib superior to sorafenib alone – strategies will be similar to 'superiority' scenario of SARAH





(3) Geschwind et. al. Use of Transarterial Chemoembolization (TACE) and Sorafenib in Patients with Unresectable Hepatocellular Carcinoma: US Regional Analysis of the GIDEON Registry. Liver Cancer 2016,

- (4) GlobalData
 - (5) Sirtex data and analysis.

Globocan http://globocan.iarc.fr/Pages/fact_sheets_population.aspx [EU(5) includes the UK]. * Please refer to important footnote on slide 94 when examining data

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SIR *ve***NIB**

Outcome scenarios identical to that of SARAH:

- SIR-Spheres microspheres is <u>superior</u> to sorafenib
- ✓ SIR-Spheres microspheres is <u>no different</u> to sorafenib

GUIDELINES

- ✓ SIR-Spheres microspheres is <u>inferior</u> to sorafenib
- SIRveNIB study data alone is not submissible to US FDA for a label change (PMA Supplement) in the event that SIR-Spheres is superior to sorafenib
- In general, the sales & marketing and treatment guideline strategies under these scenarios would also be similar to SARAH, albeit made in the context of the Asian region

Asian Pacific Association for the Study of the Liver consensus recommendations on hepatocellular carcinoma

National Cancer Centre Singapore Consensus Guidelines for Hepatocellular Carcinoma

It is important to note that Asian clinicians are highly expert in use liverdirected therapies (TACE, RFA, SIRT) due to high incidence of HCC and the availability of sorafenib is limited (efficacy, cost, reimbursement)





SIR veNIB

- Secondary endpoints of note in the SIR veNIB study, which may support SIR-Spheres use if primary endpoint not reached:

 - Z Liver resection rate
 - \nearrow Liver transplantation rate

Leverage any benefit(s) over sorafenib & lack of large RCTs (Level I Evidence) of Liver-Directed Therapies (TACE) for HCC in Asian populations

Failure of the study does not impede our market expansion activities across Asia, nor does it impact on our plans to enter Japan and China



 HCC incidence:
 395,000

 CRC incidence:
 253,000





The Importance of VESPRO

Prospective meta-analysis will allow for increased precision to estimate efficacy (survival) across 819 SARAH/SIR veNIB patients

- Increased power to detect clinically important differences in sub-groups including those pre-treated with TACE, or invasion into portal vein (a contraindication for TACE)
- Articulates a methodology, in a prospective manner, to examine the pooled data for non-inferiority to sorafenib
 - May allow SIR-Spheres to compete on basis of better safety & toxicity, Quality of Life (QoL) or cost-effectiveness
- Positive data may support an additional label claim in the US based on superiority or non-inferiority or sub-group benefits





What is the opportunity in the event that all clinical studies are unsuccessful and no commercial value can be obtained?

- Salvage Only




Salvage opportunity presented as existing 'on-label' regulatory clearances, future expansion of indications (USA) and assumes mCRC/HCC for Japan/China

TOTAL potential salvage opportunity in **existing** markets – **184,000 pts p.a.**

Note the market models Sirtex provides should be considered a guide and are based on incidence data and basic assumptions on use: they do not account for individual access to treatment via govt. or private insurance, age, extent of disease, or prevalence of disease in any one market. They provide an estimate of the addressable patient population only.

* Intended future label for USA would include multiple disease indications (currently only cleared for mCRC). ROW = Sirtex markets: Malaysia, India, NZ, Philippines, Singapore, Sth Korea, Thailand, Turkey, Brazil, Argentina Globocan http://globocan.iarc.fr/Pages/fact_sheets_population.aspx









Concluding remarks

- $\overline{\mathcal{A}}$ Successful clinical studies have the capability to transform the business
- Significant growth opportunities exist within our base (salvage) business, in the event the clinical studies are unsuccessful
- Sirtex greatly appreciates Professor Sangro and Associate Professor Pavlakis taking time out of their busy schedules to present to investors today
- ✓ We look forward to updating investors as the clinical studies progressively report findings throughout the remainder of this CY and the 1H of CY18



Thank you

