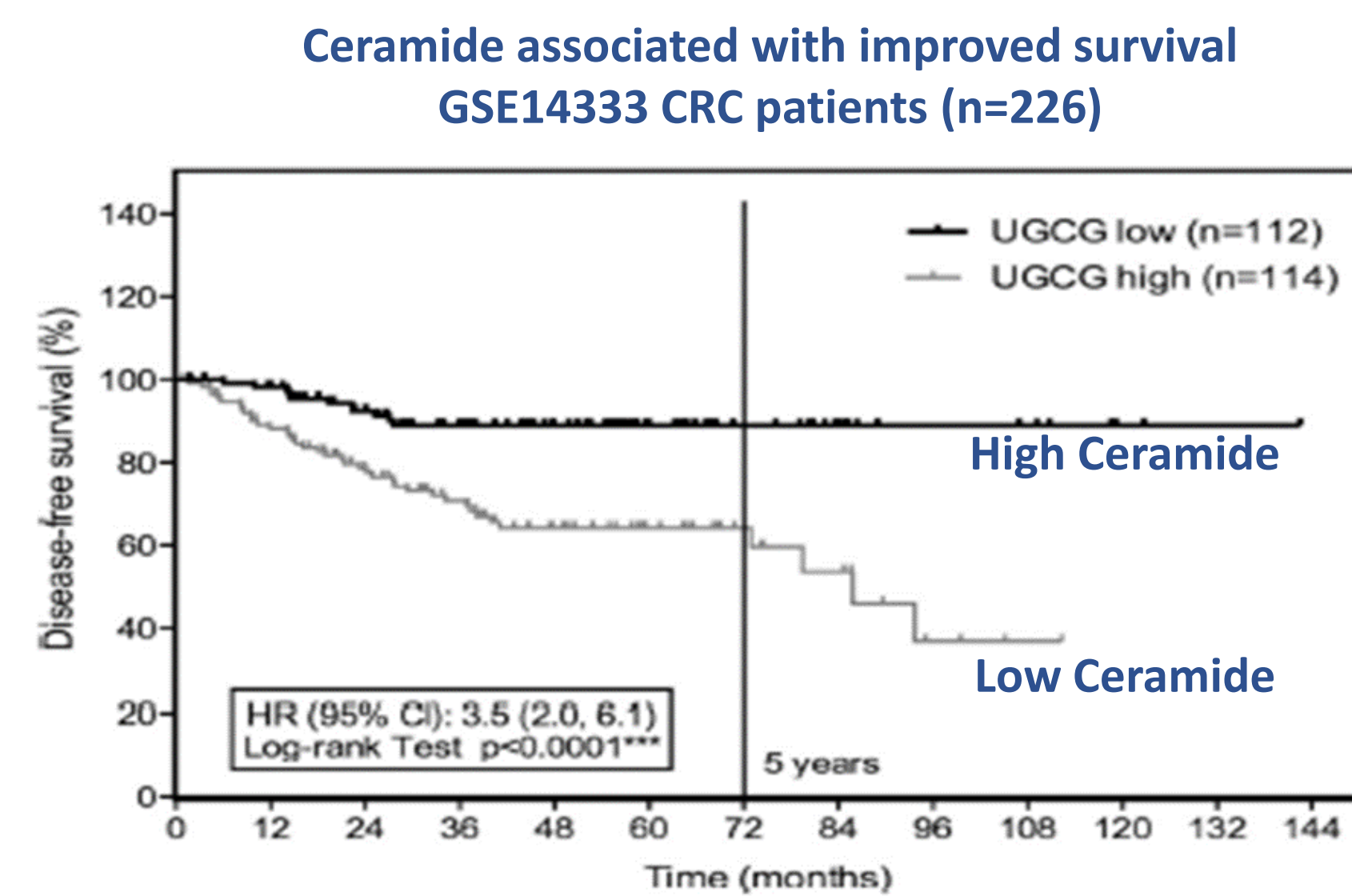


A Phase 1b/2 Study on the Efficacy and Safety of BXQ-350 in Combination with mFOLFOX7 and Bevacizumab in Newly Diagnosed Metastatic Colorectal Carcinoma Patients

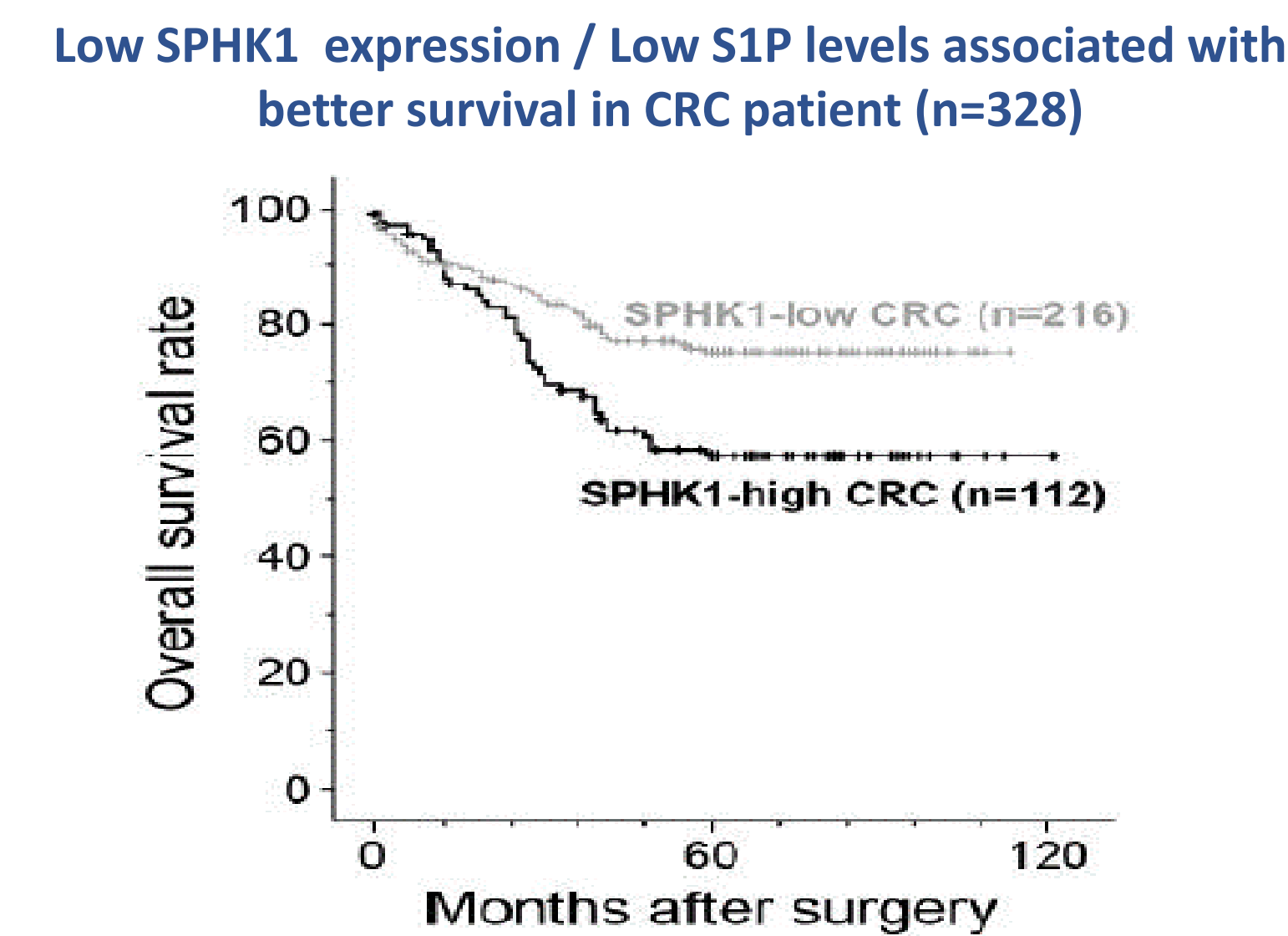
R. Patel¹, D. Flora², F. Lee³, A. Pimentel⁴, J. Gemmill⁵, D. Sohal⁶, V. Sharma⁷, S. Sharif⁸, N. Gabrail⁹, K. Chung¹⁰, J. Villano¹¹, D. Outlaw¹², A. Baron¹³, B. Boulmay¹⁴, G. Tapolsky¹⁵, J. Beach¹⁵, M. Gazda¹⁵, T. Arshad¹⁵

1. Background: Sphingolipids are bioactive signaling molecules implicated in cancer

- **Ceramides** are pro-apoptotic and promote an anti-tumoral immune environment
- **Sphingosine-1-phosphate (S1P)** promotes progression and a pro-tumoral immune environment
- **Several studies have shown elevated ceramide or low S1P levels** are associated with improved survival and better prognosis



Madigan, J. et al. Role of Ceramide in Resistance to Oxaliplatin in Colon Cancer. Exp Cell Res, 2020, March 15, 388.



BAE GE. et al. Increased Sphingosine Kinase 1 Expression Predicts Distant Metastasis and Poor Outcome in Patients with Colorectal Cancer. Anti Cancer Research, 2019, 39:663-670.

Summary

- **BXQ-350 is a novel biologic** and a nanovesicle formulation of Saposin C, an **allosteric activator of enzymes involved in sphingolipid metabolism**
- BXQ-350 modulates sphingolipid metabolism, **lowers Gangliosides, LAcCer, GluCer, S1P and increases ceramide levels**
- BXQ-350 is **well-tolerated and showed signs of single agent activity in multiple tumor types** in patients with solid tumors refractory to standard therapies
- **Addition of BXQ-350 to SoC is well tolerated**
- **BXQ-350 may prevent CIPN**

Other Completed Trials:

- PoC and PK/PD study in cancer patients with established CIPN (NCT05291286)
- Phase 1 study in combination with radiation in pediatric DIPG/Diffuse Midline Glioma patients (NCT04771897)
- Phase 1 study of BXQ-350 in adult patients with advanced Solid Tumors (NCT02859857)

The University of Kentucky, Lexington, KY¹ St Elizabeth Healthcare, Edgewood, KY² University of California, Irvine, CA³ University of Miami, Miami, FL⁴ Stony Brook University Hospital, New York, NY⁵ University of Cincinnati, Cincinnati, OH⁶ University of Louisville, Louisville, KY⁷ PRISMA Health Cancer Institute, Boiling Springs, SC¹⁰ University of Kentucky Markey Cancer Center, Lexington, KY¹¹ University of Alabama at Birmingham, Birmingham, AL¹² Pacific Hematology Oncology, San Francisco, CA¹³ Louisiana State University Health New Orleans, New Orleans, LA¹⁴ Bexion Pharmaceuticals, Covington, KY¹⁵

Acknowledgement: Patients who participated in the trials and their families, clinicians and staff at investigational sites, Bexion's personnel

4. Phase 1b/2 study of BXQ-350 in combination with mFOLFOX7 and Bevacizumab in newly diagnosed mCRC patients

- Safety dose escalation to establish RP2D. Patients started at 1.8 mg/kg BXQ-350 in combination with mFOLFOX7 and Bevacizumab; No MTD, BXQ-350 increased to 2.4 mg/kg which is now the RP2D.
- 30 patient expansion cohort at the RP2D
- **Primary objectives Phase 1b/2:**
 - Select **RP2D** (safety profile, DLTs)
 - **Preliminary efficacy** of the combination based on **ORR (Overall Response Rate), COD (Cumulative Oxaliplatin Dose)**
- **Secondary objectives Phase 1b/2:**
 - Overall safety and tolerability of combination
 - Efficacy of BXQ-350 + mFOLFOX7 & Bevacizumab based on **DCR (Disease Control Rate), OS (Overall Survival), PFS (Progression Free Survival)**
 - **Assess whether BXQ-350 decreases development, intensity or duration of CIPN** based on neuropathy scores from EORTC questionnaires (QLQ-C30 and CIPN20)
- **Exploratory objectives Phase 1b/2:**
 - PD biomarkers; Immuno & sphingolipid profiling
 - Neurofilament light chain (NfL) to monitor CIPN

Current Status:

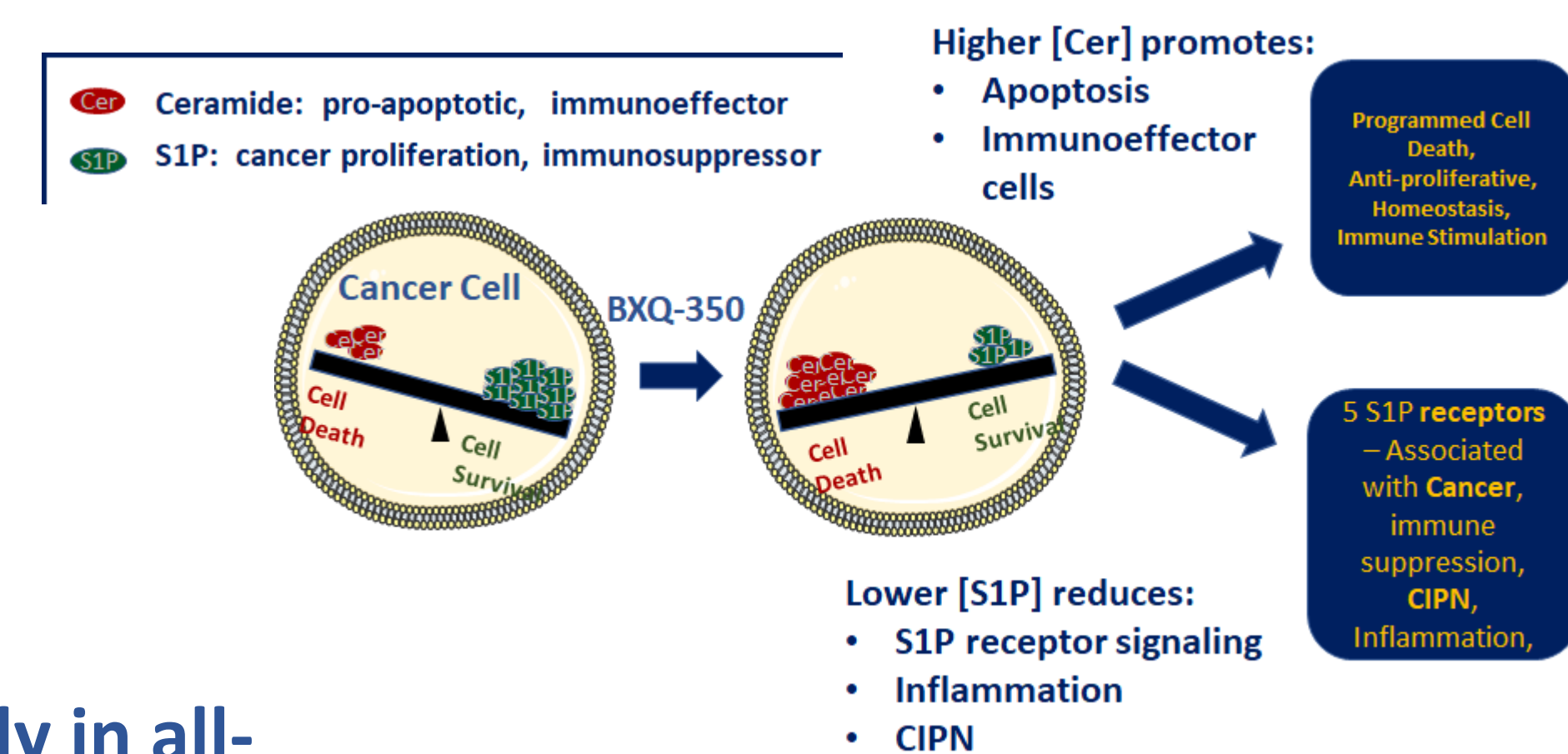
- Enrollment completed and in active follow-up
- A total of 32 evaluable patients enrolled
- 30 patients (94%, all but 2 PD patients) achieved at least 8 cycles of oxaliplatin; 33% achieved at least 12 cycles.
- 94% of patients received > 6 cycles of oxaliplatin which is significantly higher than historical controls, 68% of patients ≥ 6 cycles of oxaliplatin (TRIBE and TRIBE 2 pooled analysis, R. Moretto *et al.*, Eur J Cancer 2025, 115470)
- Disease control rate (DCR) is 94%, ORR is 61% and mPFS is currently 10.6m
- Safety profile for the combination seems better than historical safety data for mFOLFOX7 + Bevacizumab, including CIPN

See Poster Board K2 / Abstract 242 for detailed safety and efficacy analysis
See Poster Board D17 / Abstract 105 for detailed CIPN analysis

For further details, please contact tarshad@bexionpharma.com

2. BXQ-350 is a nanovesicle formulation of Saposin C, an allosteric activator of sphingolipid metabolism

- normalizes dysregulated sphingolipid metabolism, lowering S1P and increasing ceramides levels



3. BXQ-350 was investigated in a Phase 1 study in all-comer cancer patients with recurrent solid malignancies (NCT02859857)

- BXQ-350 was **safe and well-tolerated**
- **17.8% Clinical Benefit Rate (PR, SD)** observed at Cycle 6 across multiple tumor types including CRC, appendiceal, pancreatic and rectal cancers
- **One patient self-reported improvement of pre-existing CIPN symptoms** soon after BXQ-350 administration

