

Port ay CTO-db

The Ray logo is a stylized blue letter 'R' with a grey circular swoosh behind it, positioned between the words 'Port' and 'ay'.

**A Clinical Trial Outcome Meta Database
for Informed Decision Making**

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Cytel Statistical Software & Services
Pvt. Ltd.

Disclaimer

The opinions expressed in this presentation and on the following slides are solely those of the presenter and not necessarily those of Cytel

This presentation uses simulated data for visualization purpose

Agenda

- Meta data & its sources in clinical trial context
- Need for structured database
- Introducing Clinical Trial Outcome database (CTO-db)
- Portraying applications of integrating visualization capabilities of R to CTO-db

Meta data of clinical trials

What?

- Descriptive and inferential statistics of clinical trial data at trial, arm, treatment or subgroup level

About?

- Efficacy and/or safety of interventions, Trial design and subject characters

Meta data of clinical trials

ClinicalTrials.gov
Try our beta test site

IMPORTANT: Listing of a study on this site does not reflect endorsement by the National Institutes of Health. Talk with a trusted healthcare professional before volunteering for a study. Read more...

Find Studies About Clinical Studies Submit Studies Resources About This Site

Home > Find Studies > Search Results > Study Record Detail

Search for studies: Example: "Heart attack" AND "Los Angeles" Advanced Search | Help | Studies by Topic | Glossary

Text Size

Trail record 1 of 156 for: Studies With Results | Interventional Studies | Schizophrenia | PANSS
Previous Study | Return to List | Next Study

Phase IIA Study in Patients With Schizophrenia

This study has been completed.

ClinicalTrials.gov Identifier: NCT00686998

Sponsor: AstraZeneca

First received: May 20, 2006
Last updated: March 20, 2013
Last verified: March 2013
History of Changes

Study provided by (Responsible Party): AstraZeneca

Full Text View Tabular View Study Results Disclaimer How to Read

Study Type:	Interventional
Study Design:	Allocation: Randomized; Intervention Model: Parallel; Outcome Measures: [Not Specified]; Primary Outcome: [Not Specified]; Secondary Outcome: [Not Specified]; Other: [Not Specified]
Condition:	Schizophrenia
Interventions:	Drug: A202024 Drug: Olanzapine Drug: Placebo

833-P

Leadership for Healthy Lifestyle (LHL) Pilot Intervention: BMI and Fitness Outcomes

DEBORAH YOUNG-KYMAH, HELEN BLOOMER-ADAMS, MARIE VERMA, Aquinas, GA

LHL is a 16 week after school intervention teaching middle school youth leadership skills in the areas of nutrition, fitness, critical thinking & problem-solving. Sessions contain 45 minutes of focus on improving personal best performance in strength, flexibility and cardiovascular fitness. Among other activities, youth practice leadership skills by rotating leadership during the fitness activities which are supervised by a certified fitness coach. Youth also choose weekly outdoor activities to improve fitness.

Of the 39 students (19-14, 50% AA, 54% T) completing baseline (BL), 34 completed final (F) evaluations (87% retention). Mean attendance = 9.5/100 sessions (range 2-15). Youth were weighed, measured, completed the SF and Reach (Flexibility) and Harvard Step Test (heart rate) had not measured via calipers.

Mean age and gender CDC BMI remained stable over 16 wks (57.7 vs. 72.5, $p=1.85$, $p=0.38$). Triceps and subscapular fat decreased slightly in the expected direction (23.8 vs. 21.8mm, $p=0.35$, $p=0.22$; 23.1 vs. 20.5mm, $p=0.35$, $p=0.20$). Ending heart rate decreased slightly from 8 to 6 (103 vs. 98, $p=0.26$, $p=0.20$). Flexibility significantly improved from 8 to 6 (103 vs. 21 inches, $p=0.25$, $p=0.20$). This school-based empowerment approach yielded small but encouraging improvements in fitness and fitness, demonstrating acceptable attendance and a high rate of retention. Highly structured non-sports team interventions that teach leadership as well as fitness skills may allow weight gain in this age group and improve cardiovascular health. Such programs need to be tested in other middle schools to further establish feasibility and efficacy. Larger intervention periods could be expected to improve health outcomes. Supported by Georgia Regents University

833-P

Executive Dysfunction in Type 2 Diabetes: The Role of High Blood Pressure and Body Mass Index

MIGUEL-ANGEL J. JARA, OLIVIERA A. KLEIN, Chicago, IL

This study determines whether that play a role in executive dysfunction in patients with Type 2 diabetes. This cross-sectional study uses data from a neuroimaging study focused on depression and diabetes. Data was collected from 47 healthy control (HC) and 63 subjects with Type 2 diabetes (T2D). To measure cognitive, neuropsychological tests were administered. Tests were calculated into scores and analyzed by SPSS through t-tests, chi-square, and ANOVA. Compared to HC, T2D had significantly worse cognitive scores (HC: 0.6781 $\pm$ 0.5702, T2D: -0.4639 $\pm$ 0.8946, $p<0.001$). No demographic differences existed other than age. HC had higher scores even after controlling for age ($p<0.001$).

As expected, T2D had higher hemoglobin A1c ($p<0.001$). In addition, T2D had higher systolic blood pressure (SBP) ($p<0.001$), HDL cholesterol ($p<0.001$), C-reactive protein ($p<0.001$), and triglycerides ($p<0.001$). When controlled individually, executive function scores between groups were still significantly different, but when controlling for both BMI and SBP were the scores statistically similar ($p=0.05$).

In line with literature, Type 2 diabetes is associated with executive dysfunction. This impairment is most likely related to hypertension and obesity in these patients. These results indicate that proper management of these risk factors may mitigate cognitive impairment associated with type 2 diabetes.

Supported by NIMH

CLINICAL THERAPEUTICS/NEW TECHNOLOGY—GLUCOSE MONITORING AND SENSING

Guided Audio Tour: Advances in Glucose Monitoring (Phase 2) P-833-P

Guided Audio Tour: Advances in Glucose Monitoring (Phase 2) P-833-P

A Randomized Trial on Home Telemonitoring for the Management of Metabolic and Cardiovascular Risk in Patients with Type 2 Diabetes

ANTONIO NEDJALIC, STAVANIA CIRIOCHI, ALBERTO CHIARI, MARINO MASICA, GIANFRANCO GARGIULO, Sesto Mare Italy, Italy, Italy, Italy, Italy, Italy

The opportunity to utilize telemedicine systems combining home monitoring with remote educational interventions promoting self-care and treatment compliance represents an appealing innovation. The primary aim of this randomized trial was to evaluate whether a home telehealth system (HTS) enabling the patient to monitor body weight, blood glucose values and blood pressure values, associated with remote educational support and feedback to the general practitioner, can improve metabolic control and overall cardiovascular risk in individuals with T2DM, as compared to usual practice.

Overall, 25 general practitioners enrolled 300 patients, of whom 153 were assigned to the HTS group (14 received intervention) and 149 to the control group (132 received intervention). Over a period of 12 months, the use of HTS was associated with a statistically significant reduction in HbA1c levels as compared to the control group (baseline mean difference 0.33 $\pm$ 0.01, $p=0.001$). No difference emerged as for body weight, blood pressure, and lipid profile. The proportion of patients reaching the target of HbA1c $<7.0\%$ was higher in the HTS group after 4 (23.6% vs. 10.7% $p=0.008$) and 12 months (28.1% vs. 16.3% $p=0.07$). In terms of quality of life, as measured with the SF-36 Health Survey, between group comparisons showed significant differences in favor of the HTS group in physical functioning ($p=0.001$), role limitations due to emotional problems ($p=0.001$), mental health ($p=0.001$), and mental component summary score ($p=0.001$). As for resource utilization, the two groups did not significantly differ in terms of hospital admissions and home visits, while a lower number of specialist visits was reported in the telemedicine group (incidence rate ratio 0.72; 95%CI 0.51-1.07; $p=0.006$). In conclusion, the use of HTS was associated with better metabolic control and quality of life and fewer resource utilization. No impact was documented on blood pressure, lipid profile and body weight.

Supported by AstraZeneca & Johnson & Johnson

ORIGINAL INVESTIGATION

Efficacy and safety of monotherapy with the novel sodium/glucose cotransporter-2 inhibitor tofogliflozin in Japanese patients with type 2 diabetes mellitus: a combined Phase 2 and 3 randomized, placebo-controlled, double-blind, parallel-group comparative study

Kohji Kaku¹, Hiroaki Watanabe², Yasuhiko Iwamoto³, Kazunori Utsunomiya⁴, Yasuo Terauchi⁵, Kazuyuki Tobe⁶, Yukio Tanizawa⁷, Eiichi Araki⁸, Masamichi Ueda⁹, Hideki Suganami¹⁰ and Daisuke Watanabe¹¹ for The Tofogliflozin 003 Study Group

Abstract

Background: In recent years, several oral antidiabetic drugs with new mechanisms of action have become available, expanding the number of treatment options. Sodium/glucose cotransporter-2 (SGLT2) inhibitors are a new class of oral antidiabetic drugs with an insulin-independent mechanism promoting urinary glucose excretion. We report the results of a combined Phase 2 and 3 clinical study (Japic CT-101349) of the SGLT2 inhibitor tofogliflozin (TSG452, RG2701) in Japanese patients with type 2 diabetes mellitus.

Methods: The efficacy and safety of tofogliflozin were assessed in this multicenter, placebo-controlled, randomized, double-blind parallel-group study involving 230 patients with type 2 diabetes mellitus with inadequate glycemic control on oral antidiabetic therapy. Between 30 October 2010 and 28 February 2012, patients at 33 centers were randomized to either placebo (n = 56) or tofogliflozin (10, 20, or 40 mg; n = 58 each) orally, once daily for 24 weeks. The primary efficacy endpoint was the change from baseline in HbA_{1c} at week 24.

Results: Overall, 229 patients were included in the full analysis set (placebo: n = 56; tofogliflozin 10 mg: n = 57; tofogliflozin 20 mg: n = 58 each). The least squares (LS) mean change (95% confidence interval) from baseline in HbA_{1c} at week 24 was -0.028% (-0.192 to 0.137) in the placebo group, compared with -0.797% (-0.960 to -0.634) in the tofogliflozin 10 mg group, -1.017% (-1.178 to -0.856) in the tofogliflozin 20 mg group, and -0.870% (-1.031 to -0.709) in the tofogliflozin 40 mg group ($p < 0.0001$ for the LS mean differences in all tofogliflozin groups vs placebo). There were also prominent decreases in fasting blood glucose, 2-h postprandial glucose, and body weight in all tofogliflozin groups compared with the placebo group. The main adverse events were hyperkalemia, ketonuria, and polyuria. The incidence of hypoglycemia was low. Furthermore, most adverse events were classified as mild or moderate in severity.

(Continued on next page)

Product Approval Information Summary Basis of Approval OCTAGAM® 5%

I. General Information

Licensed Product Name: Immune Globulin Intravenous (Human) 5%

Proprietary Product Name: OCTAGAM®

Other Name: n.s.

Name and Address of Sponsor: OCTAPHARMA Pharmaceuticals, Inc. B. Oberlander Strasse 235 A-1100 Vienna, Austria

Biologics License Application (BLA) Tracking Number: STN 125062

Date of Submission: June 14, 2002

Date of Filing: August 14, 2002

Review Designation:

Date of License:

II. Indications for Use

OCTAGAM, a liquid, room temperature stable IgIV, is indicated for the treatment of primary immune deficient diseases such as: congenital agammaglobulinemia and hypogammaglobulinemia, common variable immunodeficiency, Wiskott-Aldrich

Effectiveness of GLP-1 analogues compared to DPP-4 inhibitors for beta cell function and diabetes related complications among adults with type 2 diabetes: a systematic review and meta-analysis

Susan Belman^{1,2}, Jerald Campbell¹ and Edoardo Armatto¹
1 MCRIS candidate, 2 Jerald Campbell, Faculty of Health Sciences, The University of Adelaide, SA 5005

Abstract

Background: The aim of this study was to determine the effectiveness of GLP-1 analogues compared to DPP-4 inhibitors for beta cell function and diabetes related complications among adults with type 2 diabetes. A systematic review and meta-analysis was conducted.

Methods: A search of the literature was conducted using the following keywords: GLP-1, DPP-4, type 2 diabetes, beta cell function, and diabetes related complications. The search was limited to English language articles published between 1990 and 2010. The search was conducted in the following databases: Medline, Embase, and Cochrane.

Results: A total of 10 studies were included in the meta-analysis. The pooled mean difference for HbA1c was -0.12% (95% CI -0.22 to -0.02). The pooled mean difference for fasting glucose was -0.12 mmol/L (95% CI -0.22 to -0.02). The pooled mean difference for postprandial glucose was -0.12 mmol/L (95% CI -0.22 to -0.02). The pooled mean difference for HOMA-IR was -0.12 (95% CI -0.22 to -0.02).

Conclusion: The results of this meta-analysis suggest that GLP-1 analogues are more effective than DPP-4 inhibitors for beta cell function and diabetes related complications among adults with type 2 diabetes.

Need for structured database

- To make data user friendly
- To be able to filter out to the level of requirement
- Will be a one stop as source of truth

Structure of CTO-db

- Levels of data
 - Source, Trial, Arms, Treatments, Demographics & Assessments (Efficacy/Safety)
- Quality is guided by
 - Efficient process of data extraction & QC
 - Therapeutic area expertise
 - Knowledge of statistics

Strengths of CTO-db

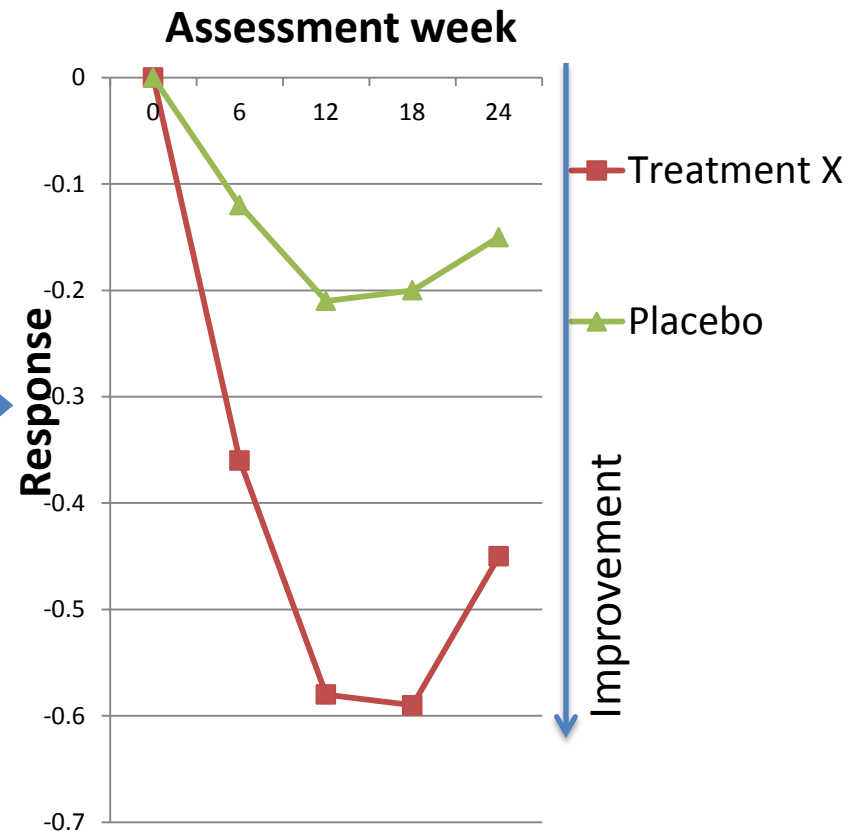
- Robust structure
- Individual level data can also be appended
- Comprehensive data coverage
- Reproducible and high quality outputs
- Scalable to user requirements

Applications of CTO-db

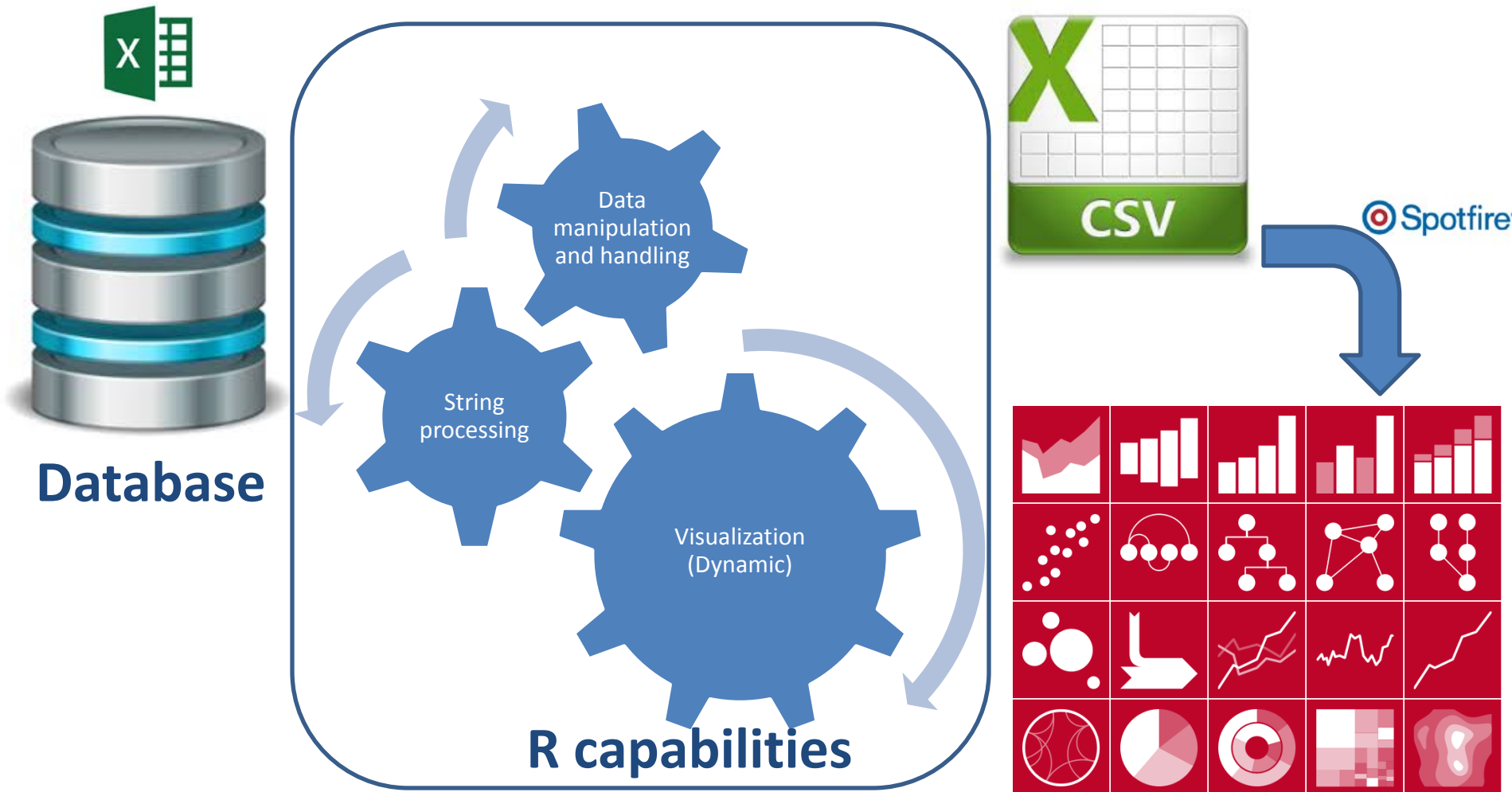
- Broader understanding of therapy area
- Trends in clinical research
- Competitive advantage
- Input for trial planning
- Active/Placebo response

Structured database Vs Visualization

Assessment Time (week)	Treatment	Response
0	Treatment X	0
6	Treatment X	-0.36
12	Treatment X	-0.58
18	Treatment X	-0.59
24	Treatment X	-0.45
0	Placebo	0
6	Placebo	-0.12
12	Placebo	-0.21
18	Placebo	-0.2
24	Placebo	-0.15



Integrating R capabilities to CTO-db



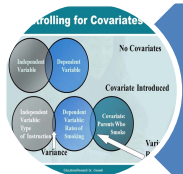
Visual Aggregate Analysis



Understanding Dataset



Identifying underlying trends and patterns



Identifying potential covariates for model based meta-analysis (MBMA)



Identifying possible correlations between covariates

Correlations between covariates



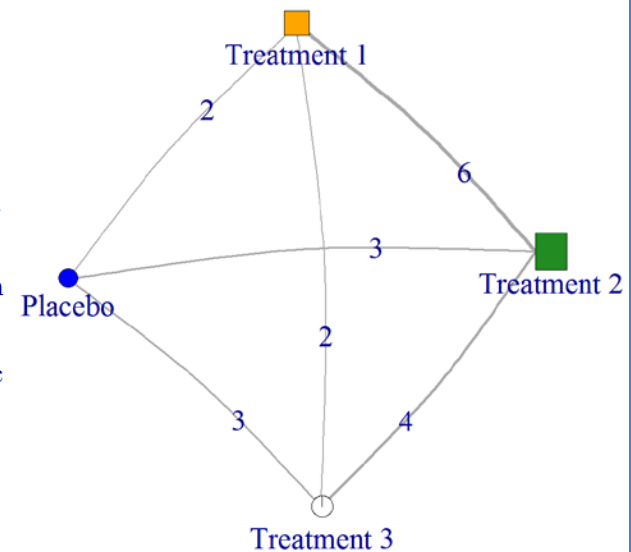
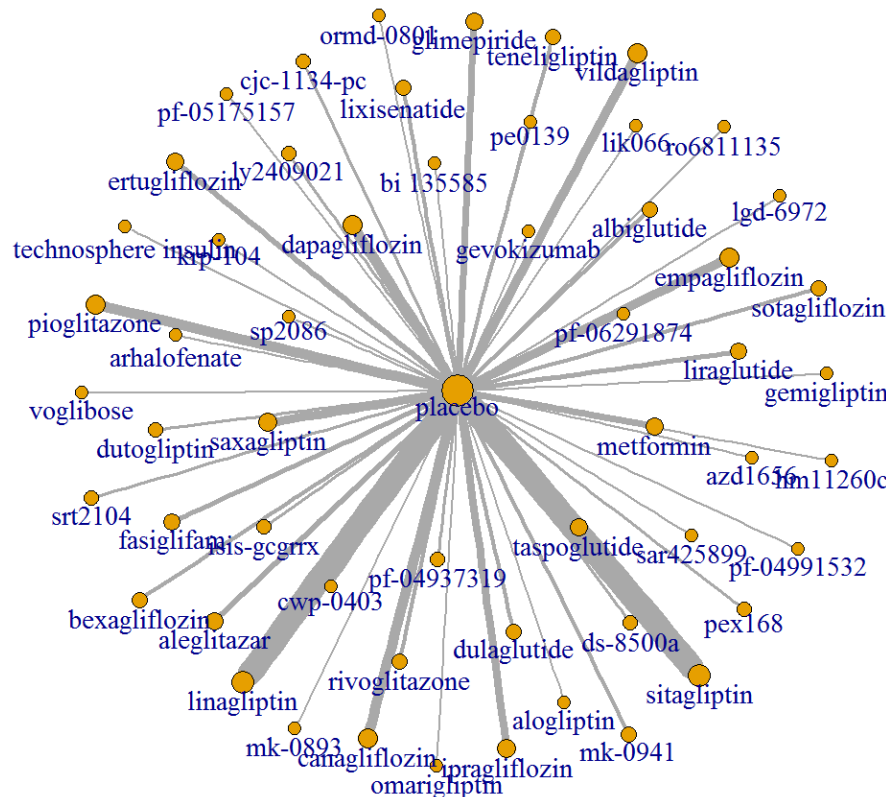
Portraying applications

Understanding Dataset

Identifying underlying trends and patterns

Identifying potential covariates for MBMA

Correlations between covariates



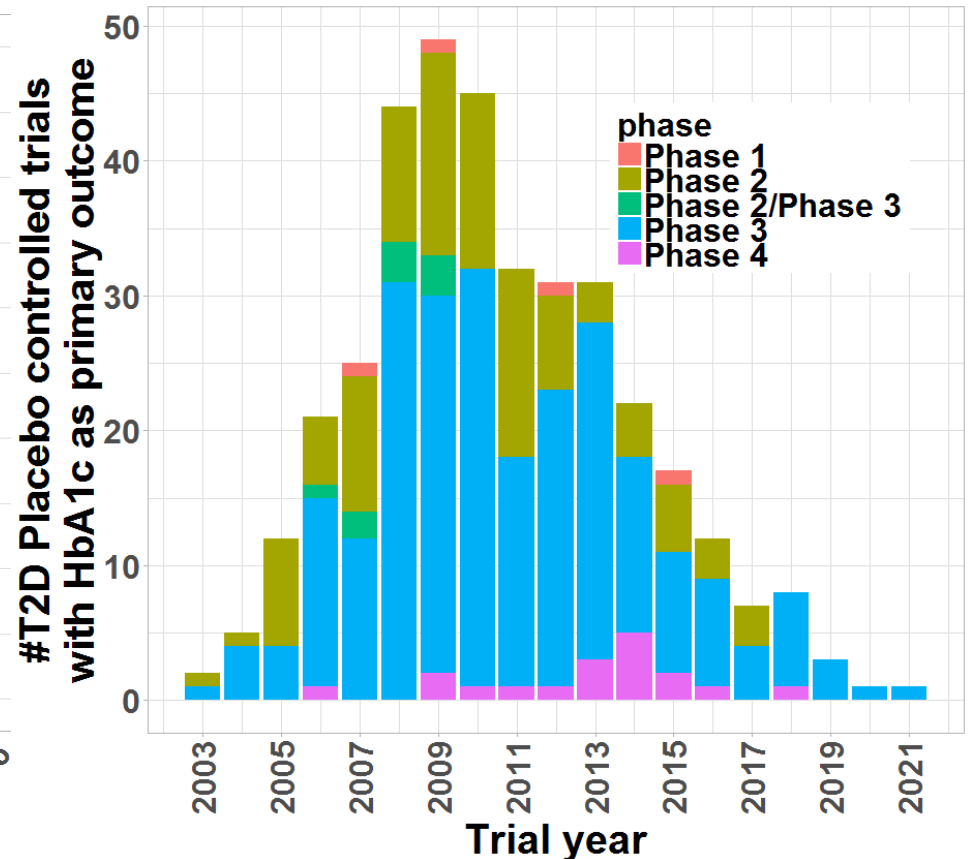
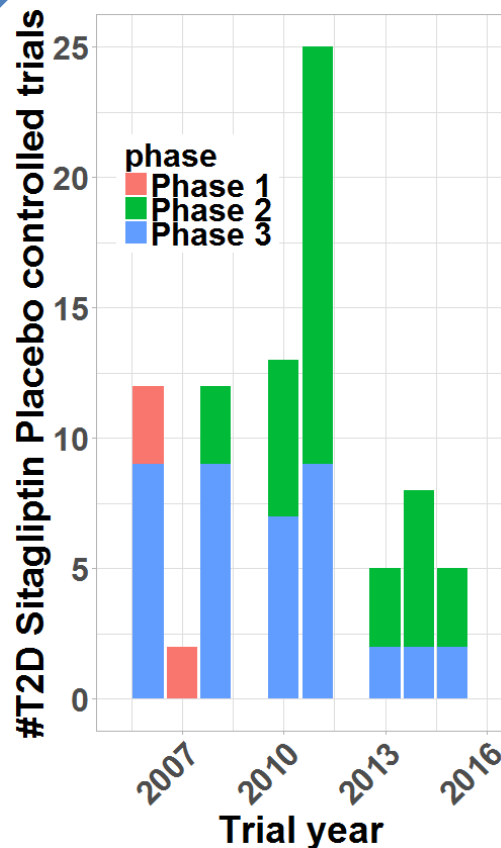
Portraying applications

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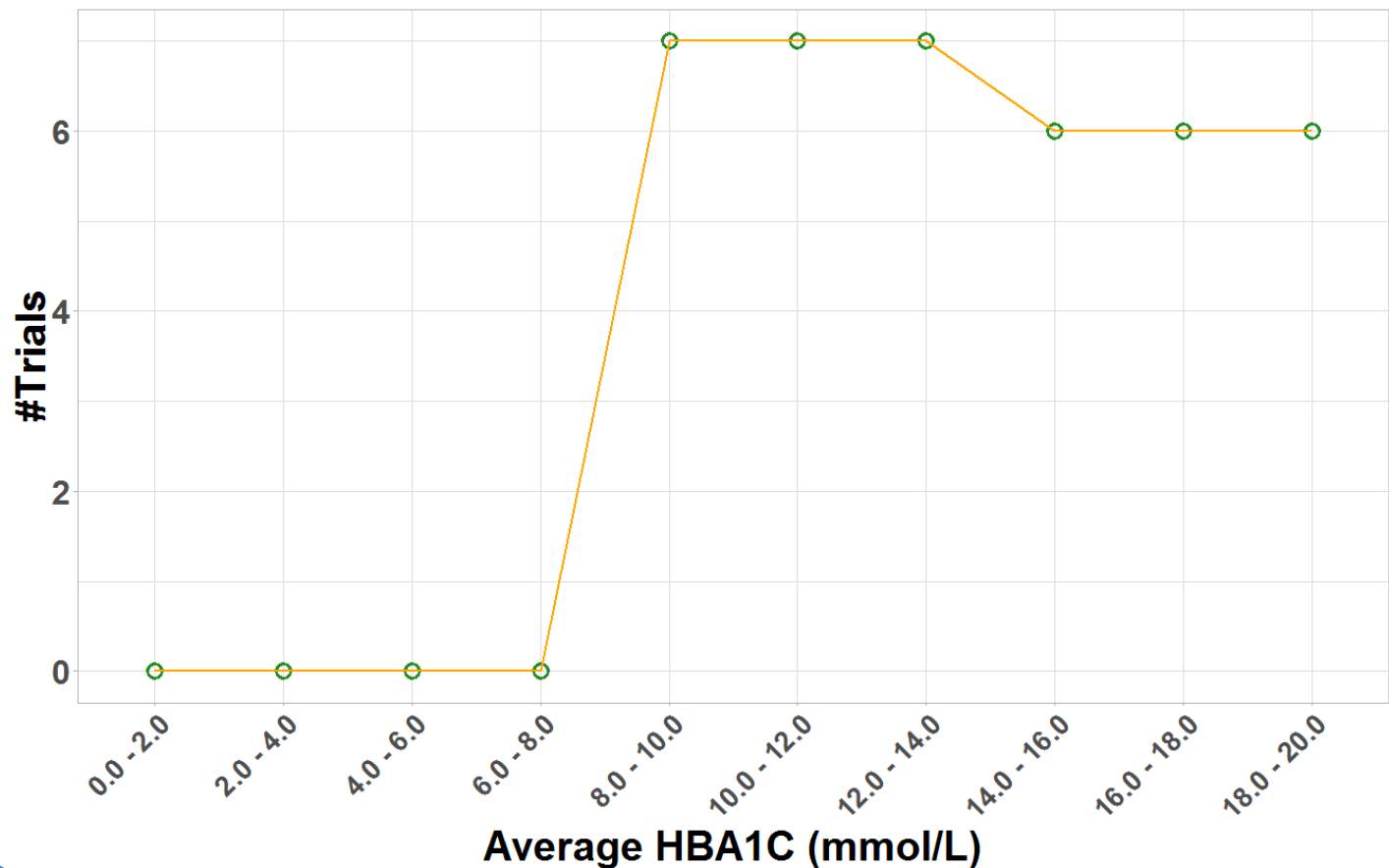
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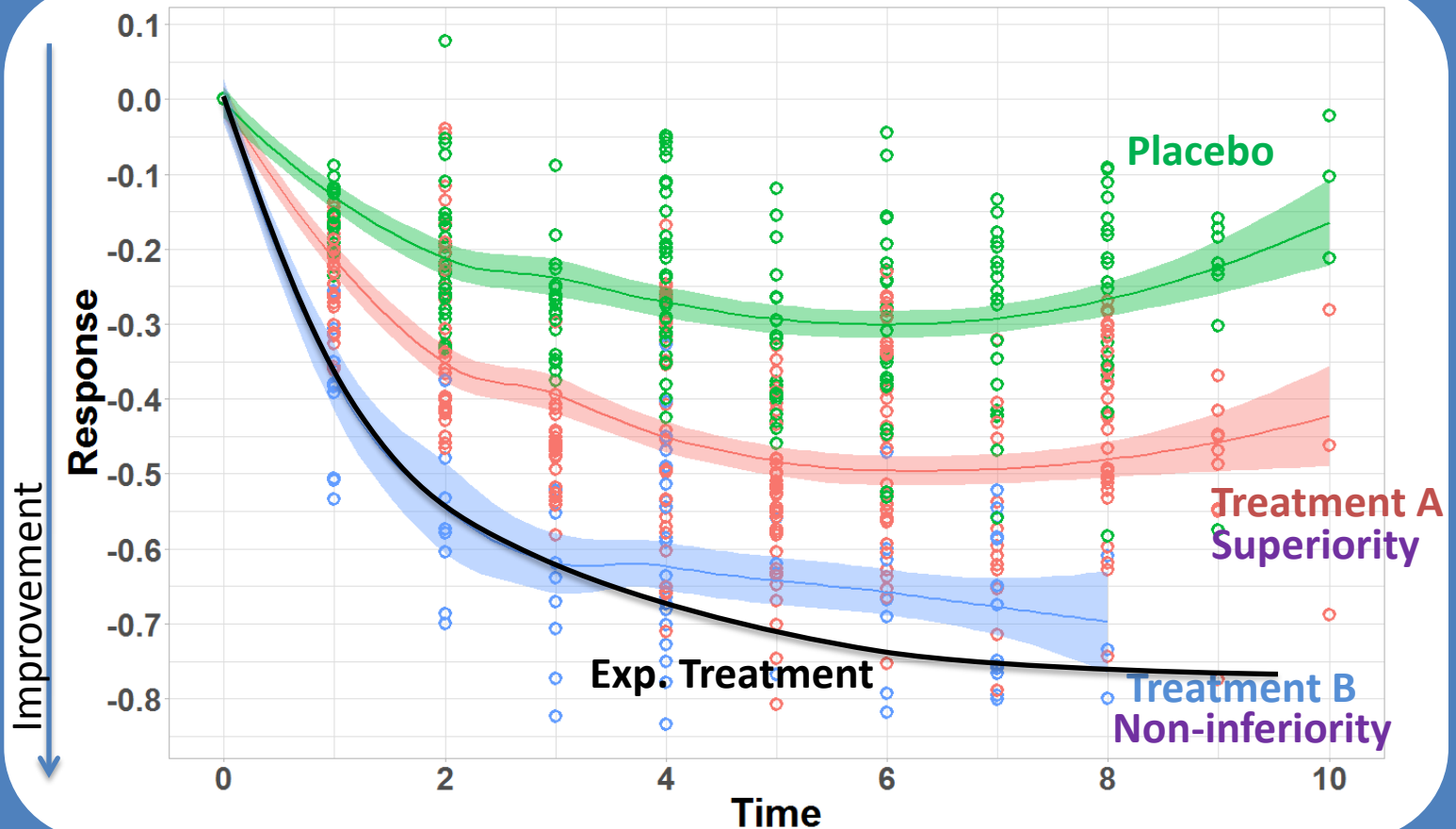
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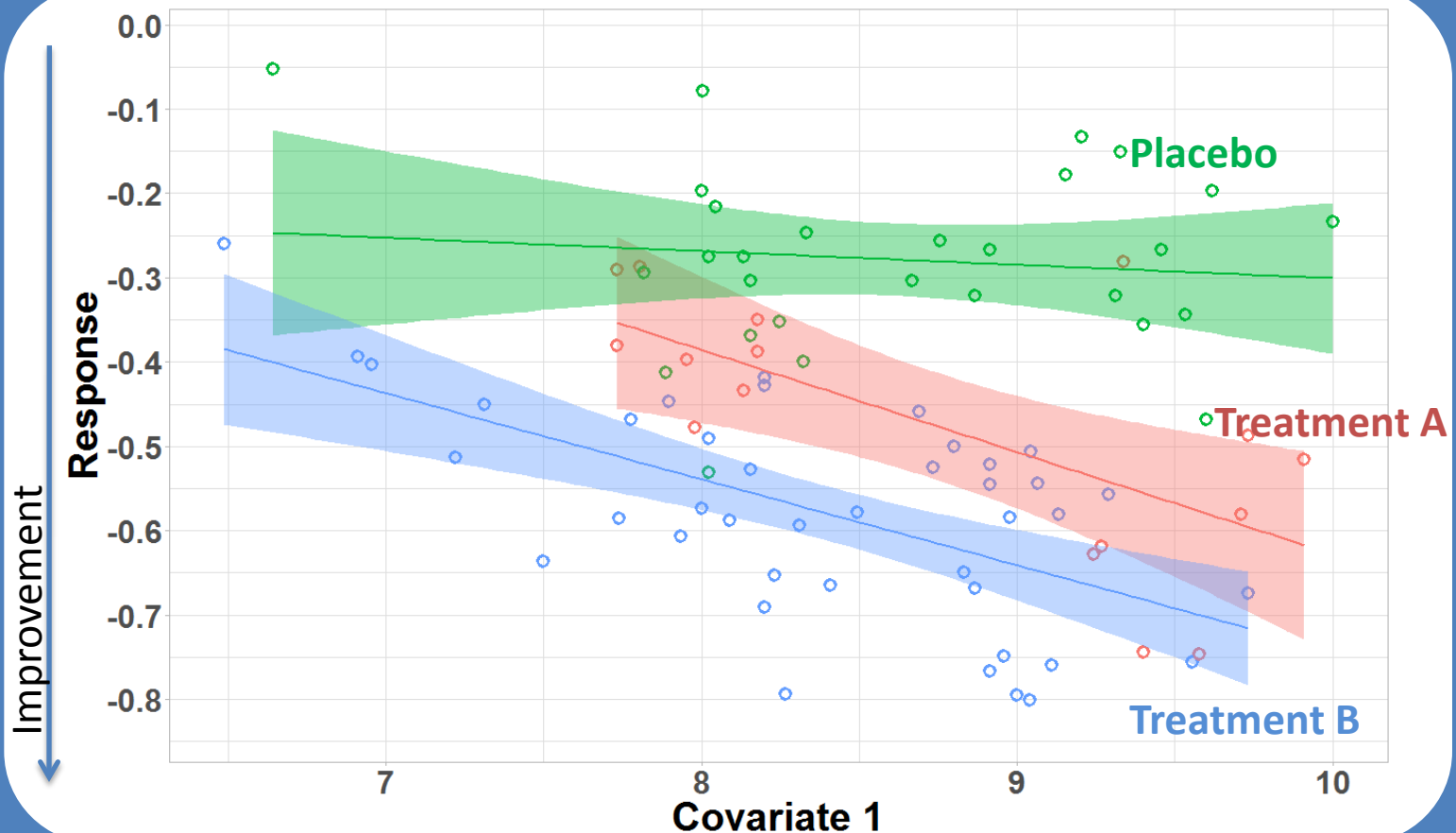
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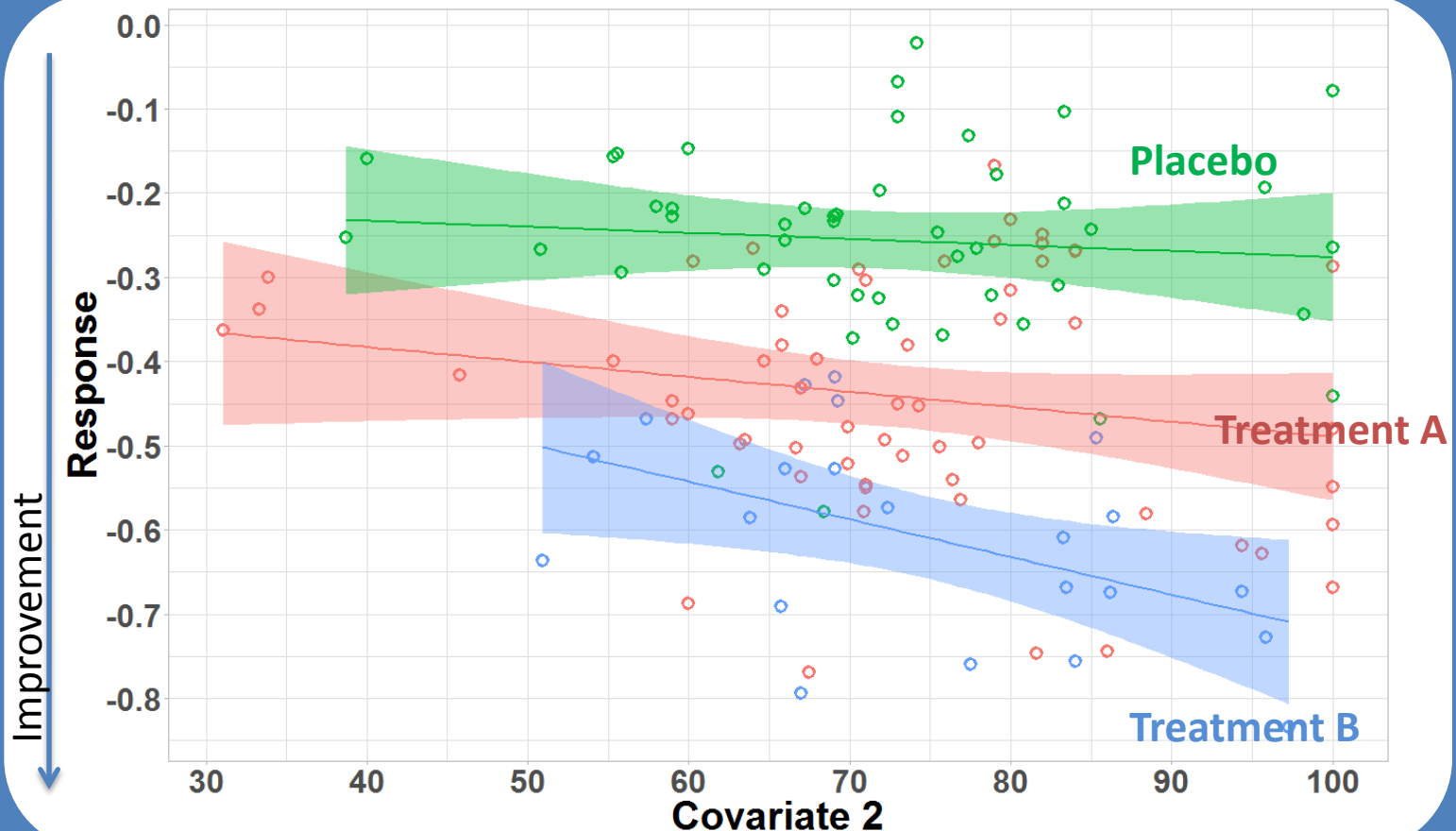
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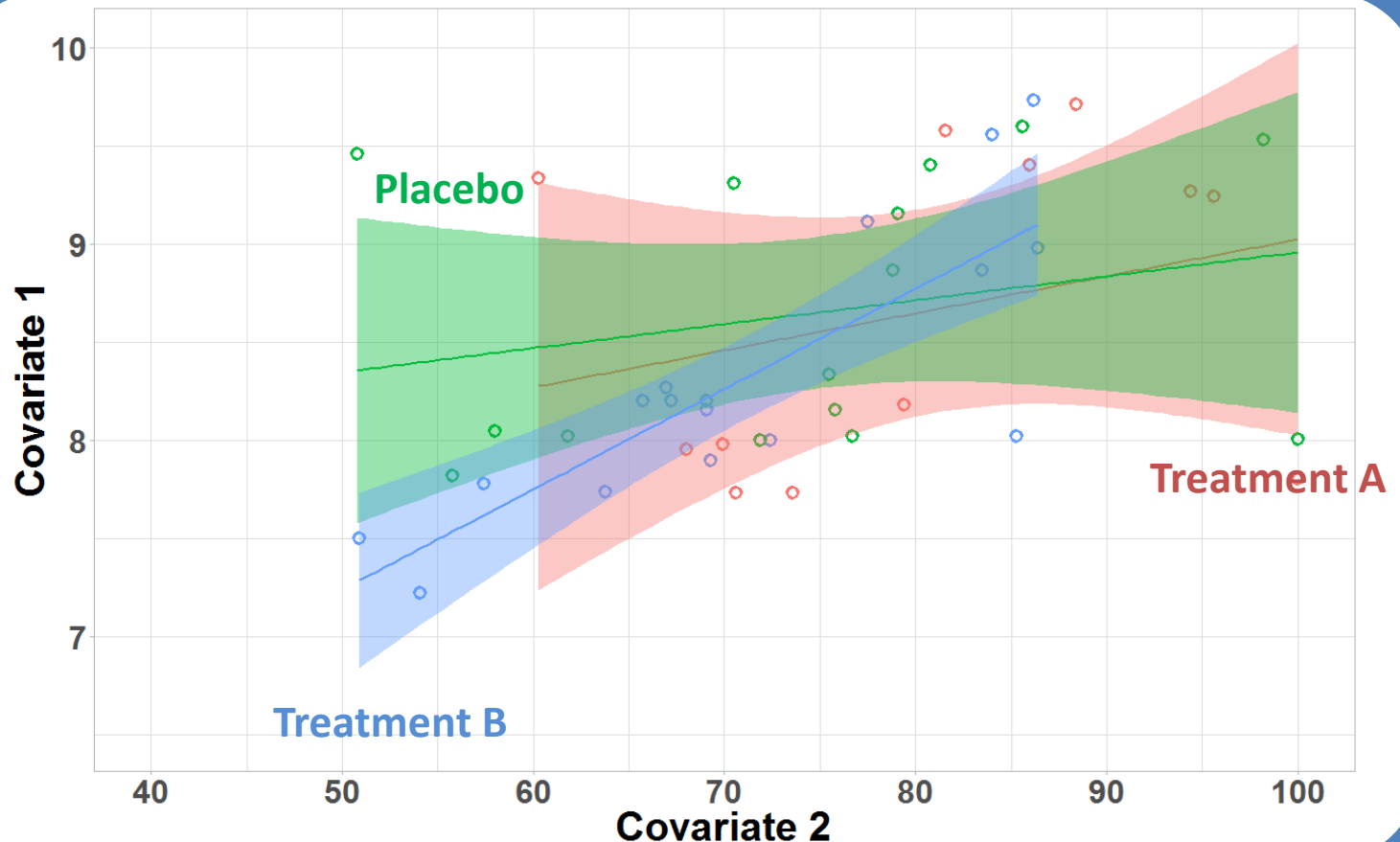
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Thank you

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