TD-1211 Demonstrates Improvement in Bowel Movement Frequency and Bristol Stool Scores in a Phase 2b Study of Patients with Opioid-Induced Constipation (OIC)

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Disclosures

- Dr. Canafax is an employee of Theravance, Inc.
- Theravance, Inc., is investigating TD-1211 as a potential new treatment option for OIC

TD-1211 for Opioid-Induced Constipation

- Theravance-discovered, multivalent, µ-opioid receptor neutral antagonist
- Peripherally selective
- Designed to normalize bowel movement frequency and quality
- Once daily oral dosing

Phase 2b Study 0084 Design

- Randomized, double-blind, placebo-controlled study
- TD-1211 doses: 5, 10, 15 mg, or placebo, once daily
- Study duration: 5-weeks treatment
 - Initiation with 5 mg TD-1211 or placebo once daily for 4 days
- Non-cancer pain patients with chronic OIC
 - ◆ ≤5 SBMs during a 2-week baseline period, and
 - ◆ ≥1 additional symptom of constipation for ≥25% of bowel movements
- Chronic opioid use
 - Total daily dose of ≥30 mg morphine equivalent units
 - Stable opioid regimen ≥14 days
- Protocol-permitted rescue laxative

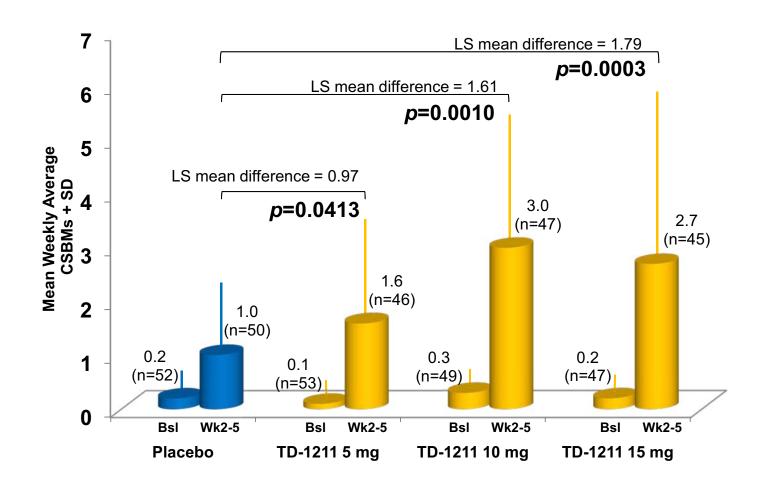
Patient Demographics

Baseline characteristics similar across all treatment groups

| Patients randomized | 217 |
|---|----------------|
| Mean age, yrs (range) | 49 (21–65) |
| % female | 59% |
| Mean duration of OIC, years ± SD | 6.0 ± 5.6 |
| Mean baseline SBMs/week | 1.1–1.2 |
| Mean opioid dose, MEU (range) | 145 (30–1740) |
| Most common reason for chronic opioid use | Back pain, 43% |

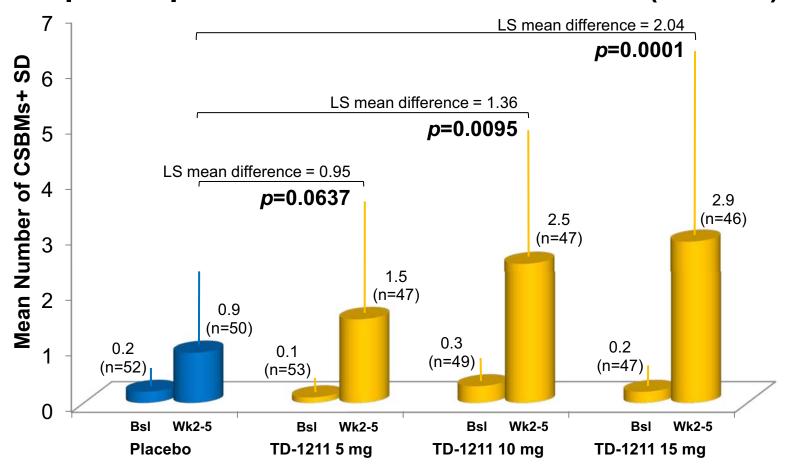
Primary Endpoint - Change From Baseline in Average Weekly CSBMs Over Weeks 2 to 5 of Treatment

Complete Spontaneous Bowel Movements (CSBMs)



Change From Baseline in Weekly CSBMs During Week 5 of Treatment

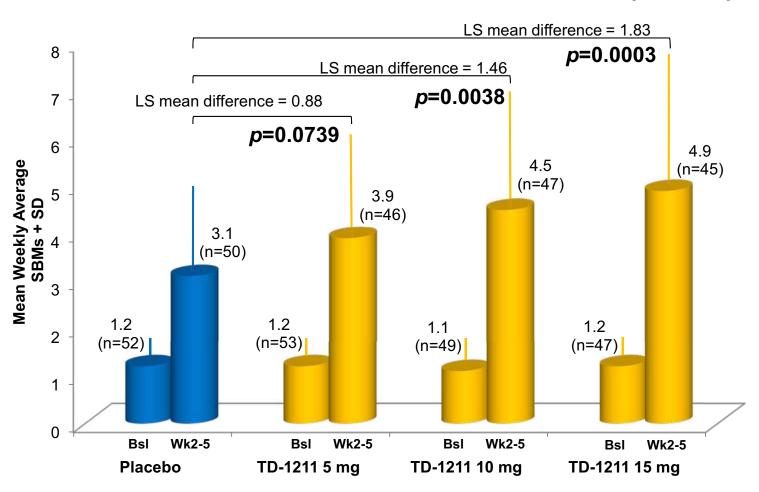
Complete Spontaneous Bowel Movements (CSBMs)



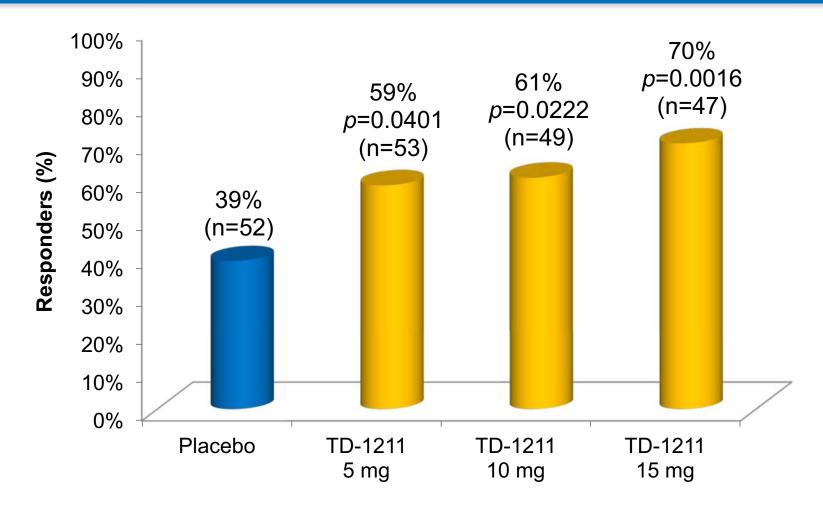
Durable response observed through Week 5

Change From Baseline in Average Weekly SBMs Over Weeks 2 to 5 of Treatment

Spontaneous Bowel Movements (SBMs)

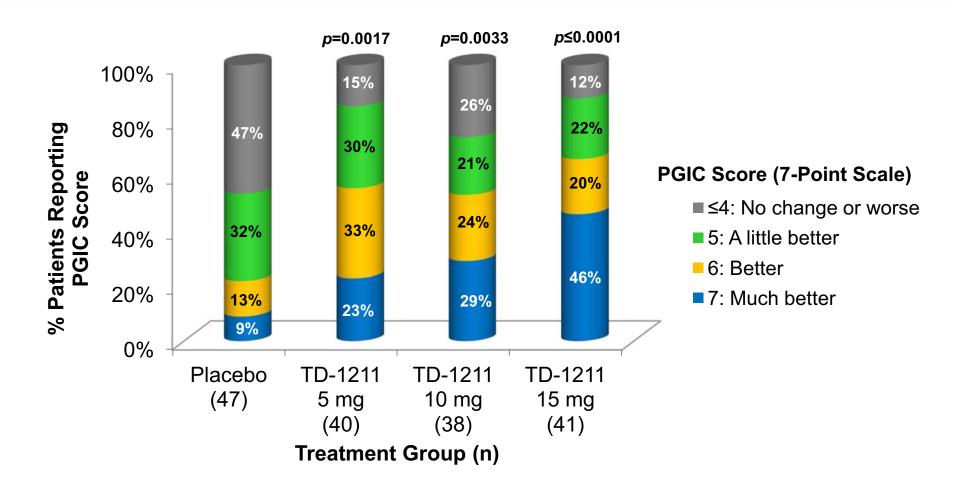


Pre-Specified Responder Analysis



Responder definition: ≥3 SBMs per week and an increase of at least 1 SBM per week from baseline for ≥3 weeks over Weeks 2 to 5

Patient's Global Impression of Change in Constipation



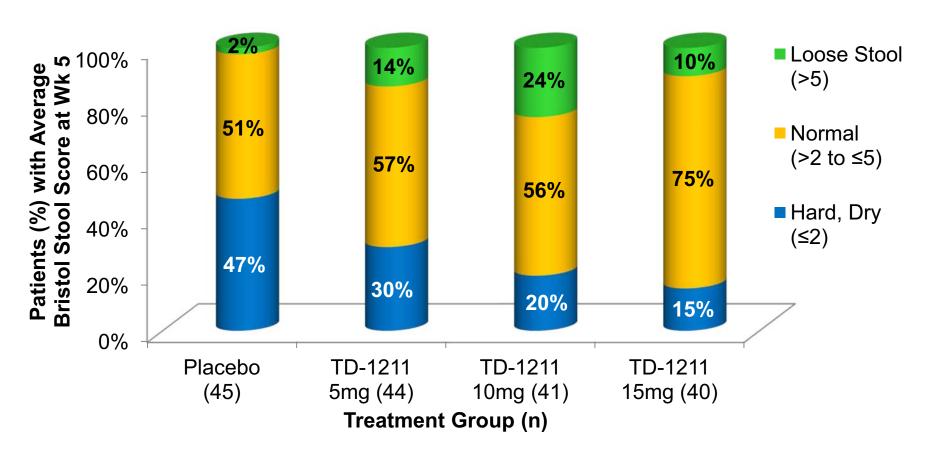
End of Treatment response to: "Since the end of the 2-week qualification period and before the first dose of study medication, how would you describe the change in your constipation?"

Time to First Bowel Movement

| i alicito, ii (/u/ | Patients, n | (%) |) |
|---------------------|-------------|-----|---|
|---------------------|-------------|-----|---|

| | Placebo n=52 | TD-1211 Combined n=149 | | | | | |
|--|-----------------|---------------------------|--|--|--|--|--|
| Number of patients with at least one SBM within: | | | | | | | |
| 4 hours | 5 (10) | 56 (38) | | | | | |
| 8 hours | 9 (17) | 77 (52) | | | | | |
| 16 hours | 17 (33) | 87 (58) | | | | | |
| 24 hours | 30 (58) | 99 (66) | | | | | |
| 48 hours | 39 (75) | 124 (83) | | | | | |

Bristol Stool Scale Scores for SBMs at End of Treatment (Week 5)



 Patients with average BSS scores at baseline among treatment groups: 54-67% hard, dry and 29-43% normal

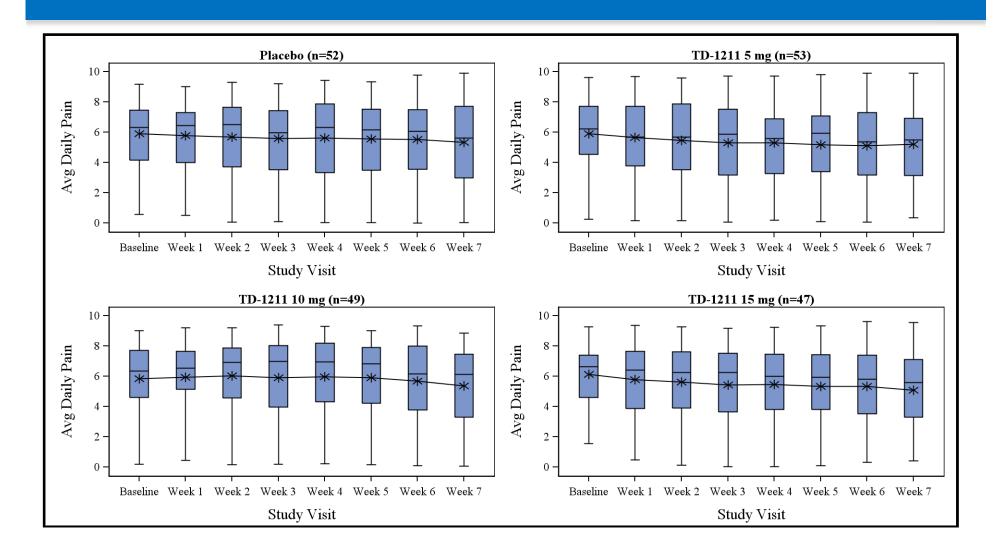
Overall TEAEs Similar Between TD-1211 and Placebo, with GI TEAEs Predominant

Patients, n (%)

| | | TD-1211 Dose Group | | | All |
|---|-----------------|--------------------|---------------|---------------|------------------|
| Safety Population | Placebo n=54 | 5 mg n=56 | 10 mg n=53 | 15 mg n=52 | TD-1211 n=161 |
| Any TEAE | 24 (44) | 22 (39) | 29 (55) | 22 (42) | 73 (45) |
| GI disorders (occurring in ≥2 patients) | 11 (20) | 13 (23) | 15 (28) | 14 (27) | 42 (26) |
| Abdominal pain | 6 (11) | 7 (13) | 6 (11) | 8 (15) | 21 (13) |
| Abdominal pain upper | 1 (2) | 2 (4) | 3 (6) | 2 (4) | 7 (4) |
| Diarrhea | 0 | 4 (7) | 6 (11) | 4 (8) | 14 (9) |
| Flatulence | 3 (6) | 1 (2) | 2 (4) | 1 (2) | 4 (3) |
| Nausea | 2 (4) | 4 (7) | 8 (15) | 3 (6) | 15 (9) |
| Vomiting | 1 (2) | 4 (7) | 1 (2) | 0 | 5 (3) |

 A majority of treatment-related GI adverse events were associated with initiation of treatment, resolved within a few days, and were mild or moderate

Average Daily Pain Scores (0-10 scale) Per Week



Summary of Study 0084

- TD-1211 was generally well tolerated
- No clinically significant laboratory, ECG, or vital sign abnormalities
- No treatment-related SAEs
- No evidence of CNS penetration, interference with analgesia, or central withdrawal
- Majority of patients reported their constipation was better or much better on treatment
- Clinically meaningful response to treatment