

Supplementary Materials

Table S1 Study assessments

	Pretreatment		Treatment					Follow-up (4 wks)
	Screening	Placebo run-in (3–6 wks)	Day 1	Week 2	Week 4	Week 8	Week 12	
Visit	1	2	3	4	5	6	7	8
Demography, baseline characteristics	X							
Patient diary (PBAC and NRS)	←—————→							
Transvaginal ultrasound scan	X		X	X	X	X	X	
Hemoglobin	X	X	X		X	X	X	X
UFS-QOL			X		X	X	X	
Pharmacodynamic measures ^a			X	X	X	X	X	X
Menstruation recovery								X
AEs	X	X	X	X	X	X	X	X
Vital signs, weight	X	X	X		X	X	X	X
Physical examination	X	X	X	X	X	X	X	X
Clinical laboratory tests ^b	X	X	X		X	X	X	X
12-lead ECG	X		X		X	X	X	X
BMD		X					X	
Pregnancy test ^c	X				X	X	X	X
Concomitant medications	X	X	X	X	X	X	X	X

Abbreviations: AE adverse event, BMD bone mineral density, ECG electrocardiogram, NRS numerical rating scale, PBAC pictorial blood loss assessment chart, UFS-QOL Uterine Fibroid Symptom Health-Related Quality of Life Questionnaire

^aBlood estradiol, luteinizing hormone, follicle-stimulating hormone, progesterone

^bSerum chemistry, hematology, and urinalysis

^cNot conducted if the subject was menstruating at the visit

Table S2 Inclusion/exclusion criteria

Inclusion criteria	Exclusion criteria
≥ 20 years of age	Blood disorders ^c
Diagnosis of uterine leiomyoma ^a , with ≥ 1 measurable noncalcified myoma ^b	Lower abdominal pain due to irritable bowel syndrome or severe interstitial cystitis
Regular menstrual cycle (25–38 days)	Thyroid dysfunction
Heavy menstrual bleeding in one menstrual cycle, total PBAC score ≥ 120	Pelvic inflammatory disease
	Positive Pap smear test result
	History of hysterectomy or bilateral oophorectomy ^d

Abbreviation: PBAC pictorial blood loss assessment chart

^aConfirmed by transvaginal ultrasound scan, magnetic resonance imaging, computed tomography scan, or laparoscopy

^bWidest diameter ≥ 3 cm

^cOther than iron-deficiency anemia

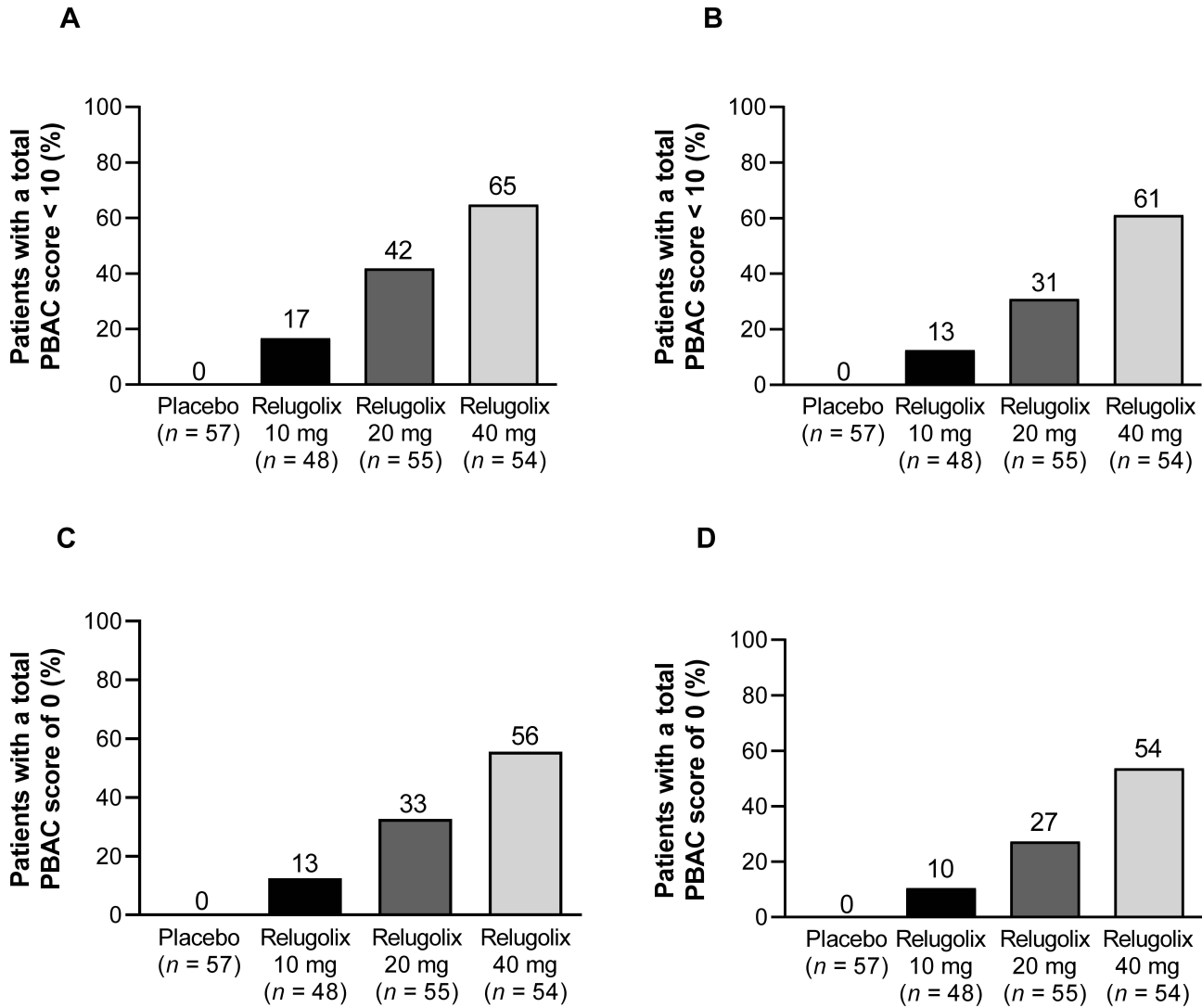
^dOr history of other medical conditions that could interfere with participation in the study

Table S3 Results of the subgroup analysis of total PBAC score

Baseline PBAC score subgroup	Treatment	<i>n</i>	Proportion of patients with total PBAC score < 10 from weeks 6–12 (%)
120 ≤ PBAC < 200	Placebo	20	0
	Relugolix 10 mg	23	30.4
	Relugolix 20 mg	25	48.0
	Relugolix 40 mg	26	80.8
200 ≤ PBAC < 500	Placebo	27	0
	Relugolix 10 mg	20	15.0
	Relugolix 20 mg	21	38.1
	Relugolix 40 mg	26	84.6
500 ≤ PBAC < maximum	Placebo	10	0
	Relugolix 10 mg	5	0
	Relugolix 20 mg	8	37.5
	Relugolix 40 mg	2	100

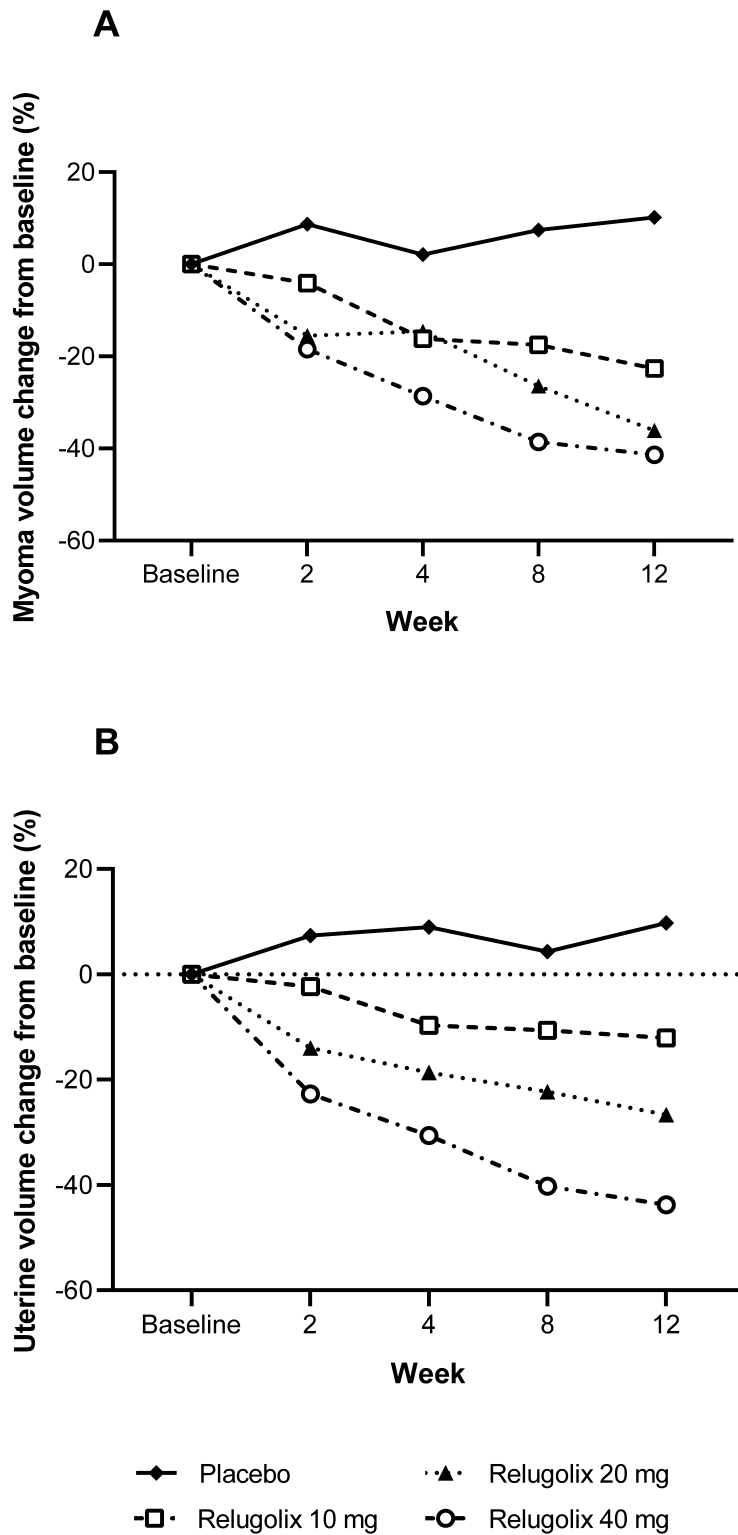
Abbreviation: PBAC pictorial blood loss assessment chart

Supplementary Fig. S1 Secondary efficacy endpoints: **A.** Proportion of patients with a total pictorial blood loss assessment chart (PBAC) score of <10 for weeks 2-6. **B.** Proportion of patients with a PBAC score < 10 for weeks 2-12. **C.** Proportion of patients with a total PBAC score of 0 for weeks 2-6. **D.** Proportion of patients with a total PBAC score of 0 for weeks 2-12.



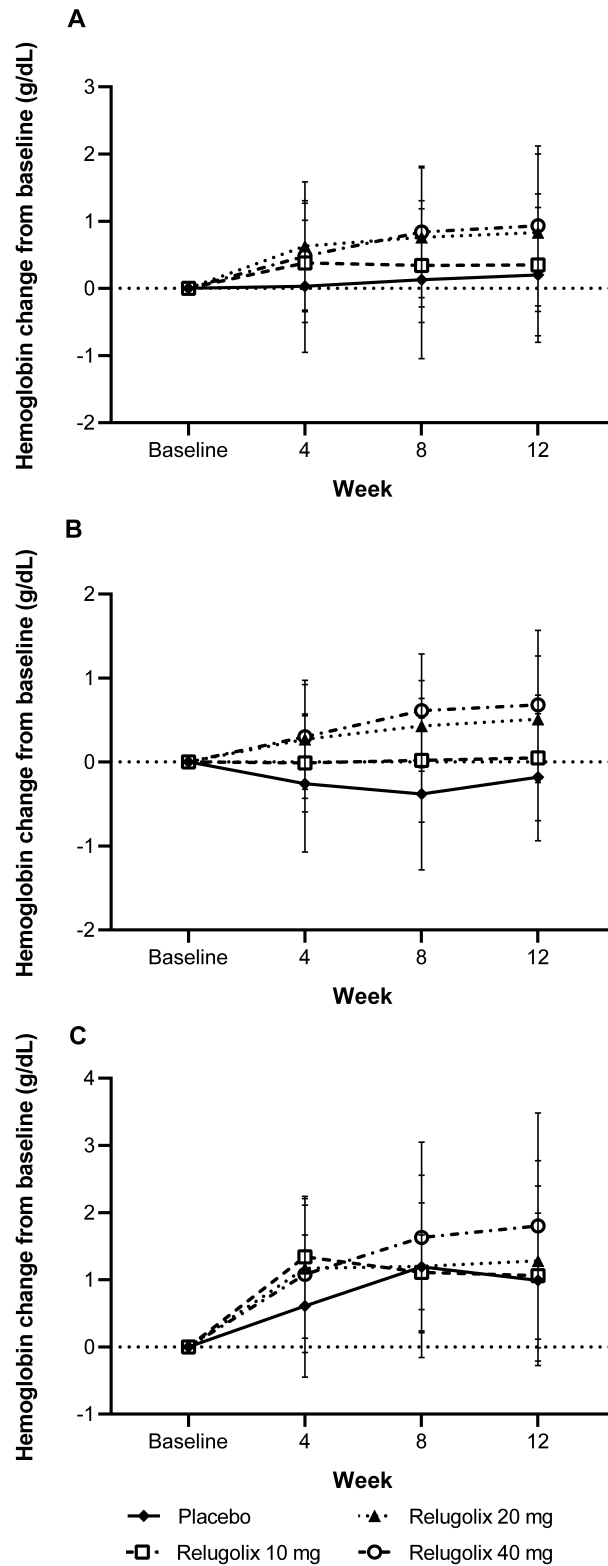
Supplementary Fig. S2. Secondary efficacy endpoints: **A.** Mean percent change from baseline in myoma volume.

B. Mean percent change from baseline in uterine volume.

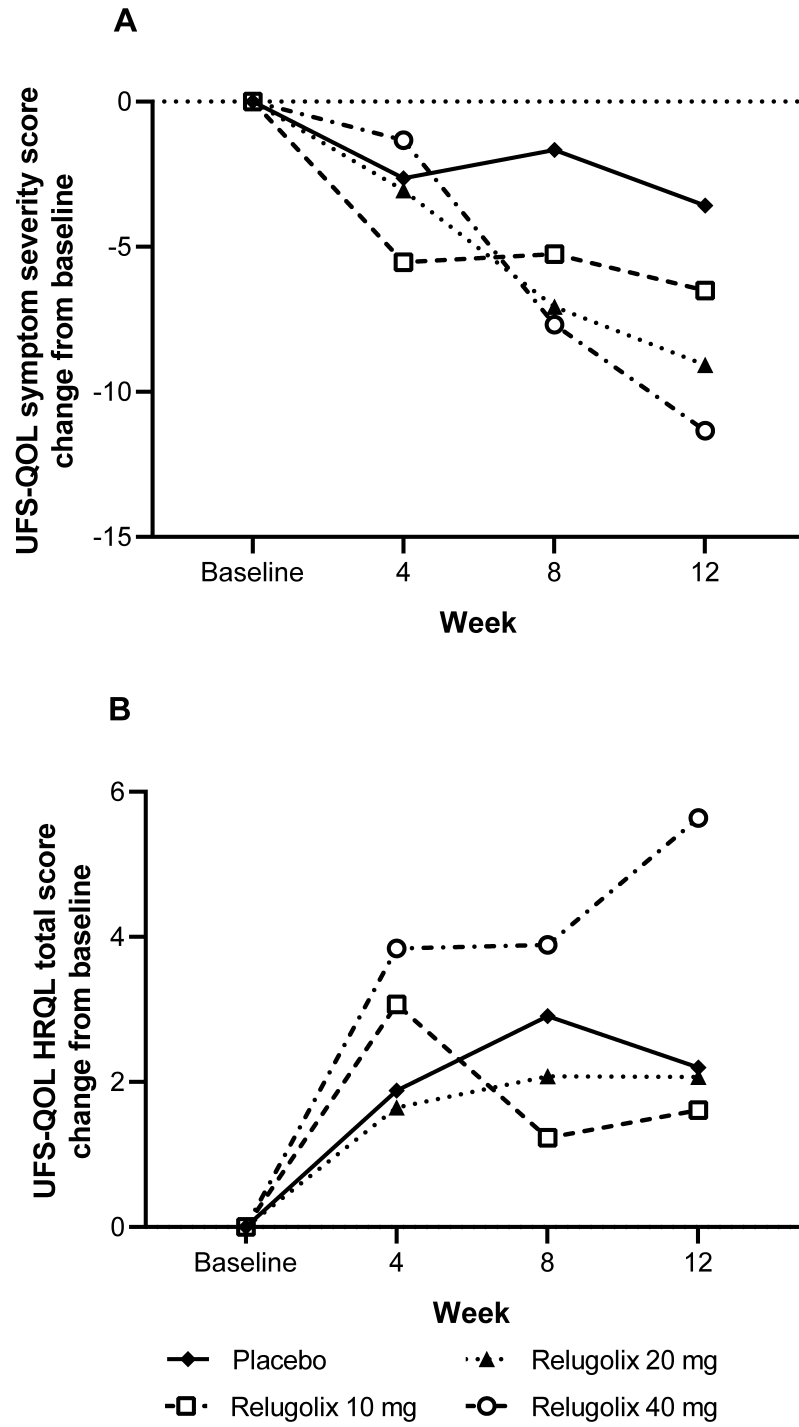


Supplementary Fig. S3. Secondary efficacy endpoint: Change from baseline in serum level of hemoglobin.

A. Overall. **B.** Without oral iron. **C.** With oral iron.



Supplementary Fig. S4. Secondary efficacy endpoint: Mean change from baseline in UFS-QOL score. **A.** Symptom severity score, **B.** HRQL total score. HRQL, health-related quality of life.



Supplementary Fig. S5. Change in serum levels of (A) LH, (B) FSH, and (C) progesterone across the study.

Data are the medians. LH, luteinizing hormone; FSH, follicle-stimulating hormone; FFU, the final day of follow-up.

