

PGI PERFORMANCE REPORT

Athlete: John Doe

Evaluation Type: Performance Evaluation

Prepared By: PGI Lead Evaluator

Coach: —

Practice Volume: ~14 hours/week

Technologies Used:

Polhemus 3D • GBD 3D Motion • Smart2Move Force Plates • TrackMan IO • PGI Physical Screen

1. PLAYER OVERVIEW

John Doe is a recreational competitive golfer with a high practice volume and a strong multi-sport athletic background. His stated goals are to improve long-game performance, increase total carry distance, and enhance sequencing efficiency and energy transfer.

John's current scoring strengths lie in **short-game control and putting**, providing a reliable foundation. His primary performance gaps remain **driver and mid-iron distance and dispersion**, which align directly with the biomechanical, ground-force, and physical findings in this evaluation.

John prefers a **high-draw ball flight** and commonly misses with **snap hooks or pushes**, indicating face-control variability driven by sequencing and force-timing issues rather than path mechanics alone.

2. INJURY HISTORY & PERFORMANCE CONTEXT

John presents with a significant cumulative injury history:

- Bilateral ankle sprains
- Bilateral knee hyperextension
- Bilateral hip arthritis
- Left wrist tendinitis
- Bilateral golfer's elbow
- Left shoulder impingement

Performance Impact

These limitations directly influence John's movement strategy. Reduced ankle and hip function limit posting and ground-force efficiency, while upper-extremity overuse contributes to **hand-dominant acceleration patterns** and early release timing. These compensations explain both the loss of distance and the volatility in start line.

3. PERSONALITY PROFILE (PEAK GOLF PERSONALITY INDEX)

Trait Scores

- **G (Grounded / Structured):** 30
- **O (Outgoing / Competitive):** 17
- **L (Listener / Adaptive):** 25
- **F (Fact-Based / Analytical):** 34

Interpretation

John is **F/G dominant**, indicating a strong preference for structured learning, objective feedback, and clear cause-and-effect relationships. Progress is maximized when training is logical, measured, and benchmarked rather than exploratory or feel-based.

Coaching Implications

- Clear priorities with limited variables
- Data-driven validation of changes
- Emphasis on efficiency over effort
- Structured progressions with checkpoints

4. 3D BIOMECHANICAL EVALUATION

4.1 Kinematic Sequence

Findings

- **Transition Initiation:** Pelvis
- **Transition Order:** Pelvis → Club → Arm → Torso
- **Peak Speed Order:** Club → Pelvis / Torso / Arm (tied)

Segment Peak Speeds

- **Pelvis:** 306°/s (below PEAK norm of 480–600°/s)
- **Torso:** 475°/s (moderate, late)
- **Arm:** 933°/s (high, poorly sequenced)
- **Club:** 1471°/s (acceptable, hand-driven)

Segmental Gain Efficiency

- **Torso–Pelvis:** +55% (adequate but late)
- **Arm–Torso:** +96% (excessive; delayed transfer)

- **Club–Arm:** +58% (below optimal; premature release)

Interpretation

John initiates correctly from the ground, but **upper-segment acceleration occurs too early**, eliminating kinematic stretch. Energy is released simultaneously rather than transferred progressively, producing an arm-dominant delivery and reduced speed efficiency.

5. 6 DOF (MOTION) ANALYSIS

Posture

- Pelvic Bend (Address): **27.1°** → Excessive anterior tilt (S-posture)
- Torso Bend (Address): **23.5°** → Shallow hinge

Sway & Thrust

- Pelvic Sway @ Top: **+10.2 cm** (excessive trail shift)
- Pelvic Thrust @ Impact: **+7.8 cm** (early extension)
- Pelvic Bend @ Impact: **14°** (>10° loss from address)

Rotation

- Pelvic Rotation (TOB): **−54.4°** (within range, delayed)
- Torso Rotation (TOB): **−73.5°** (solid coil)
- X-Factor Stretch: **0°** (absent)

Interpretation

S-posture, excessive lateral loading, and early extension limit pelvic acceleration and braking mechanics. The absence of X-factor stretch confirms **no elastic energy storage** during transition.

6. GROUND REACTION FORCE (GRF) ANALYSIS

Measured Pressures

- **P1:** 55% lead / 45% trail (balanced)
- **P2:** 58% trail (acceptable, below optimal)
- **P4:** 83% trail (strong load)
- **P5:** 55–56% lead (unstable re-centering; toe-biased)

Interpretation

John loads the trail side effectively but struggles to **re-center early and stabilize on the lead side**, reducing vertical force contribution and forcing compensation through the arms and hands.

7. PGI PHYSICAL SCREEN SUMMARY

Mobility

- Restricted bilateral hip internal rotation (arthritic change)
- Limited ankle mobility
- Limited shoulder external rotation

Stability

- Weak dynamic core control
- Poor pelvic tilt awareness
- Inconsistent single-leg balance

Power

- Vertical Jump: **11.1"**
- Grip Strength: **39.3 kg (L) / 38.2 kg (R)**
- Driver Club Speed: **78 mph**

Interpretation

Physical limitations restrict posting, braking, and rotational efficiency. Power output and club speed are well below coordination and practice potential.

8. PERFORMANCE INTERPRETATION

Driving

Distance loss and dispersion are driven by:

- Collapsed sequencing
- Late lead-side stabilization
- Hand-dominant acceleration
- Early extension under speed

Ball Flight

- **Snap hook:** Early release and face closure
- **Push:** Stalled release with unstable base

These misses are **sequencing- and force-timing driven**, not grip or path errors.

9. DEVELOPMENT PRIORITIES (F/G ADJUSTED)

Priority 1 — Sequencing & Stretch

Restore delay between pelvis, torso, and arms.

Priority 2 — Posture & Pelvic Control

Eliminate S-posture and early extension.

Priority 3 — Lead-Side Stability

Earlier re-centering and posting through P5–P6.

Priority 4 — Power Development

Improve vertical and rotational force safely.

Priority 5 — Performance Validation

Confirm gains under pressure via carry and dispersion metrics.

10. SUMMARY STATEMENT

John Doe is a disciplined, analytical golfer whose long-game limitations are rooted in **efficiency, sequencing, and force timing**, not effort or intent. His athletic background and practice volume provide a strong foundation for improvement.

By restoring kinematic stretch, improving posture and lead-side stability, and rebuilding ground-force utilization, John is positioned to achieve meaningful gains in distance, dispersion, and long-term durability without increasing injury risk.