

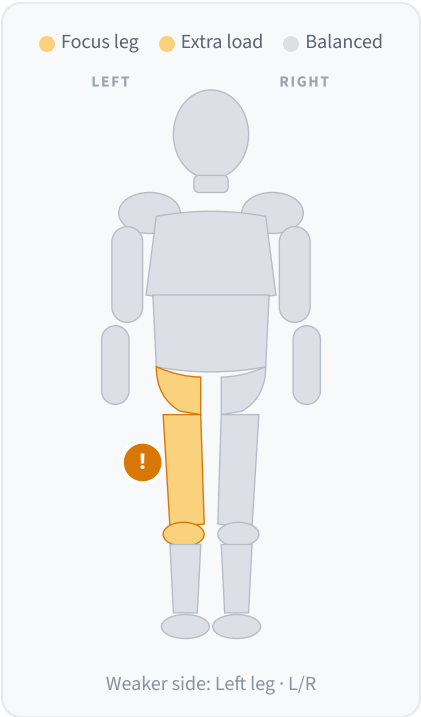
MADELEINE DOBBINS

ACL Readiness Screen · SDSC

Date: 2026-06-11

Age: 14 yrs

Platform: VALD ForceDecks



OVERALL

MONITOR

A side-to-side gap worth addressing. Based on the largest left-vs-right difference measured today (**15%**).

0% 10% · balanced 15% 30%+

SINGLE-LEG SYMMETRY

10% gap

Target: <10% gap

JUMP HEIGHT RANK

6th of 24

By jump height · 1st = highest

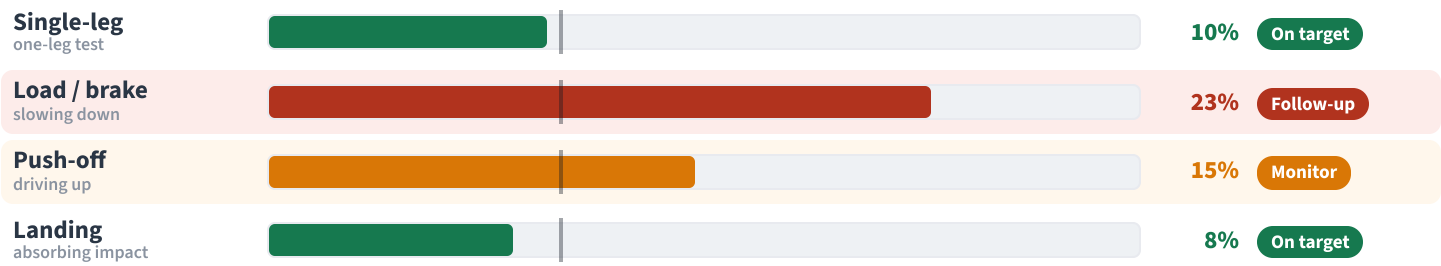
JUMP POWER

27.9 cm

Above average · age 14

JUMP BALANCE – LEFT VS RIGHT

A jump has three phases — she **loads & brakes** on the way down, **pushes off**, then **lands**. We measure how evenly her legs share the work in each, plus a single-leg test. Bars show the left-vs-right gap (shorter = more balanced; target under 10%).

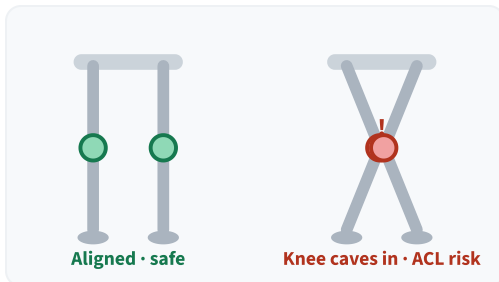


What this means. Her biggest gap is in how she **decelerates and plants** — one leg takes more of the braking load — a modest left-vs-right difference. That's the exact movement behind stopping to defend, cutting and changing direction — and where the large majority of non-contact ACL tears happen. A gap like this is one of the most established, **modifiable** risk factors for a non-contact knee injury — far better caught now, on a force plate, than after an injury. The good news: it's very trainable.

This is a movement **screen**, not a medical diagnosis. The next pages explain how an ACL injury happens, what this means for her game, her numbers, and the plan. Captured on VALD ForceDecks (dual force plates). © Catalyst Performance.

MADELEINE — UNDERSTANDING THE RESULT

HOW A NON-CONTACT ACL INJURY HAPPENS



The **ACL** is the main ligament that stabilises the knee — it stops the shin sliding forward and the knee twisting inward. About **70% of ACL tears are non-contact**: they happen in a split second when an athlete **decelerates, lands, or cuts and the knee caves inward** (the position on the right).

A leg that's **weaker or less controlled is more likely to collapse into that position** — and less able to absorb the load — so the ligament takes the strain. **That's why a left-vs-right asymmetry matters: it flags the leg least able to handle the exact forces that tear an ACL.** For Madeleine, it's her **braking** — one leg less able to absorb the deceleration safely, the exact moment most ACLs tear.

WHAT THIS MEANS FOR MADELEINE'S GAME

ON THE PITCH

- **Decelerating to defend or stop** — One leg absorbs more of the braking — the highest-risk moment for the knee.
- **Planting to cut & change direction** — Uneven loading exactly where most non-contact ACL tears occur.
- **Over a full season** — Thousands of cuts and stops compound that uneven load.

WHY IT MATTERS — THE EVIDENCE

- Female soccer players are **4–6× more likely** to tear an ACL than boys.
- About **70% are non-contact** — on cuts, decelerations and landings, the exact movements measured here.
- A left-vs-right gap over **10–15%** is a recognised, **modifiable** risk factor and a return-to-play standard.
- Soccer-specific neuromuscular training (FIFA 11+) cuts ACL injuries **30–50%** — and works best in youth.

Refs: Arendt & Dick 1995; Grindem 2016; Bishop 2018; Sadoghi 2012 (meta-analysis).

MORE THAN INJURY — PERFORMANCE

Symmetry isn't only protective — it's faster. The same balance that guards the knee also drives her game:

- **Acceleration & cutting** — Even drive off both legs means a quicker first step and sharper change of direction.
- **Power transfer** — Her jump of **27.9 cm** (Above average for her age) is her explosive base — balanced legs put it into sprints, jumps and shots.
- **Durability** — When one leg isn't overworking, she fatigues less and stays available all season.

MEASURE	MADELEINE	TARGET / REFERENCE	STATUS
Single-leg jump symmetry (L vs R)	10% gap	<10% gap (≥90% symmetry)	On target
Push-off balance (take-off)	15% gap	<10% gap	Monitor
Load / brake balance (decelerating)	23% gap	<10% gap	Follow-up
Landing balance (impact)	8% gap	<10% gap	On target
Counter-movement jump height	27.9 cm	Above average vs girls age 14	Baseline

13 · below avg avg 22 above avg · 31 cm

WHAT TO WORK ON – MADELEINE'S TAKE-HOME

- Coach-led general guidance from today's screen — a starting point, not a prescription. The complimentary follow-up adds the single-leg test and turns this into a personalized, supervised plan with a re-test to show progress.

FREE RESULTS CALL Complimentary • 15 min Walk through Madeleine's results with our staff and map out what to do next.	IN-DEPTH EVALUATION \$169 • 1 hour A fuller VALD force-plate battery — more movements tested to pinpoint the cause and build her plan.	COMPLETE ASSESSMENT \$349 • 2 hours The full VALD evaluation plus hands-on flexibility & mobility screening with our ATC on the table.
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Recommended given today's result — reply to this email, text us, or talk to your coach — we'll get her started.

Important. Wellness **screen**, not a medical diagnosis or injury prediction — asymmetry is one risk indicator, not a guarantee either way. Results vary day to day; any pain or prior injury should be seen by a physician/PT. © Catalyst Performance · catalystperformancesd.com