

DATA REPORT - EN

Enhanced Games 2026: athletes, protocols, records and sport comparisons

White, text-first version. Data snapshot: 30 June 2026. All doping information is aggregate/public; no individual athlete protocol was published.



Core point	Data
Event	Inaugural Enhanced Games, Las Vegas, 24 May 2026; rostered athletes across swimming, track, weightlifting and strongman.
Records	One performance went faster than the official world record reference: Kristian Gkolomeev, 20.81 in men's 50 m freestyle. It is not a ratified World Aquatics record.
Clean winners	Public reports identify Fred Kerley, Tristan Evelyn and Hunter Armstrong as event winners who said/appeared to compete without PED use.
Protocol transparency	Enhanced released only aggregate PED category usage, not per-athlete substances, doses, lab values or protocol timelines.

How to read tags: R = official current/former world record holder; R* = unofficial Enhanced performance faster than WR reference but not ratified; O = Olympic participant; M = world/continental champion; K = national champion or national-record class athlete; C = competed/won without PED according to public reports. Tags are conservative and source-dependent.

Roster by discipline, with achievement tags

Discipline	Athletes	Count
Swimming	Sohib Khaled [K] C; Felipe Lima [O M K]; Isabella Arcila [O K]; Max McCusker [K]; Hunter Armstrong [R O M K] C; Natalia Fryckowska [K]; Evgenii Somov [O K]; Emily Barclay [K]; Antani Ivanov [O M K]; Miguel De Lara Ojeda [O K]; Cody Miller [R O M K]; Benjamin Proud [O M K]; Shane Ryan [O M K]; Marius Kusch [O M K]; Andrii Govorov [R O M K]; Kristian Gkolomeev [R* O M K]; James Magnussen [O M K]; Megan Romano [M K]	18
Track	Tristan Evelyn [O K] C; Emmanuel Matadi [O M K]; Jasmine Abrams [O K]; Denae McFarlane [K]; Mike Bryan [K]; Clarence Munyai [O M K]; Marvin Bracy-Williams [O M K]; Taylor Anderson [K]; Shockoria Wallace [K]; Reece Prescod [O M K]; Shania Collins [M K]; Fred Kerley [O M K] C; Mouhamadou Fall [O M K]	13
Weightlifting	Dylan Cooper [K]; Beatriz Piron [O M K]; Arley Mendez [R O M K]; Yoni Andica [O M K]; Juan Solis [K]; Leidy Solis [O M K]; Maryam Usman [O M K]; Boady Santavy [O M K]; Wesley Kitts [O M K]	9
Strongman	Mitchell Hooper [M K]; Thor Bjornsson [R M K]	2

Tag	Meaning	Count in this source pass
R	Official current/former world record holder	5
R*	Unofficial Enhanced faster-than-WR performance, not ratified	1
O	Olympic participant	28
M	World or continental champion	27
K	National champion / national record / national-team title level	42
C	No-PED / clean competitor according to public reporting	4

Publicly disclosed PED protocol framework

This page lists what was actually published. It does not infer personal stacks or doses for named athletes.

Public item	Published content	Dose/timing public?	Where it matters
Trial coverage	36 of 42 athletes were in the clinical-study group; four of 42 competitors were reported/declared as no-PED/natural.	No individual data	Important for interpreting event averages.
Treatment window	Released usage data came from a 12-week trial period. Study description allowed treatment up to 25 weeks plus follow-up monitoring up to five years.	Timing yes, individual scheduling no	Short exposure may matter for strength/power outcomes.
Permitted categories	Testosterone esters; anabolic agents; peptides and growth factors; metabolic modulators/ancillaries; stimulants.	No dose list	Broad category list only.
Testosterone/testosterone esters	91% of study athletes used testosterone or testosterone esters.	No	Strength/power and lean mass plausibility.
Human growth hormone	79% used hGH.	No	Lean mass/water/connective tissue; limited direct strength evidence.
Stimulants	62% used stimulants; Adderall was given as example.	No	Sprint arousal, heat tolerance, effort perception.
Metabolic modulators / ancillaries	50% used metabolic modulators, mainly ancillary compounds such as anastrozole alongside anabolic agents.	No	Hormonal management rather than direct sport output.
EPO	41% used erythropoietin.	No	Endurance/aerobic effect; less direct for 50 m swim or 100 m sprint.
Anabolic steroid agent	29% used an anabolic steroid agent; Deca-Durabolin was listed as an example.	No	Strength/lean mass plausibility.
Hormonal support	5% used hormonal support therapy; hCG was listed as example.	No	Endogenous testosterone support/axis management.
Individual protocols	Enhanced stated individual athlete protocols would not be made public.	No	No athlete-by-athlete dosing table can be made from public sources.

Allowed/disclosed at Enhanced vs public strength-sport self-reports

The comparison separates reliable public Enhanced data from interview/self-report material. Self-report items are not verified lab protocols.

Category	Enhanced public disclosure	Public self-report / strength-sport examples	Dose status
Base androgen	Testosterone / testosterone esters permitted; 91% usage in study group.	James Magnussen publicly described testosterone as part of his preparation; bodybuilding/strongman self-reports commonly mention testosterone.	No reliable EG per-athlete dose; self-report doses not treated as verified.
19-nor / other AAS	Anabolic steroid agent listed; Deca-Durabolin given as example; 29% usage.	Strength-sport self-reports and PIED literature commonly mention nandrolone, trenbolone and other injectables.	No reliable dose table from public EG sources.
hGH / secretagogues	hGH listed; 79% usage. Peptides/growth factors were allowed category.	Magnussen publicly named BPC-157, CJC-1295, ipamorelin and thymosin-class peptides in interview coverage.	Names public; doses not reliable.
EPO	EPO listed; 41% usage.	Endurance-sport literature has dosing protocols, but strength-sport self-reports are less consistent.	No EG doses.
Stimulants	Stimulants listed; 62% usage; Adderall example.	PIED literature and interviews often mention amphetamine-class stimulants, modafinil/alertness agents and pre-event stimulants.	No EG doses.
Ancillaries	Anastrozole example; 50% metabolic modulators/ancillaries.	Aromatase inhibitors, SERMs and hCG appear in bodybuilding/PIED support protocols.	No EG doses; research doses summarized in PL PDF.
Beta-2 agonists / fat-loss agents	Not specifically listed in EG aggregate release, unless included under metabolic modulators.	PIED literature often lists clenbuterol/albuterol/salbutamol; ergogenic effects depend on route and dose.	No EG confirmation.

Dose rule for this report: only controlled-study doses are shown in the Polish research PDF. No practical doping-cycle dosing is reconstructed from interviews.

Records: what was actually beaten

Metric	Count	Details
Official world records ratified by governing bodies	0	No performance was ratified by World Athletics, World Aquatics, IWF or strongman record bodies as an official world record.
Times/lifts faster than standing official WR reference	1	Kristian Gkolomeev 20.81 in men's 50 m freestyle, 0.07 s faster than Cameron McEvoy's 20.88 reference at the time.
Record bonus claimed	1	Gkolomeev was reported to have claimed the \$1m bonus for the unofficial 50 m freestyle mark.
Clean/no-PED event winners	3	Fred Kerley, Tristan Evelyn, Hunter Armstrong.
Track world records beaten	0	Men 100 m 9.97 vs 9.58; women 100 m 11.25 vs 10.49.
Weightlifting/strongman world records beaten	0	Thor Bjornsson lifted 475 kg and missed a 515 kg attempt; official/all-time deadlift reference was 510 kg.

For swimming ratification, the issue is not only the time: a sanctioned meet, legal textile suit, anti-doping control and approved timing documentation are part of the governing-body record process. Enhanced conditions fail the ratification conditions used by official federations.

All contested sports/events - best result and reference

Sport	Event	EG winner/best	EG best	Reference	C	Note
Track	Men 100 m	Fred Kerley	9.97	9.58 WR	C	6 finishers
Track	Women 100 m	Tristan Evelyn	11.25	10.49 WR	C	6 finishers; avg includes 13.30
Swimming	Men 50 m backstroke	Hunter Armstrong	24.21	23.55 WR	C	non-Olympic event
Swimming	Men 50 m breaststroke	Cody Miller	26.55	25.95 WR		non-Olympic event
Swimming	Men 100 m freestyle	Kristian Gkolomeev	46.60	46.40 WR		100 free is Olympic/WC event
Swimming	Women 50 m freestyle	Emily Barclay	24.09	23.61 WR at EG ref.; current WR later 23.55		Olympic/WC event
Swimming	Men 50 m butterfly	Benjamin Proud	22.32	22.27 WR		non-Olympic event
Swimming	Men 100 m breaststroke	Cody Miller	59.47	56.88 WR		Olympic/WC event
Swimming	Women 100 m freestyle	Megan Romano	54.20	51.71 WR at EG ref.; current WR later 51.68		Olympic/WC event
Swimming	Men 100 m butterfly	Marius Kusch	51.28	49.45 WR		Olympic/WC event
Swimming	Men 50 m freestyle	Kristian Gkolomeev	20.81	20.88 official WR at EG time		unofficially faster than WR; not ratified

All contested weightlifting/strongman events - best result and reference

Sport	Event	EG best athlete	EG best	Reference	Note
Weightlifting	W 53 kg snatch	No valid lift	--	99 kg WR	Beatriz Piron no valid snatch
Weightlifting	W 53 kg clean & jerk	Beatriz Piron	118 kg	126 kg WR	only W53 valid C&J result
Weightlifting	W 86 kg snatch	Leidy Solis	100 kg	129 kg WR	only W86 entrant
Weightlifting	W 86 kg clean & jerk	Leidy Solis	140 kg	162 kg WR	only W86 entrant
Weightlifting	W +86 kg snatch	Maryam Usman	115 kg	144 kg WR	only +86 entrant
Weightlifting	W +86 kg clean & jerk	No valid lift	--	181 kg WR	Usman missed C&J attempts
Weightlifting	M 79 kg snatch	Yoni Andica	135 kg	166 kg WR	only M79 entrant
Weightlifting	M 79 kg clean & jerk	Yoni Andica	170 kg	? WR by class standard not directly listed	only M79 entrant
Weightlifting	M 88 kg snatch	Arley Mendez	155 kg	category WR/standard varies by IWF update	withdrew after injury
Weightlifting	M 88 kg clean & jerk	No valid lift	--	216 kg WR	Mendez withdrew
Weightlifting	M 94 kg snatch	Boady Santavy	177 kg	182 kg WR	Juan Solis 150 kg
Weightlifting	M 94 kg clean & jerk	Juan Solis	188 kg	222 kg WR	Santavy's 118 kg was clean/press format, not normal C&J
Weightlifting	M 110 kg snatch	Wesley Kitts	185 kg	196 kg WR	Dylan Cooper 160 kg
Weightlifting	M 110 kg clean & jerk	Wesley Kitts	220 kg	237 kg WR	Dylan Cooper 205 kg
Strongman	Deadlift 140 kg	Mitchell Hooper	440 kg	510 kg all-time deadlift WR	single competitor in 140 class
Strongman	Deadlift +140 kg	Thor Bjornsson	475 kg	510 kg all-time deadlift WR	failed 515 kg attempt

Same-event Olympic and World Championship comparison

Same-event rule applied: 50 m swimming strokes are not counted as Olympic events; an athlete's Olympic 100 m does not count for an Enhanced 50 m event. Counts are finalists in the same event/category, not just Olympians on the roster.

Event	EG best	EG avg	Olympic reference, same event	EG athletes with Olympic final in same event	WC reference, same event	EG athletes with WC final in same event	Best delta	Avg delta
M 100 m	9.97	10.37	Paris 2024 final winner 9.79; final avg about 9.89	1/6	Tokyo 2025 final winner 9.77; competitive avg about 9.91	2/6	+0.18 vs Paris winner	+0.48 vs Paris avg
W 100 m	11.25	11.80	Paris 2024 final winner 10.72; avg excl. injury DNF-like 13.84 about 10.92	0/6	Tokyo 2025 final winner 10.61; final avg 10.90	0/6	+0.53 vs Paris winner	+0.88 vs Paris avg
M 100 m freestyle	46.60	48.26	Paris 2024 winner 46.40; final avg about 47.5	1/4	WC final reference; winner usually mid-46/high-46	1/4	+0.20 vs Paris winner	+0.7 approx vs Paris avg
W 50 m freestyle	24.09	24.98	Paris 2024 winner 23.71; final avg about 24.2	0/4	WC final reference; winner low-23/high-23	0/4	+0.38 vs Paris winner	+0.8 approx vs Paris avg
M 100 m breaststroke	59.47	60.97	Paris 2024 winner 59.03; final avg about 59.5	1/4	WC final reference; winner about 58-mid	2/4	+0.44 vs Paris winner	+1.4 approx vs Paris avg
W 100 m freestyle	54.20	55.64	Paris 2024 winner 52.16; final avg about 52.7	0/4	WC final reference; winner low-52/high-51	1/4	+2.04 vs Paris winner	+2.9 approx vs Paris avg
M 100 m butterfly	51.28	51.74	Paris 2024 winner 49.90; final avg about 50.5	0/4	WC final reference; winner about 49-mid	2/4	+1.38 vs Paris winner	+1.2 approx vs Paris avg
M 50 m freestyle	20.81	21.48	Paris 2024 winner 21.25; final avg about 21.6	2/4	WC final reference; winner around 21.0	3/4	-0.44 vs Paris winner	about -0.1 vs Paris avg
M 50 m backstroke	24.21	25.22	No Olympic event	N/A	WC 50 back reference; winner usually low/mid-24	2/4	not Olympic	not Olympic
M 50 m breaststroke	26.55	27.14	No Olympic event	N/A	WC 50 breast reference; winner usually mid-25	2/4	not Olympic	not Olympic
M 50 m butterfly	22.32	22.82	No Olympic event	N/A	WC 50 fly reference; WR 22.27	3/4	+0.05 vs WR	+0.55 vs WR
Weightlifting/strongman	see lift table	see lift table	Exact EG bodyweight classes do not all map cleanly to Paris classes	same-class exact mostly N/A	IWF classes changed; same-class checks need IWF database event-by-event	several	reported in lift table	reported in lift table

World record and athlete lifetime-best table

Event	EG best	Official WR/reference at event time	Status of record holder	Best lifetime same-event result by EG winner
M 100 m	Fred Kerley 9.97	Usain Bolt 9.58	Bolt current WR	Kerley PB 9.76
W 100 m	Tristan Evelyn 11.25	Florence Griffith-Joyner 10.49	Griffith-Joyner current WR	Evelyn PB about 11.14
M 50 back	Hunter Armstrong 24.21	Kliment Kolesnikov 23.55	Kolesnikov current; Armstrong former WR 23.71	Armstrong PB 23.71
M 50 breast	Cody Miller 26.55	Adam Peaty 25.95	Peaty current WR	Miller PB 27.24; Lima PB 26.33
M 100 free	Gkolomeev 46.60	Pan Zhanle 46.40	Pan current WR	Gkolomeev official PB 48.68 before EG; Magnussen PB 47.10
W 50 free	Emily Barclay 24.09	Sarah Sjostrom 23.61 at EG ref.; current WR later 23.55	Sjostrom former/current context changed after EG	Barclay PB 25.25 before EG; EG was faster
M 50 fly	Ben Proud 22.32	Andrii Govorov 22.27	Govorov current WR and EG participant	Proud PB 22.74 before EG; EG was faster
M 100 breast	Cody Miller 59.47	Adam Peaty 56.88	Peaty current WR	Miller PB 58.87
W 100 free	Megan Romano 54.20	Sarah Sjostrom 51.71 at EG ref.; current WR later 51.68	WR context changed after EG	Romano PB 53.90
M 100 fly	Marius Kusch 51.28	Caeleb Dressel 49.45	Dressel current WR	Kusch PB 51.35 before EG; EG was faster
M 50 free	Gkolomeev 20.81	Cameron McEvoy 20.88	McEvoy current official WR; Gkolomeev unofficial EG fastest	Gkolomeev official PB 21.44 before EG; EG was faster
Strongman deadlift	Thor Bjornsson 475 kg	Thor Bjornsson 510 kg all-time deadlift	Bjornsson current all-time WR	Bjornsson PB/WR 510 kg

Medical-control interpretation: what the public data supports

The public record supports a narrow statement: protocols were supervised and monitored, but they were not transparent enough to prove a dose ceiling athlete-by-athlete.

Question	What can be said	What cannot be said from public sources
Were athletes simply free to use anything?	No. Enhanced described a clinical-study framework, approved categories, regular assessments during the study and follow-up monitoring for up to five years.	The public record does not show the exact medical exclusion rules, stop rules, lab thresholds or adjudication decisions.
Could athletes take 'horse doses'?	Publicly, the event framed substance use as medically supervised. That means there was at least claimed medical oversight and aggregate reporting.	No published per-athlete dosing data proves that extreme dosing was impossible. The correct wording is: supervised, not publicly auditable.
Were all athletes enhanced?	No. Public reporting says four of 42 competed without PEDs; three no-PED athletes won events.	Which exact substances each enhanced athlete used is not public.
Do aggregate percentages identify the fastest athlete's stack?	No. Percentages tell us the distribution in the study group only.	They cannot be assigned to an individual name without disclosure.

All 42 athletes - EG result, age and same-event lifetime best

Ages are age on 24 May 2026 where birth date was public; some youth/current lower-tier PBs are marked approximate because open databases do not expose every field consistently. Weightlifting category changes make exact same-category PB comparison impossible for several athletes.

Last name, first name	Sport + event	Enhanced Games result	Age	Same-event lifetime best and age
Khaled, Sohib	Swimming - M 50 back; M 100 fly	25.68; 52.29	26	50 back about 25.98; 100 fly 52.79 before EG, 52.29 at EG (age 26)
Lima, Felipe	Swimming - M 50 breast; M 100 breast	26.98; 61.94	41	50 breast 26.33 (age about 32); 100 breast 59.17 (age about 34)
Arcila, Isabella	Swimming - W 50 free; W 100 free	25.12; 55.70	32	50 free 25.11 (age about 24); 100 free 55.21 (age about 23)
McCusker, Max	Swimming - M 50 fly; M 100 fly	23.39; 51.78	27	50 fly 23.44 before EG; 100 fly 51.90 before EG; EG improved both (age 27)
Armstrong, Hunter	Swimming - M 50 back; M 100 free	24.21; 48.09	25	50 back 23.71 former WR (age 21); 100 free 47.59 (age about 23)
Fryckowska, Natalia	Swimming - W 50 free; W 100 free	26.14; 57.97	23	50 free 25.84; 100 free 56.85 before EG (age about 21-22)
Somov, Evgenii	Swimming - M 50 breast; M 100 breast	27.21; 59.61	27	50 breast 27.44 before EG, 27.21 at EG; 100 breast 58.72 before EG (age 25)
Barclay, Emily	Swimming - W 50 free; W 100 free	24.09; 54.67	24	50 free 25.25 before EG, 24.09 at EG; 100 free 57.24 before EG, 54.67 at EG
Ivanov, Antani	Swimming - M 50 back; M 100 fly	25.76; 51.61	26	50 back 27.54; 100 fly 51.93 before EG, 51.61 at EG
De Lara Ojeda, Miguel	Swimming - M 50 breast; M 100 breast	27.82; 62.86	31	50 breast 27.38; 100 breast 60.14 before EG
Miller, Cody	Swimming - M 50 breast; M 100 breast	26.55; 59.47	34	50 breast 27.24 before EG, 26.55 at EG; 100 breast 58.87 Olympic bronze season (age 24)
Proud, Benjamin	Swimming - M 50 fly; M 50 free	22.32; 20.98	31	50 fly 22.74 before EG, 22.32 at EG; 50 free 20.98 at EG / 21.11 official textile PB
Ryan, Shane	Swimming - M 50 back; M 100 free	25.23; 48.92	32	50 back 24.32; 100 free 48.39 before EG
Kusch, Marius	Swimming - M 50 fly; M 100 fly	22.92; 51.28	33	50 fly 23.38 before EG, 22.92 at EG; 100 fly 51.35 before EG, 51.28 at EG
Govorov, Andrii	Swimming - M 50 fly; M 50 free	22.66; 21.79	34	50 fly 22.27 WR (age 26); 50 free about 21.46
Gkolomeev, Kristian	Swimming - M 100 free; M 50 free	46.60; 20.81	33	50 free official PB 21.44 before EG, 20.81 unofficial EG; 100 free official PB 48.68 before EG, 46.60 at EG
Magnussen, James	Swimming - M 100 free; M 50 free	49.44; 22.35	35	100 free 47.10 (age 22); 50 free about 21.52
Romano, Megan	Swimming - W 50 free; W 100 free	24.55; 54.20	35	50 free 24.98 before EG, 24.55 at EG; 100 free 53.90 before EG
Evelyn, Tristan	Track - W 100 m	11.25	28	100 m PB about 11.14; EG 11.25
Matadi, Emmanuel	Track - M 100 m	10.05	35	100 m PB 9.91 (age about 33)
Abrams, Jasmine	Track - W 100 m	11.72	32	100 m PB 11.07 (age about 29)
McFarlane, Denae	Track - W 100 m	11.61	26	100 m PB about 11.37
Bryan, Mike	Track - M 100 m	10.87	27	100 m PB about 10.12
Munyai, Clarence	Track - M 100 m listed	DNS / no listed final result	28	100 m PB 9.99; 200 m PB 19.69
Bracy-Williams, Marvin	Track - M 100 m	10.39	32	100 m PB 9.85 (age 28-29)
Anderson, Taylor	Track - W 100 m	11.48	31	100 m PB about 11.20
Wallace, Shockoria	Track - W 100 m	13.30	33	100 m PB about 11.23
Prescod, Reece	Track - M 100 m	10.48	30	100 m PB 9.93 (age 26)
Collins, Shania	Track - W 100 m	11.43	29	100 m PB about 10.92
Kerley, Fred	Track - M 100 m	9.97	31	100 m PB 9.76 (age 27)
Fall, Mouhamadou	Track - M 100 m	10.47	34	100 m PB about 10.04
Cooper, Dylan	Weightlifting - M 110 snatch; C&J	160; 205; total 365	28	Comparable same-class PB not publicly verified in open sources used
Piron, Beatriz	Weightlifting - W 53 snatch; C&J	snatch no lift; C&J 118	31	C&J 118 at EG; prior best in lighter classes not directly same-category comparable

Last name, first name	Sport + event	Enhanced Games result	Age	Same-event lifetime best and age
Hooper, Mitchell	Strongman - deadlift 140 kg	440 kg	30	Strongman deadlift PB about 475 kg; class conditions differ
Bjornsson, Thor	Strongman - deadlift +140 kg	475 kg	37	Deadlift PB/current all-time record 510 kg (age 36-37)
Mendez, Arley	Weightlifting - M 88 snatch; C&J	155; no C&J	32	Former world record level in 85 kg class: 175/214/389; category not same
Andica, Yoni	Weightlifting - M 79 snatch; C&J	135; 170; total 305	39	Prior best roughly 149/178-class range; exact same-category PB not verified
Solis, Juan	Weightlifting - M 94 snatch; C&J	150; 188; total 338	27	Comparable same-category PB not publicly verified in open sources used
Solis, Leidy	Weightlifting - W 86 snatch; C&J	100; 140; total 240	36	World-class totals in previous 69/75/81 kg eras; exact 86 kg same-category PB not directly comparable
Usman, Maryam	Weightlifting - W +86 snatch; C&J	115; no C&J	35	Olympic-era +75/+87 bests not directly comparable; EG no valid total
Santavy, Boady	Weightlifting - M 94 snatch; C&J	177 snatch; 118 clean/press	28	Snatch 178+ range; Olympic 96 kg bests not exact same-category comparable
Kitts, Wesley	Weightlifting - M 110 snatch; C&J	185; 220; total 405	35	M109/110 class top total around 399-405; EG likely best total in same class

Additional table - Enhanced event average vs PB-competition field average

This table is deliberately conservative: where exact final field averages were not publicly available in the source pass, it states the limitation instead of inventing a number.

Athlete	EG event average	Competition used for athlete PB	Average at that PB competition	Notes
Fred Kerley	M100 EG avg 10.37	US Championships / elite season when PB 9.76	Elite final avg around 9.9-10.0	PB competition field stronger than EG
Emmanuel Matadi	M100 EG avg 10.37	Liberian/major championship PB context	World/Olympic heat-final averages usually sub-10.0 in finals	Open-source field average not uniform
Marvin Bracy-Williams	M100 EG avg 10.37	World Championships 2022 PB/medal season	WC final avg about 9.94	Same event; EG slower field
Reece Prescod	M100 EG avg 10.37	European/Commonwealth elite season	European 100 finals usually about 10.0-10.15	Same event
Tristan Evelyn	W100 EG avg 11.80	Barbados/NACAC PB context	Regional finals typically about 11.0-11.4	EG avg inflated by 13.30
Shania Collins	W100 EG avg 11.80	US championships PB context	US final/semifinal fields usually about 10.8-11.1	Same event
Jasmine Abrams	W100 EG avg 11.80	Guyana/regional PB context	Regional finals typically about 11.0-11.4	Same event
Hunter Armstrong	M50 back EG avg 25.22	World Championships / 50 back WR PB	WC 50 back final average usually about 24.5	Same event; non-Olympic
Cody Miller	M100 breast EG avg 60.97	Rio 2016 Olympic final PB period	Paris/Rio Olympic final avg around 59-60	Same event; EG weaker
Benjamin Proud	M50 free EG avg 21.48	World/European 50 free elite period	Championship final average around 21.4-21.7	Same event; EG best faster than Olympic champion
Kristian Gkolomeev	M50 free EG avg 21.48	European/World 50 free finals	Elite final average around 21.3-21.7	EG 20.81 was faster but not ratified
Marius Kusch	M100 fly EG avg 51.74	World/European PB period	WC/Olympic final avg around 50.5-51.0	Same event
Andrii Govorov	M50 fly EG avg 22.82	50 fly WR competition	World-level 50 fly final avg around 22.7-23.1	Same event; WR holder in EG field
Emily Barclay	W50 free EG avg 24.98	GB/National PB context	National/GB finals often around 24.5-25.5	EG result improved prior PB
Megan Romano	W100 free EG avg 55.64	US/World relay-era PB context	US/world final averages around 52-54	Same event; EG field much slower
Thor Bjornsson	Deadlift EG avg 457.5 kg	World Deadlift Championships / 510 kg record	Top strongman record-attempt fields not comparable to standard averaged finals	Same lift; equipment/rules matter
Mitchell Hooper	Deadlift EG avg 457.5 kg	Strongman deadlift peak season	Field average varies by implement and straps/suit rules	Same lift but different rules
Weightlifting entrants	Class averages listed on lift pages	IWF event where PB occurred	Not compiled in source pass	Exact same-category averages require IWF database extraction per athlete

PED evidence by substance category - quantified study outcomes

Substance/category	Controlled-study dose/protocol	Measured outcome	Result size	Direct relevance to EG events
Testosterone enanthate / AAS	Bhasin 1996: 600 mg/week testosterone enanthate for 10 weeks, with or without resistance training.	FFM, MRI muscle size, bench press, squat.	Testosterone + training: FFM +6.1 kg; bench +22 kg; squat +38 kg. Testosterone without training also increased strength and muscle size.	Most relevant to weightlifting/strongman and possibly sprint/power recovery; not a direct 100 m or 50 m swim trial.
Testosterone dose-response	Bhasin 2001/Storer 2003: GnRH suppression plus 25, 50, 125, 300, 600 mg/week testosterone enanthate for 20 weeks.	FFM, leg press strength, leg power.	FFM rose dose-dependently; high-dose groups reported about +3.4, +5.2 and +7.9 kg FFM; leg press strength/power increased dose-dependently.	Supports plausibility of lean-mass/force increases; sport technique still not measured.
hGH	Deyssig 1993: 0.09 U/kg/day GH for 6 weeks in trained male power athletes.	Max biceps/quadriceps strength, body composition.	No added strength or body-composition effect beyond training in this small trial.	Weak direct case for sprint/power unless combined with other agents.
hGH + testosterone	Meinhardt 2010: recreational athletes, 8 weeks GH; men subgroup also testosterone.	Sprint capacity, strength, power, endurance.	Sprint capacity improved with GH and more with GH+testosterone; strength/power/endurance did not show broad improvement.	Most relevant to swimming/sprinting, but recreational-athlete data not elite EG data.
EPO	RCTs in trained cyclists used rHuEPO for weeks to raise Hb/VO2 measures.	VO2max/max power/submaximal physiology/time trial or race output.	VO2max/power often improved; real-world race output effects are smaller and protocol-dependent.	More relevant to longer endurance than 50 m swim/100 m sprint; may matter for recovery/repeated rounds.
Stimulants	Methylphenidate/amphetamine-class studies include acute dosing such as 20 mg MPH in heat/time-trial settings.	Power output, time trial, fatigue perception.	One cycling heat study reported about 16% faster time-trial performance with higher power output and higher core temperature.	Relevant to effort/arousal and repeated high-intensity work; health-risk side is important.
Beta-2 agonists	Meta-analyses separate inhaled from systemic beta-2 agonists.	VO2max, time to exhaustion, peak power, sprint/strength.	Inhaled beta-2 agonists show little/no ergogenic effect; systemic beta-2 shows small/moderate effects on endurance/peak power in some analyses.	Only relevant if systemic beta-2 drugs were used; not specifically disclosed by EG.
Anastrozole/hCG	Clinical endocrine studies: anastrozole 1 mg/day in older men; hCG stimulates endogenous testosterone.	Testosterone/estradiol, bone markers, endocrine ratios.	Anastrozole increases testosterone in men but is not a direct performance trial; hCG raises testosterone/LH-related markers.	Ancillary support, not a direct performance enhancer in the available sports trials.

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Data limitations

Public sources do not disclose individual doping protocols or all same-category athlete PB histories. Where exact same-category data were not available, the report says so rather than substituting a different event as if it were equivalent.