

2014

**Anti-Doping Testing
Figures Report
(NDTL)**

2014 Anti-Doping Testing Figures Report (NDTL)

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TERMS AND ABBREVIATIONS

IC	: In-competition
OC	: Out-of-Competition
AAF	: Adverse Analytical Finding
CERA	: continuous erythropoietin receptor activator
GC-IRMS	: Gas Chromatograph Isotope Ratio Mass Spectrometer
EPO	: Erythropoietin
hGH	: Human Growth Hormone
HBT	: Homologous Blood Transfusion
HBOCS	: Haemoglobin Based Oxygen Carriers
NDTL	: National Dope Testing Laboratory
WADA	: World Anti-Doping Agency

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Table – 1: Total no. of Samples (Urine and Blood) received by NDTL

Sample	National	International	Total no of samples received
Urine	4159 (57.73%)	3045 (42.26%)	7204
Blood	305 (97.13%)	9 (2.86%)	314

Table – 2: Total no. of Samples (Urine & Blood) analysed by NDTL *

Sample	National	International	Total no. of samples analysed
Urine	4369 (59.88%)	2927 (40.11%)	7296
Blood	296 (98%)	6 (2%)	302

* These figure are from date of reporting (Jan. 2014 to 31st Dec. 2014)

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Table – 3: Details of Urine Samples tested at NDTL (Discipline-wise)

Discipline	Competition (C)			Out of Competition (OC)			Total (C + OC)
	Nat.	Int.	Total	Nat.	Int.	Total	
Athletics	825	215	1040	519	76	595	1635
Aquatics	85	70	156	58	54	112	268
Archery	-	6	6	90	9	99	105
Badminton	42	92	134	48	26	74	208
Body Building	-	24	24	1	44	45	69
Billiards	-	4	4	-	-	-	4
Basketball	40	51	91	47	11	58	149
Boxing	139	14	153	259	31	290	443
Bowling	-	-	-	-	4	4	4
Cricket	93	276	369	5	151	156	525
Cycling	57	226	283	65	11	76	359
Equestrian	-	-	-	10	1	11	11
Fencing	-	-	-	2	14	16	16
Foot ball	30	537	567	12	32	44	611
Golf	-	2	2	6	-	6	8
Gymnastics	-	20	20	40	5	45	65
Handball	-	60	60	14	8	22	82
Hockey	37	26	63	155	23	178	241
Judo	92	27	119	35	6	41	160
Karate	-	44	44	-	13	13	57
Kabaddi	50	25	75	92	-	92	167
Kayaking & Canoeing	17	-	17	43	8	51	68
Muaythai	-	42	42	-	-	0	42
Marathon	-	20	20	-	1	1	21
Pencaksilat	-	-	-	-	6	6	6
Powerlifting	54	4	58	5	6	11	69
Rugby	-	58	58	-	39	39	97
Rowing	38	-	38	31	1	32	70
Sailing	-	23	23	4	4	8	31
Shooting	14	79	93	119	7	126	219
Skating	-	-	-	-	5	5	5
Squash	10	11	21	14	-	14	35
Sepaktaraw	12	-	12	12	4	16	28
Table Tennis	4	6	10	53	19	72	82
Tennis	5	8	13	27	2	29	42
Triathlon	-	32	32	-	3	3	35
Taekwondo	34	26	60	43	24	67	127
Volleyball	14	40	54	48	10	58	112
Wrestling	42	-	42	210	12	222	264
Wushu	4	18	22	50	4	54	76
Wt. Lifting	326	74	400	136	37	173	573

Discipline	Competition (C)			Out of Competition (OC)			Total (C + OC)
	Nat.	Int.	Total	Nat.	Int.	Total	
Water polo	-	8	8	-	-	-	8
Yachting	-	-	-	28	-	28	28
Others	10	37	47	14	10	24	71
Total	2074	2206	4280	2295	721	3016	7296

Table – 4: Summary of urine samples tested for Erythropoietin (EPO) in Urine at NDTL.

Samples	National	International	Total	% AAF
Competition	78	26	104	0
Out of Competition	5	0	5	0
Total	83	26	109	

Table – 5: Summary of samples with Adverse Analytical Findings (Urine) reported by NDTL.

Samples	National	International	Total
Urine	103 (2.35%)	61 (2.08%)	164 (2.24%)
Blood	NIL	NIL	NIL

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Table – 6: Details of Samples with Adverse Analytical Findings (AAF) reported by NDTL (Discipline-wise).

Discipline	National	International	Total	% AAF
Athletics	32	4	36	21.95
Wt. Lifting	30	5	35	21.34
Powerlifting	23	-	23	14.02
Body Building	-	17	17	10.36
Boxing	2	3	5	3.04
Cycling	-	2	2	1.21
Judo	3	1	4	2.4
Wrestling	2	-	2	1.21
Foot ball	-	4	4	2.43
Kabaddi	2	1	3	1.82
Basketball	2	4	6	3.65
Aquatics	-	1	1	0.60
Table Tennis	-	1	1	0.60
Cricket	-	2	2	1.21
Handball	-	3	3	1.82
Taekwondo	3	-	3	1.82
Rugby	-	3	3	1.82
Shooting	1	-	1	0.60
Karate	-	1	1	0.60
Kayaking	1	-	1	0.60
Tennis	2	-	2	1.21
Volleyball	-	4	4	2.43
Marathon	-	1	1	0.60
Triathlon	-	1	1	0.60
Squash	-	1	1	0.60
Others	-	2	2	1.21
Total	103	61	164	

Table – 7: Summary – Substance identified in Each Drug Class

Substance Group		Occurrences	NDTL %	WADA %
S. 1	Anabolic Agents & other Anabolic Agents	156	69.33	48%
S. 6	Stimulants	26	11.55	15%
S. 5	Diuretics and Other Masking Agents	19	8.44	13%
S. 8	Cannabinoids	1	0.44	2%
S. 9	Glucocorticosteroids	9	4.00	8%
S. 4	Hormone and Metabolic Modulators	5	2.22	5%
S. 2	Peptide Hormones, Growth Factors and Related Substances	-	-	3%
S. 3	Beta – 2 Agonists	8	3.55	4%
P. 2	Beta Blocker	1	0.44	0.8%
	TOTAL	225		

NOTE: Few of the samples contained more than one drug or multiple findings on the same athlete

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Table – 8: Details of Samples with Adverse Analytical Findings reported by NDTL (Discipline-wise and in each drug class).

Discipline	S 1.1	S1.2	S3	S4	S5	S6	S8	S9	P2	Total
Athletics	31	3	3	-	2	4	-	2	-	45
Aquatic	-	-	-	-	-	1	-	-	-	1
Body Building	23	7	-	4	4	1	-	-	-	39
Basketball	2	2	-	-	-	2	-	2	-	8
Boxing	1	-	2	-	2	-	-	-	-	5
Cricket	2	-	-	-	-	-	-	1	-	3
Cycling	1	-	-	-	-	-	-	1	-	2
Foot ball	1	-	-	-	-	3	-	-	-	4
Handball	2	-	-	-	-	1	-	-	-	3
Judo	3	-	-	-	2	1	-	-	-	6
Kabaddi	6	-	-	-	-	-	-	-	-	6
Karate	-	-	-	-	-	1	-	-	-	1
Kayaking	-	-	-	-	-	-	-	-	-	-
Powerlifting	29	-	-	-	2	6	-	-	-	37
Rugby	2	-	-	-	1	-	-	-	-	3
Shooting		-	-	-	-	-	-	-	1	1
Squash	1	-	-	-	-	-	-	-	-	1
Table Tennis	-	-	-	-	-	1	-	-	-	1
Tennis	1	-	-	-	-	1	-	-	-	2
Taekwondo	2	-	-	-	1	-	-	1	-	4
Triathlon	-	-	1	-	-	-	-	-	-	1
Volleyball	5	-	-	-	-	1	1	-	-	7
Wrestling	1	-	1	-	-	-	-	-	-	2
Wt. Lifting	29	1	1	1	5	2	-	1	-	40
Others	1	-	-	-	-	1	-	1	-	3
Total	143	13	8	5	19	26	1	9	1	225

NOTE: Few of the samples contained more than one drug or multiple findings on the same athlete

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Table – 9: Substance Identified in Each Drug Class

S. 1.1 Anabolic Agents	Occurrences	% within drug class
Nandrolone metabolite(s)	26	18.18
Stanozolol	32	22.38
Methandienone	40	27.97
T/E ratio >4	15	10.49
Drostanolone	9	6.29
Metenolone	7	4.90
Trenbolone	1	0.70
Boldenone	1	0.70
Mesterolone	7	4.90
Epitrenbolone	2	1.40
Fluoxymestrone	1	0.70
Gestrinone	1	0.70
Methyltestosterone	1	0.70
	143	

TOTAL

S. 1.2 Other Anabolic Agents	Occurrences	% within drug class
Clenbuterol	13	100

TOTAL

S. 3 Beta – 2 Agonists	Occurrences	% within drug class
Terbutaline	8	100

TOTAL

S. 4 Hormone and Metabolic Modulators	Occurrences	% within drug class
Temoxifen	4	80
Letrozole	1	20
	5	

TOTAL

S. 5 Diuretics and Other Masking Agents	Occurrences	% within drug class
Acetazolamide	1	5.26
Canrenone/ Spironolactone	2	10.52
Chlorthalidone	1	5.26
Chlorthiazide	1	5.26
Furosemide	13	68.42
Hydrochlorthiazide	1	5.26
	19	

TOTAL

S. 6 Stimulants	Occurrences	% within drug class
Methylhexanamine (MHA)	7	26.92
Amphetamine	3	11.53
Mephentermine	9	34.61
Oxilofrine	1	3.84
Cocaine	1	3.84
Levo-Methamphetamine	1	3.84
Sibutramine	2	7.69
Ephedrine	1	3.84
Pseudoephedrine	1	3.84
Total	26	

TOTAL

S. 8 Cannabinoids	Occurrences	% within drug class
THC (Marijuana)	1	100

TOTAL

S. 9 Glucocorticosteroids	Occurrences	% within drug class
Budesonide	3	33.33
Prednisolone	2	22.22
Prednisone	2	22.22
Dexamethasone	1	11.11
Betamethasone	1	11.11
Total	9	

TOTAL

P.2 Beta-Blockers	Occurrences	% within drug class
Propranolol	1	100

TOTAL

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Table – 10: Details of sample tested for GC-IRMS analysis at NDTL.

<u>Sports Discipline</u>	<u>In-Competition (IC)</u>	<u>Out of Competition (OC)</u>	<u>Total (IC +OC)</u>	<u>% AAF</u>
Aquatics	-	1	1	1.79
Athletics	11	5	16	28.57
Archery	1	2	3	5.36
Badminton	1	1	2	3.57
Basketball	2	-	2	3.57
Hockey	1	-	1	1.79
Boxing	-	1	1	1.79
Cricket	2	-	2	3.57
Cycling	1	1	2	3.57
Kabaddi	1	1	2	3.57
Powerlifting	2	-	2	3.57
Shooting	1	-	1	1.79
Table Tennis	-	1	1	1.79
volleyball	-	1	1	1.79
Wrestling	1	2	3	5.36
Weightlifting	13	2	15	26.79
Wushu	-	1	1	1.79
Total	37	19	56	

AAF: Adverse Analytical Finding

Table –11: hGH, Transfusion, HBOCS, CERA and blood parameters test conducted at NDTL

Test Methods	In-Competition (IC)		Out of Competition (OC)		Total (IC + OC)	
	Sample	% AAF	Sample	% AAF	Sample	% AAF
hGH	14	0	193	0	207	0
HBT	0	0	44	0	44	0
HBOCS	14	0	292	0	306	0
Blood Parameters	0	0	74	0	74	0
CERA	14	0	221	0	235	0
