



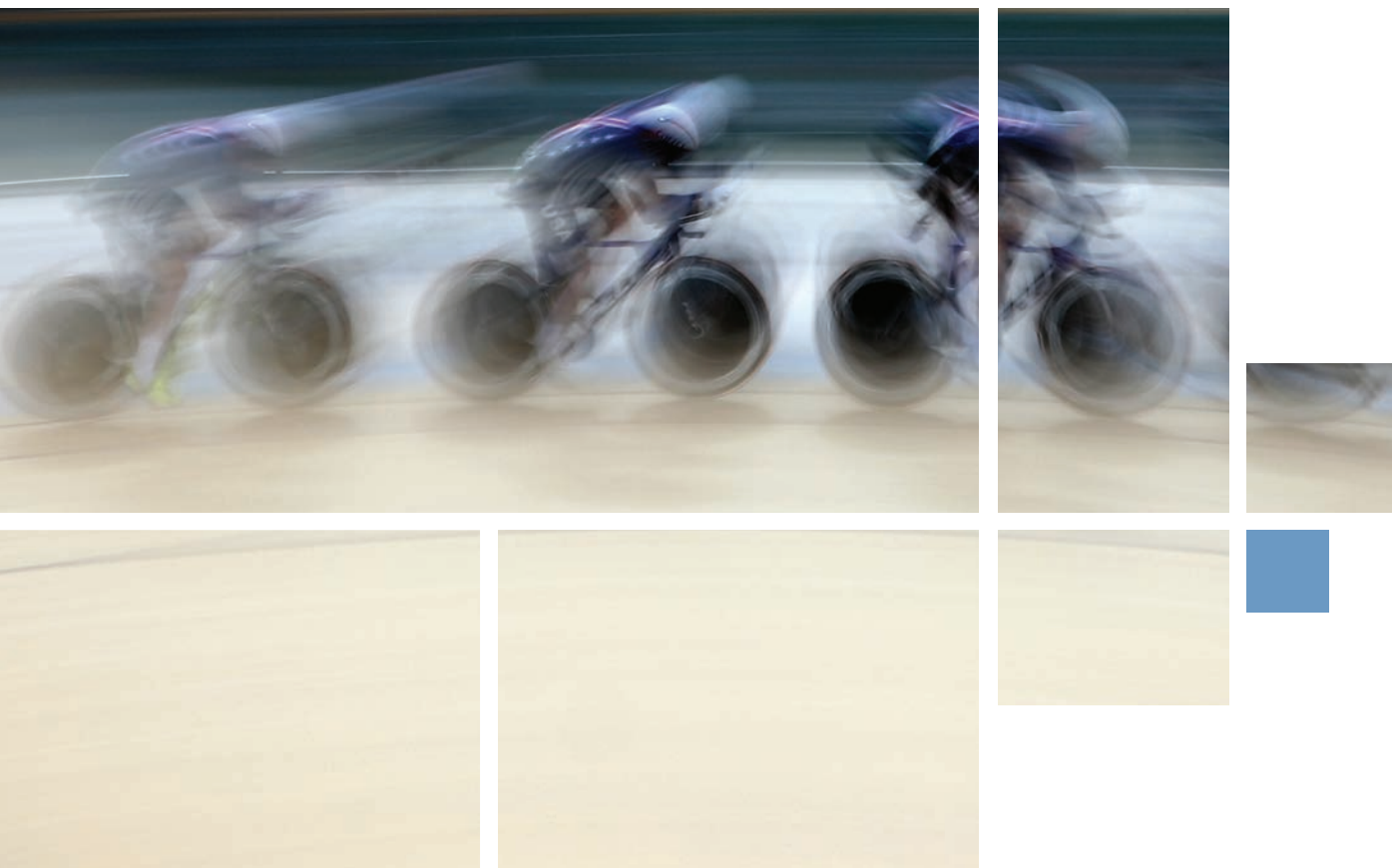
U.S. ANTI-DOPING AGENCY



2016



ANNUAL REPORT







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MESSAGE FROM THE  
c h a i r m a n & c e o



Despite its focus on global anti-doping issues, USADA's work always begins with ensuring excellence at home, and this was especially important in 2016, as both U.S. and foreign athletes trained around the country in preparation for the Rio Olympics.

In a year that saw both great turmoil and great fortitude in the global anti-doping movement, USADA's efforts to protect clean athletes and the integrity of sport became more global than ever before, starting with robust testing ahead of the Rio Olympic Games and extending to the development of global anti-doping reforms in partnership with National Anti-Doping Organizations (NADOs) around the world.

As always, athletes remained USADA's guiding light. Our initiatives throughout 2016 were driven by their right to a level playing field at all times and their demands for more accountability in sport. As their voices grew stronger, so too did the momentum behind USADA's fight for clean sport, inspiring and empowering our efforts for change at the highest levels of sport.

Despite its focus on global anti-doping issues, USADA's work always begins with ensuring excellence at home, and this was especially important in 2016, as both U.S. and foreign athletes trained around the country in preparation for the Rio Olympics. USADA's dedicated team of in-office staff and Doping Control Officers executed pre-Games education and testing plans to help ensure that the U.S. Olympic and Paralympic Teams were held to the highest standard before competing on the largest stage in sport.

Responding to U.S. swimmers' request for additional testing before the Games, USADA also partnered with the Fédération Internationale de Natation (FINA), and 14 other NADOs to develop a comprehensive, fair, and strategic test distribution plan that was carried out in the six months before the 2016 Olympic Games.

In Rio, we also saw athletes take on doping and advocate for their right to a level playing field, in part by voicing their frustration with the International Olympic Committee's decision not to ban the Russian Olympic Committee from the Games, and by praising the International Paralympic Committee's courageous decision to do the opposite. Their collective voices both motivated and informed USADA's subsequent work on global anti-doping reforms.

In partnership with leading NADOs from around the world, including Germany, Denmark, Norway, Japan, and Canada, USADA helped develop concrete reforms to address the most pressing issues facing the international anti-doping movement, including the inherent conflict of interest that exists when a sports organization is tasked with both promoting and policing itself. The reforms specifically call for a strengthened WADA through improved independence, greater transparency, and increased investment.

Since they were first proposed, the reforms have received tremendous support from athletes around the globe. USADA and its global partners will continue to push for these important changes to help ensure that athletes' right to a level playing field is supported by a strong and independent global anti-doping system.

**UFC**

While setting its sights on global anti-doping reform in Olympic sport, USADA also managed the first comprehensive independent anti-doping program in professional sports as the administrator of the international UFC Anti-Doping Program. In 2016, the Program continued to focus on educating athletes, and since its inception, the Program has hosted at least 25 in-person education seminars in numerous countries around the world. For many fighters, the Program represented a significant culture shift, and in order to help ease the transition, athletes have been provided access to numerous anti-doping resources in a multitude of languages. As anti-doping requirements became more familiar to the athletes, the Program also expanded its testing initiatives, going on to conduct testing at more than 40 events and completing nearly 2,000 out-of-competition tests in 25 countries around the globe in 2016.

Most importantly, the UFC Anti-Doping Program has received ongoing support from athletes who want the opportunity to fight and win in a clean Octagon. As the Program grows and evolves, USADA hopes that the culture of clean sport in the UFC will continue to grow as well.

Looking back on 2016, it stands out as a year when athletes and anti-doping leaders came together to ensure that athletes worldwide are held the same high standards. By fighting for global reform and holding athletes to a gold standard, USADA hopes that clean athletes will one day feel confident that they have the opportunity to compete clean and win on a level playing field. As always, USADA will do everything possible to protect the rights of those who choose to compete with integrity and we look forward to many more years in service of clean athletes.

**Edwin C. Moses**  
Chair, Board of Directors

**Travis T. Tygart**  
Chief Executive Officer

# team usada

## board of directors

The USADA Board of Directors is comprised of experienced and professional individuals who share the ideals and principles associated with USADA's vision, mission, and core values. The Board of Directors advise and support the staff in executing the work of the organization through its balanced and diverse perspectives. For more information on the USADA Board of Directors, please visit [www.USADA.org/board-of-directors](http://www.USADA.org/board-of-directors).

## leadership and senior staff

Based in Colorado Springs, Colorado, USADA's leadership and staff is responsible for managing and coordinating comprehensive anti-doping programs for the Olympic and Paralympic movements, as well as the UFC. USADA's initiatives include:

- Anti-doping education and resources
- Science and research projects
- Testing programs
- Results management and adjudication

USADA's dedicated and talented staff is comprised of 108 home office staff members and field-based Doping Control Officers who work together as a team to realize the organization's mission to: PRESERVE the integrity of competition, INSPIRE true sport, and PROTECT the rights of athletes.

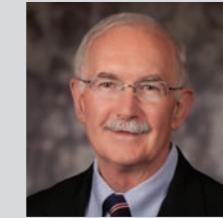
## staff home office



## board members



**Edwin C. Moses**  
ScD hc  
Chair



**Richard V. Clark**  
MD, PhD, FACP  
Vice Chair



**Marcia Lee Taylor**  
Secretary



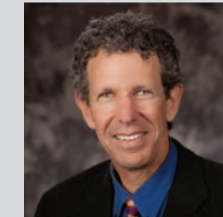
**Cheri Blauwet**  
MD  
Treasurer



**John Bardis**



**Philip Dunn**



**Jim Kooler**  
DrPH

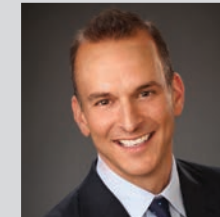


**Ken Wright**  
DA, AT Ret



**Donald Gambriel**

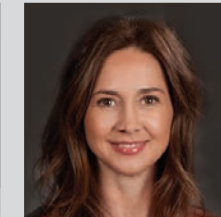
## leadership



**Travis T. Tygart**  
Chief Executive  
Officer



**Larry Bowers, PhD**  
Chief Science  
Officer (Retired  
November 30, 2016)

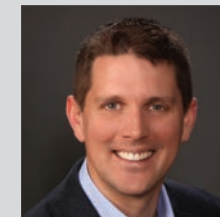


**Sandra Briggs, CPA**  
Chief Financial  
Officer



**John Frothingham**  
Chief Operating  
Officer

## senior staff



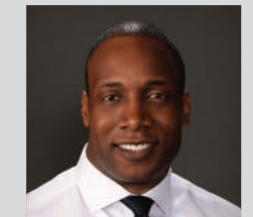
**Matt Fedoruk, PhD**  
Senior Managing  
Director of Science  
and Research



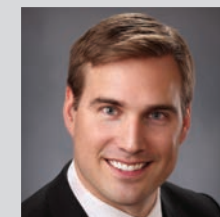
**William Bock, III**  
General Counsel



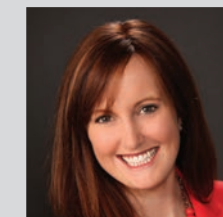
**Gabriel Baida**  
UFC Operations  
Director



**Onye Ikwuakor**  
Legal Affairs Director,  
Emerging and  
Pro Sports



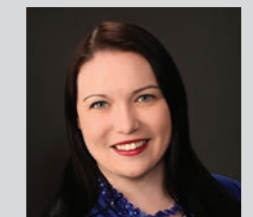
**Jeff Cook**  
Legal Affairs Director,  
Olympic Sport



**Molly Tomlonovic  
Norton**  
Anti-Doping  
Operations and  
Education Director



**Andrew Morrison**  
Sport Testing and  
Resources Director  
(Until August 2016)



**Annie Skinner**  
Director of  
Communications  
(Until July 2016)



game  
plan  
2020





Following the successful implementation of Game Plan 2016, USADA has re-committed itself to be at the forefront of the anti-doping movement. Game Plan 2020 outlines the goals and strategies we will rely on to deliver on our mission and fulfill our vision, thereby helping to craft a competitive culture where future generations can not only compete clean, but win clean as well.



GOAL



Build a culture of clean and healthy competition within competitive sport.

- Provide values-based education to inspire the next generation of clean athletes.
- Inform stakeholders with engaging and interactive education opportunities designed to deter doping and maximize awareness of key messages.
- Celebrate athletes who win clean, empower them to share their collective voices on a global scale, advocate on their behalf, and protect those who have the courage to speak out.

GOAL



Be a strong and influential partner in the global anti-doping community.

- Effectuate meaningful anti-doping change on behalf of clean athletes.
- Collaborate with leading anti-doping and sport organizations to ensure worldwide compliance and accountability.
- Forge new global anti-doping programs and partnerships.
- Leverage our relationships with government, law enforcement, and other constituencies to advance anti-doping initiatives.

GOAL



Leverage innovative research and technology, while employing strategic detection and deterrence methodologies, to preserve a level playing field for clean athletes.

- Be an independent leader in anti-doping detection and deterrence-based scientific research, methods, technology.
- Enhance testing capabilities and collaborative alliances.
- Continue to implement smart and strategic testing plans that fully integrate intelligence gathering and investigations, while maximizing perceptual deterrence principles.
- Conduct effective testing that ensures the integrity of the process, and the health and safety of the athletes.

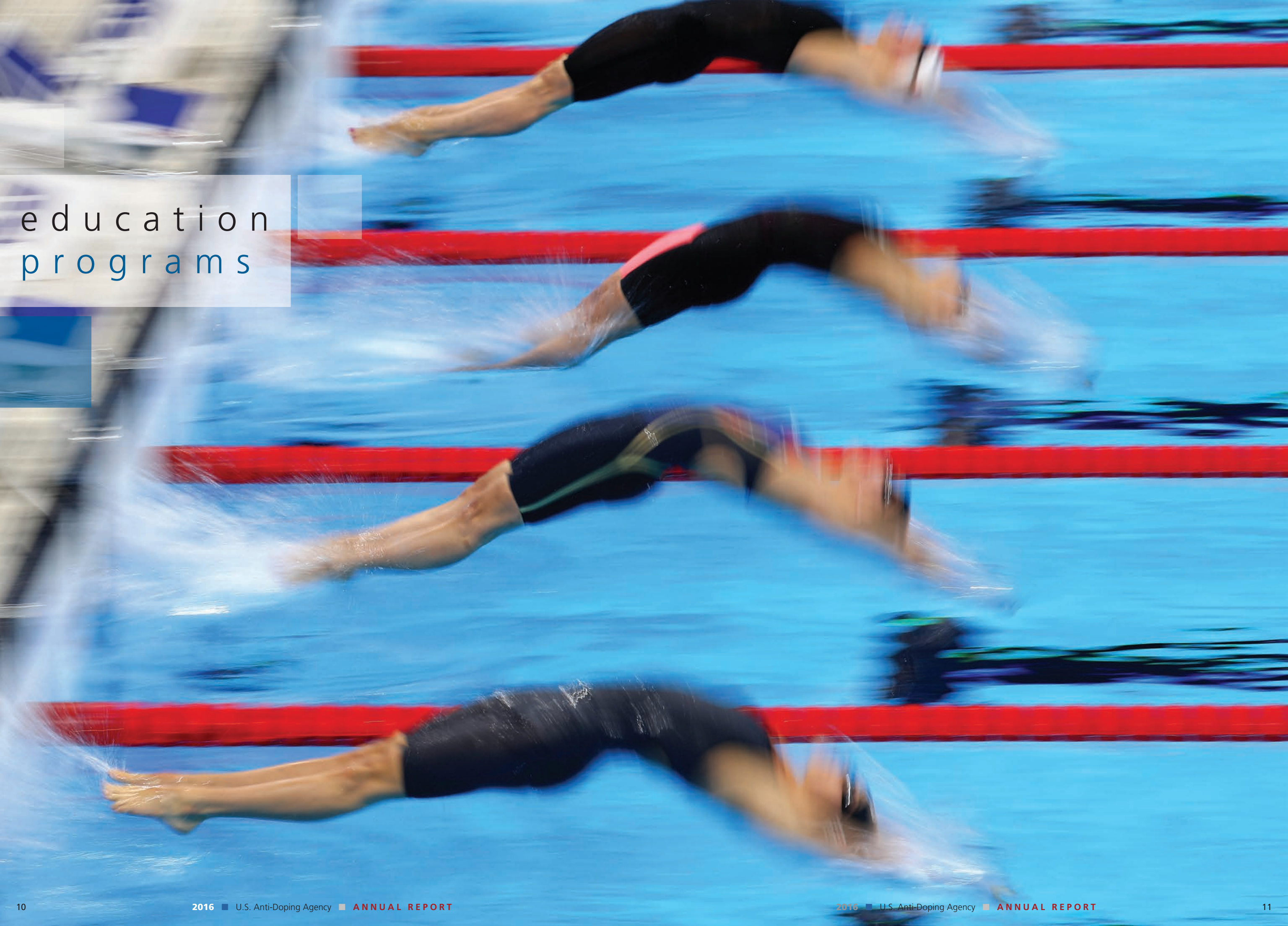
GOAL



Govern and manage responsibly.

- Advance the independent administration of anti-doping efforts to ensure that our mission is free of any conflict of interest.
- Deliver exceptional service to our stakeholders and ensure that all athletes are treated fairly and consistently under the rules.
- Operate in alignment with financial, technological, and human resources best practices.
- Capitalize on our value and select strategic opportunities that best serve our mission.
- Implement performance metrics across all programs and services to ensure organizational excellence.
- Energize and retain a highly engaged and effective team.





education  
programs



Recognizing that education is key to prevention and the first line of defense for clean sport, USADA provides education to thousands of athletes, coaches, trainers, medical staff, and other athlete support personnel each year. Through in-person and online education, as well as a multitude of other resources, USADA helps ensure that athletes and support personnel have the tools they need to navigate the anti-doping program and understand the role they play in keeping sport clean.



## Education Provided

USADA provided education to more than **12,000 ATHLETES AND SUPPORT PERSONNEL**.

Education team completed more than **100 FACE-TO-FACE PRESENTATIONS**

- They also traveled to more than **30 CITIES** for in-person presentations and education booths.



**EVERY ATHLETE COMPETING IN THE 2016 OLYMPIC GAMES IN RIO** received supplemental, Games-specific education from USADA before the Games.

Almost **200,000 COACHES** received education content each quarter through the **USOC COACHES NEWSLETTER**.



## Education Tutorials

More than **4,000** athletes took USADA's annual **ATHLETE'S ADVANTAGE** educational tutorial, including **REGISTERED TESTING POOL ATHLETES**, those training at the **OLYMPIC TRAINING CENTER**, and **YOUTH OLYMPIC GAMES** athletes

- **4,118 ATHLETES** completed the Athlete's Advantage Tutorial



**260 COACHES** completed the **COACH'S ADVANTAGE TUTORIAL**



## Education at Events

- Athletes visited USADA's booth at **OLYMPIC** and **PARALYMPIC TEAM PROCESSING** before the Rio Games.
- The USADA Education team took part in **DINING HALL CHATS** and **NEW ATHLETE ORIENTATIONS** at all three **OLYMPIC TRAINING CENTERS**.
- USADA hosted education booths at the **WORLD BOBSLED CUP** and **USA ARCHERY COACH SYMPOSIUM**.



- USADA staff met with athletes at Olympic Trials for **USA SWIMMING**, **USA WEIGHTLIFTING**, and **USA TRACK & FIELD**.

## Education Evaluation

More than **400** athletes completed USADA's **EDUCATION PRESENTATION EVALUATION SURVEY**

More than  
**95%** OF ATHLETES  
**93%** OF ATHLETES

Felt the **INFORMATION PRESENTED** would be **USEFUL** in their **SPORT**

Said they would **BE MORE CAUTIOUS** about **SUPPLEMENTS** after the presentation

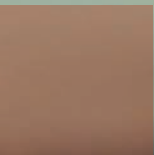
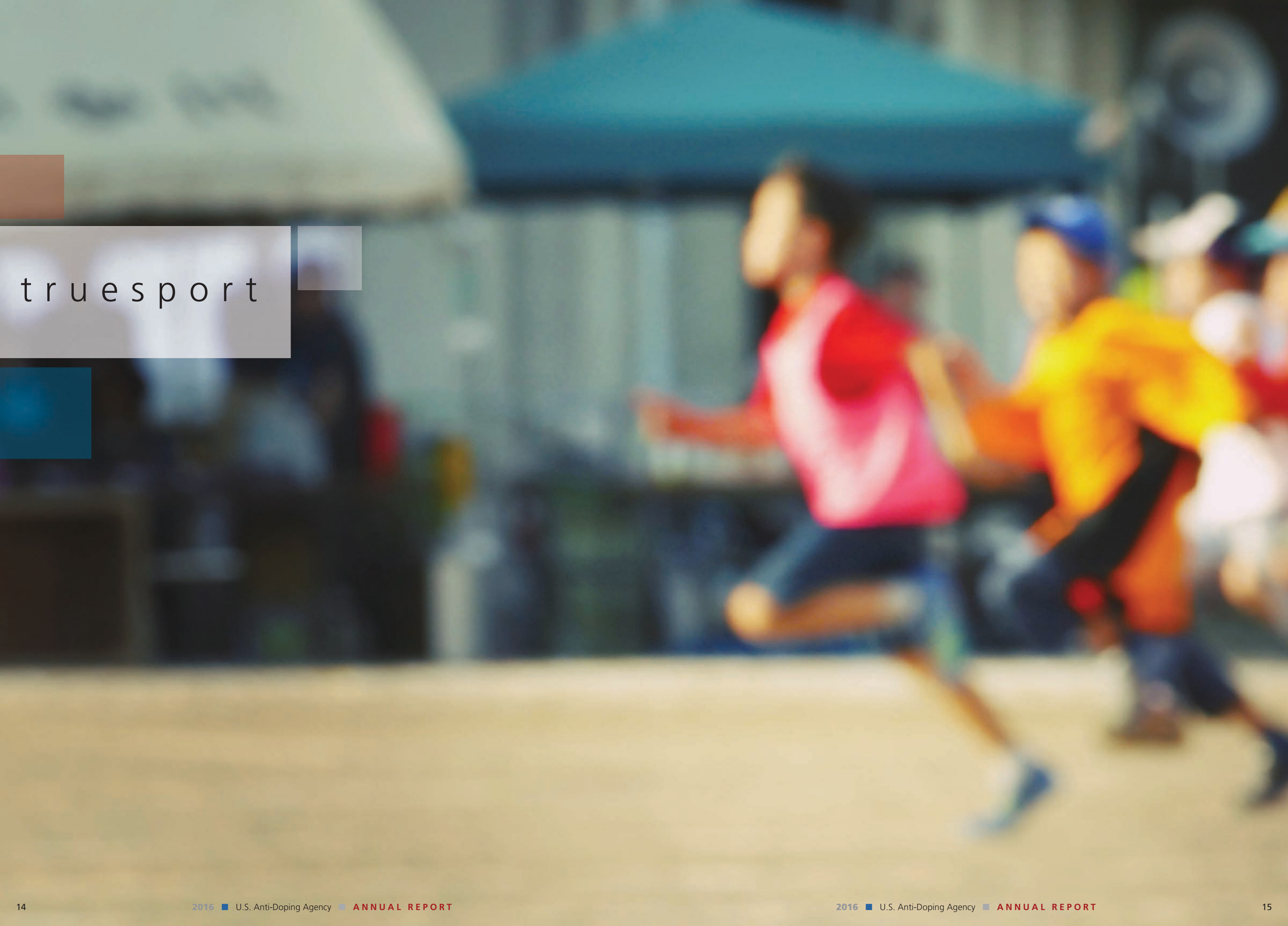
"The information was presented in a very concise manner and with clarity. It clearly emphasized that the accountability is on the athlete - no excuses!"

"Thank you for educating us!! Also, the documentation you gave us was so helpful, I grabbed an extra set to bring home to my coach. I think all of the information was invaluable, and really hammered home the importance of clean sport."

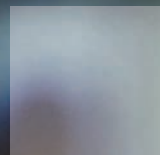
"The videos were very informative and powerful. Great presentation, can't imagine a better way to inform me about doping and USADA's role! Thanks!"

Athlete  
Feedback on  
Education  
Presentation





truesport







TrueSport is a grassroots movement dedicated to promoting a positive youth sport experience that helps young athletes build the life skills and core values for success...on and off the field.

## ACHIEVEMENTS



**A NEW TAGLINE:**  
**We Value Champions.  
We Champion Values.**

**5.6M** People reached through partner programs, events, and social media



**A REIMAGINED WEBSITE:  
WITH TEACH, LEARN, AND  
PLAY PLATFORMS**



**NEW MATERIALS  
FOR PARENTS,  
COACHES,  
AND  
ATHLETES**



**A SIGNATURE  
VIDEO  
FEATURING  
TRUESPORT  
PARTNERS**



## Partners

**DELIVERED TRUESPORT PROGRAMMING TO SPORT PARTNERS:**

- Air Force Academy
- USA Volleyball
- Colorado College Volleyball
- LXTC Lacrosse Training Center
- Landsharks Running Club
- A's & Aces
- Big Sandy School in Simla, CO
- USA Swimming



### Partner Feedback

"Offering the TrueSport curriculum is an added benefit that others simply can't offer and I know that our campers and parents see great value in attending a camp that offers the TrueSport curriculum."

NICK KIGER – Associate Athletic Director, Air Force Athletics

"Over the past two years, we've had great success with our Deck Pass TrueSport partnership creating a positive culture for our USA Swimming membership through the TrueSport lessons."

JIM FOX – Marketing Director, USA Swimming

"This program allows us to teach our future Olympians the lessons that will guide them on the path to their Olympic dreams, but it also sets them up to be leaders in the real world."

DENISE SHELDON – Former USA Volleyball Indoor High Performance Manager





## Athlete Ambassador and Advocate Engagement

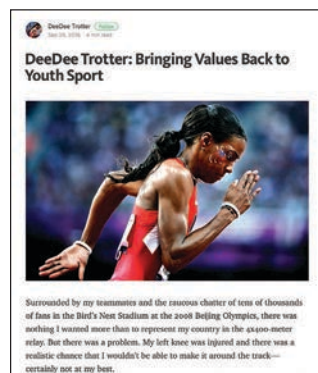
Peter Vanderkaay at the 2016 U.S. Olympic Team Trials for Swimming

TrueSport Ambassador and Olympic Gold and Silver medalist **LAURYN WILLIAMS** taught goal-setting lessons to kids with the A's & Aces program – a tennis-based sports nonprofit for youth development in New Orleans.

**PETER VANDERKAAY**, a four-time Olympic medalist and TrueSport Ambassador, attended the 2016 U.S. Olympic Team Trials for Swimming to speak to and get interviewed by kids about his swimming career and role as a TrueSport Ambassador.

Two-time Olympic indoor volleyball athlete **OGONNA NNAMANI** spoke about perseverance and goal-setting to a Colorado College Volleyball Camp via Skype.

Through USA Swimming's Deck Pass app, TrueSport delivered videos of TrueSport Ambassador, two-time Olympic medalist, and five-time World Champion **ELIZABETH BEISEL**, who introduced TrueSport lessons on topics like nutrition, energy drinks, and bullying prevention.



In September 2016, TrueSport Ambassador **DeeDee Trotter** used the blog platform *Medium* to explain the importance of values in youth sport and why competing with integrity is invaluable.



TrueSport Advocate and former USA Volleyball National Team Member **Candace Vering** presented to elementary students.

MORE THAN **10,320** PARTICIPANTS TOTAL

- YMCA Healthy Kids Day, Colorado Springs, Colo. (April 30th)
- 2016 U.S. Olympic Team Trials for Swimming, Omaha, Neb. (June 23 - July 3)
- Olympic Downtown Celebration, Colorado Springs, Colo. (Aug. 5th)
- Western Zone Swim Championship, Salt Lake City, Utah (Aug. 11th)
- Academy International Elementary Reading Olympics, Colorado Springs, Colo. (Sept. 9th)
- Kilmer Elementary Olympic Field Day, Colorado Springs, Colo. (Sept. 28th)



All events featured the signature TrueSport Scavenger Hunt

## Survey Feedback from Camp Participants and Parents

"I see poor sportsmanship from players and parents at every level, and the philosophy of TrueSport should be taught to EVERY team!! It would make for a much better sporting environment for the players and the parents!"

**96%** said TrueSport had a positive impact

**94%** said TrueSport added value to the program

**96%** stated TrueSport is a meaningful program

**94%** of program participants said they applied or will apply what they learned

"All children need to learn that character and ethics are more important than winning."

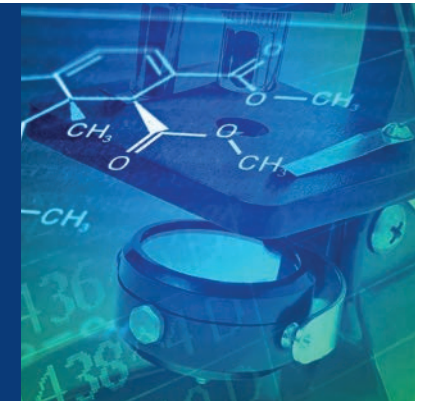


science



USADA  
science

Science plays a crucial role in the fight for clean competition, and USADA's expert scientists are leaders in the global anti-doping community. USADA's science team has an especially significant impact on research and scientific advancement related to detecting and deterring the use of performance-enhancing drugs in sport.



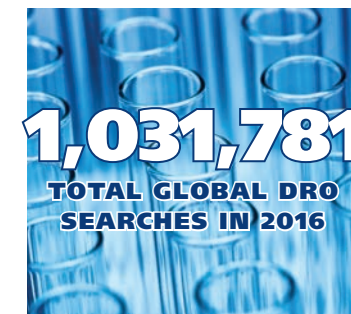
### Global DRO Gets More Global

Two more countries joined the network of national anti-doping organizations empowering athletes to easily determine if a licensed prescription or non-prescription medication is prohibited or permitted in accordance with the World Anti-Doping Agency Prohibited List.



The **AUSTRALIAN SPORTS ANTI-DOPING AUTHORITY (ASADA)** became a **GLOBAL DRO LICENSEE** in April 2016

**ANTIDOPING SWITZERLAND (ADCH)** became a **GLOBAL DRO PARTNER** in December 2016

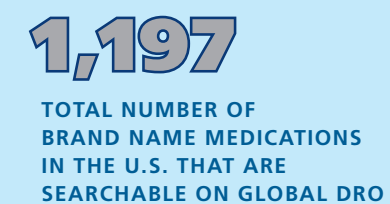
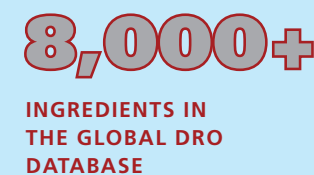


#### Total Searches in 2016 By Country

Australia	211,918
Canada	126,570
Japan	196,379
Switzerland	3,954
U.K.	310,823
U.S.	182,137

#### Top 10 Searches in the U.S.

Cannabis
Albuterol 90mcg/actuation Inhalation Aerosol
Caffeine
Flonase 50mcg/actuation Nasal Spray
Salbutamol
Phenylephrine
Zyrtec 10mg Tablet
Cortisone
Meldonium
PROAIR HFA 90mcg/actuation Inhalation Aerosol



### Drug Reference Line and Athlete Express

#### Answering Questions from Athletes and Support Personnel

- 1,032:** Number of emails to the Drug Reference team asking drug and supplement questions in 2016

Question Topics	# of Calls to Athlete Express
Supplements	86
Testing/Whereabouts	88
Medications or Prohibited List	404
TUEs	566
<b>Total Calls</b>	<b>1,144</b>





USADA Maintains:

- Supplement 411 High Risk List
- Department of Defense Operation Supplement Safety High Risk List



High Risk List in 2016:

- Products are added to the High Risk List if they advertise, or if analytical testing shows, that they contain substances prohibited in sport.
- 76 products were added, bringing the total number of products to 274
- 164 different companies are represented on the High Risk List

2016 USADA Supplement High Risk List	
Prohibited Class of Compound in the Product	Number of Products
Anabolic Agents	127
Diuretics	4
Hormones or Metabolic Modulators	20
Peptide Hormones	14
Stimulants	109
<b>TOTAL</b>	<b>274</b>

New Tools:

- Red Flag Checklist
- Grants
  - In partnership with the Uniformed Services University, USADA completed the Nutritional Resilience Assessment Module in 2016 and continued the Warfighter Performance Index and Supplement Safety.



Leading academics and outside experts from more than 30 countries and diverse scientific fields convened for the USADA Annual Symposium on Anti-Doping Science, in Bellevue, Washington, to explore the theme, **“Recovery, Repair, and Regeneration: From Steroids to Stem Cells.”**

Over the course of the Symposium, participants discussed:

- Molecular biology of skeletal muscle
- Testosterone mechanisms
- Hypogonadism and hyperandrogenism
- Stem cell therapies
- Agents for muscle growth and metabolism

<b>32</b> COUNTRIES REPRESENTED	<b>89</b> ATTENDEES
---------------------------------------	------------------------



**HEALTHPRO ADVANTAGE – Anti-Doping Education For The Health Professional**

In July 2016, USADA and Stanford University School of Medicine launched HealthPro Advantage: Anti-Doping Education for the Health Professional, which is the first and only anti-doping course in the world offering continuing medical education (CME) credit to physicians. HealthPro Advantage covers six key areas of anti-doping knowledge and is particularly valuable to medical professionals who interact with athletes.

Since its launch on July 22:

- **176** sports health professionals enrolled
- **80** physicians received CME credit for Health Pro Advantage in 2016



## Anti-Doping Research

USADA's long-time Chief Science Officer, Dr. Larry Bowers, published an article with Dr. Raymond Paternoster, a well-respected criminology professor from the University of Maryland, in the journal *Sport, Ethics and Philosophy* titled: "Inhibiting doping in sports: deterrence is necessary, but not sufficient."

- <http://dx.doi.org/10.1080/17511321.2016.1261930>

As a continuation of USADA's leadership in the field of supplement research and its ongoing work with the Department of Defense, Dr. Amy Eichner, USADA's Special Advisor on Drug Reference & Supplements, published this article in 2016:

- Attipoe S., Cohen, P.A., Eichner, A., Deuster, PA. Variability of Stimulant Levels in Nine Sports Supplements Over a 9-Month Period. *Int J Sport Nutr Exerc Metab.* 2016 Oct;26(5):413-420

### Celebrating Dr. Larry Bowers' Contributions to Anti-Doping Science

After 16 years of exceptional years of service, USADA's Chief Science Officer retired in November of 2016. A globally recognized anti-doping science expert, Dr. Bowers has served as USADA's Chief Science Officer since 2009.

With his cutting-edge work on anti-doping science, Dr. Bowers has been an invaluable leader at USADA and an instrumental asset to the global anti-doping community. Dr. Bowers also initiated the Science Symposium in 2002 to foster international collaboration in anti-doping science, and he led a total of 15 Symposiums.



## Partnership For Clean Competition



The Partnership for Clean Competition (PCC) is a nonprofit organization working to protect the integrity of sport and public health by supporting the world's top scientists in high-quality anti-doping research and developments. More than \$18 million has been awarded to support anti-doping research since the PCC's founding in 2008. In 2016:

- 12 grants, 9 micro-grants, 1 working group, and 1 fellowship were awarded funding
- \$2,890,399 in funding was awarded

### PARTNER UPDATE:

In 2016, the PGA TOUR, renewed its commitment to protecting clean athletes through a four-year investment in anti-doping science. After a one-year absence, the National Hockey League also renewed its commitment to anti-doping science through a two-year investment in 2016.

### PCC RESEARCH SPOTLIGHT:

**IGF-1:** The PCC facilitated a unique approach to solving an important anti-doping challenge by uniting researchers from six different labs and various scientific fields. The researchers developed new IGF-1 detection methodology and significantly improved the precision of detection results across labs.

**DRIED BLOOD AND PLASMA SPOTS:** The PCC is collaborating with leading scientist Dr. Jack Henion to investigate alternative matrices that can reduce costs and facilitate the collection of samples more frequently.

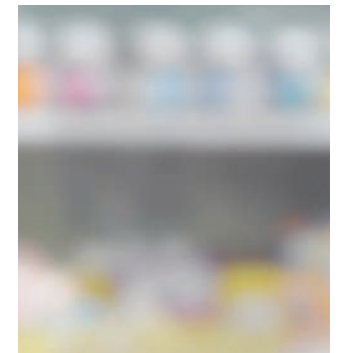
**BREATH DETECTION TECHNOLOGY:** Building upon interest in alternative matrices and less invasive collection methods, the PCC has funded research to determine the applicability of breath detection technology in anti-doping settings.

USADA recognizes that athletes, like all people, may have conditions or illnesses that require them to take particular medications or undergo procedures. If the substance or method prescribed to treat that medical condition is prohibited by the World Anti-Doping Agency (WADA), athletes can apply for a Therapeutic Use Exemption (TUE), and if granted, obtain permission to use a prohibited substance or method in sport for a specified time-period.

### 2016

## TUE Application Outcomes

	U.S. ITP/RTP	U.S. Non-National	Total
Granted	128	270	398
Denied	19	77	96
<b>Totals</b>	<b>147</b>	<b>347</b>	<b>494</b>



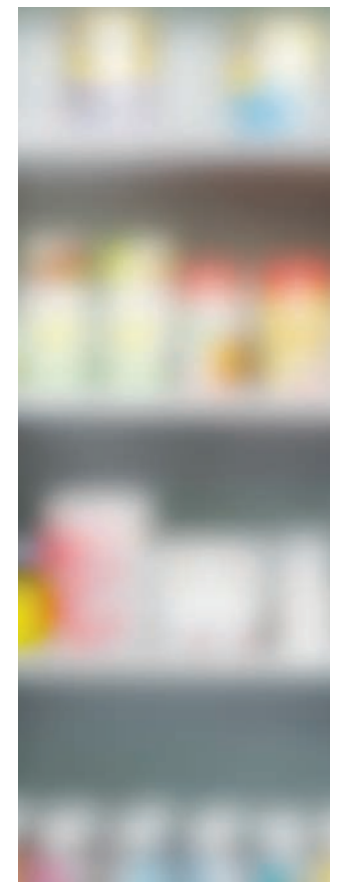
### 2016

## TUEs Granted by Prohibited List Category and Athlete Competition Level

This table represents TUEs granted to U.S. athletes by either USADA or their respective International Federation.

2016 WADA Prohibited List Category	U.S. ITP/RTP	U.S. Non-National
S1 - Anabolic Agents	3	15
S2 - Peptide Hormones, Growth Factors, Related Substances, and Mimetics	2	20
S3 - Beta-2 Agonists	5	7
S4 - Hormone and Metabolic Modulators	2	34
S5 - Diuretics and other Masking Agents	11	21
S6 - Stimulants	27	111
S7 - Narcotics	11	5
S8 - Cannabinoids	2	0
S9 - Glucocorticoids	44	38
M1 & M2 - Prohibited Methods	20	17
P2 - Beta Blockers	1	2
<b>Totals</b>	<b>128</b>	<b>270</b>

ITP = International Testing Pool  
RTP = Registered Testing Pool  
Non-National = All other athletes not in a Registered Testing Pool



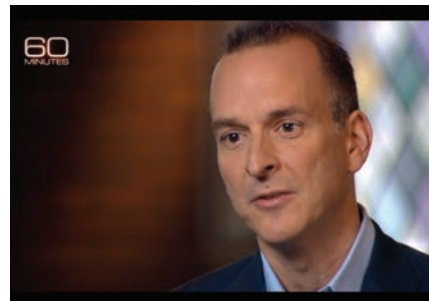




usada's  
global  
reach



**COME CLEAN, RUSSIA, OR NO RIO** On May 25, 2016, an op-ed by USADA's CEO Travis T. Tygart was published in the New York Times in which he called for a strong response to state-supported doping in Russia, as well as the separation of those who promote sport and those who police it.



**60 MINUTES ON RUSSIAN DOPING SCANDAL** Tygart appeared on CBS' 60 Minutes special "Russia's Dark Secret" on May 8, 2016, during which he discussed the scope of state-supported doping in Russia and called for meaningful repercussions. Appearing alongside whistleblowers Vitaly and Yuliya Stepanov, Tygart also emphasized the importance of protecting whistleblowers who speak out for clean sport.

**CYCLING TESTING COLLABORATION** USADA and the Union Cycliste Internationale (UCI) established a formal collaborative partnership to facilitate extensive cooperation through the sharing of relevant anti-doping information, intelligence and athlete biological passport data, and participation in joint investigations, testing missions, and other initiatives.

**#COMPETECLEANORGOHOME CAMPAIGN** In preparation for the 2016 Rio Olympics, USADA launched the #CompeteCleanorGoHome campaign, which gave athletes a voice in the fight for clean sport. The campaign allowed athletes to create memes on why they compete clean and to share their support for clean competition on social media.



## Global Anti-Doping Reform


Working alongside partners from across the globe, USADA helped develop reform proposals to tackle some of the most pressing issues facing the international anti-doping movement. In 2016, the group of national anti-doping organizations (NADOs) met twice and proposed wide-ranging governance reforms for all anti-doping organizations, including WADA, in an attempt to better promote independence from sport. USADA continues to push for immediate change in order to restore the confidence of clean athletes and those who value the integrity of sport.

## The Proposed Reforms

- Remove the fundamental conflict of interest that exists when anti-doping decisions are controlled by sport organizations.
- Strengthen WADA through improved independence, transparency, and increased investment.
- Increase WADA's ability to investigate, and impose sanctions, so that countries which engage in state-supported doping are held accountable.
- Exclude Russian sports organizations from all international competitions – with a uniform process for athletes to compete as neutrals until substantive progress in reform efforts are made; as well as enforce the removal of all major international competitions from Russia.
- Provide the opportunity for athletes who have been robbed by doping to have a formal medal ceremony conducted at the Olympic Games or World Championship following the approval of medal reallocation.
- Increase support for whistleblowers around the world.







d c o  
o p e r a t i o n s



USADA has more than 50 highly trained doping control officers (DCOs) stationed throughout the United States. USADA DCOs receive extensive training and evaluation on all aspects of the sample collection process, including best practices for in and out-of-competition tests, and modifications for disabled and minor athletes. DCOs are also a resource for athletes and help them properly complete all paperwork.

**52** U.S.-BASED  
DCOs AT  
THE END  
OF 2016

## DCO Conference

SEPTEMBER 9 – 11, PHOENIX, ARIZ.

Held every two years, this year's DCO Conference focused on celebrating USADA's DCOs and drawing attention to the service they provide to clean athletes, which goes above and beyond simply collecting a sample – it's "More than 90".



The theme "More Than 90" reflects the remarkable effort put forth by our DCOs, which extends far beyond the collection of a sample and includes the unabridged service they provide to clean athletes each and every day.



### Athlete Guest Speakers

- Keynote Speaker and Olympian **Alysia Montano**
- UFC Athlete **Henry Cejudo**

### International Participants

- **4** of USADA's DCOs from Brazil
- **10** representatives from national anti-doping organizations worldwide

### Topics of Discussion

- Test Planning and Best Practices
- Updates to USADA's Paperless System
- Using Intel and Investigations to Improve Testing
- Upcoming Advancements in Testing Methods
- Development of the UFC Program
- Decision-Making Workshop



## 2016 Rio Olympics

- Four USADA DCOs supported anti-doping efforts at the Games:
  - Kris Forberg
  - Cary Hall
  - Amy Brenner
  - Kristi Moore



USADA DCO **Cary Hall** (L) with other DCOs in Rio



## Brazil DCO Program

- USADA hired 11 independent contractor DCOs to meet UFC testing needs in Brazil



UFC Fight Night in Sao Paulo, Brazil, on November 19th

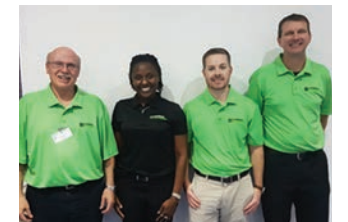
Pictured from left to right:  
**Rafael Trindade, Pedro Soares, Lara Santi, Mike Thompson, Carol Siqueira, John Frothingham, Joao Antonio**

DCOs completed **92** OUT-OF-COMPETITION TESTS IN BRAZIL

DCOs completed testing at **3** UFC EVENTS IN BRAZIL

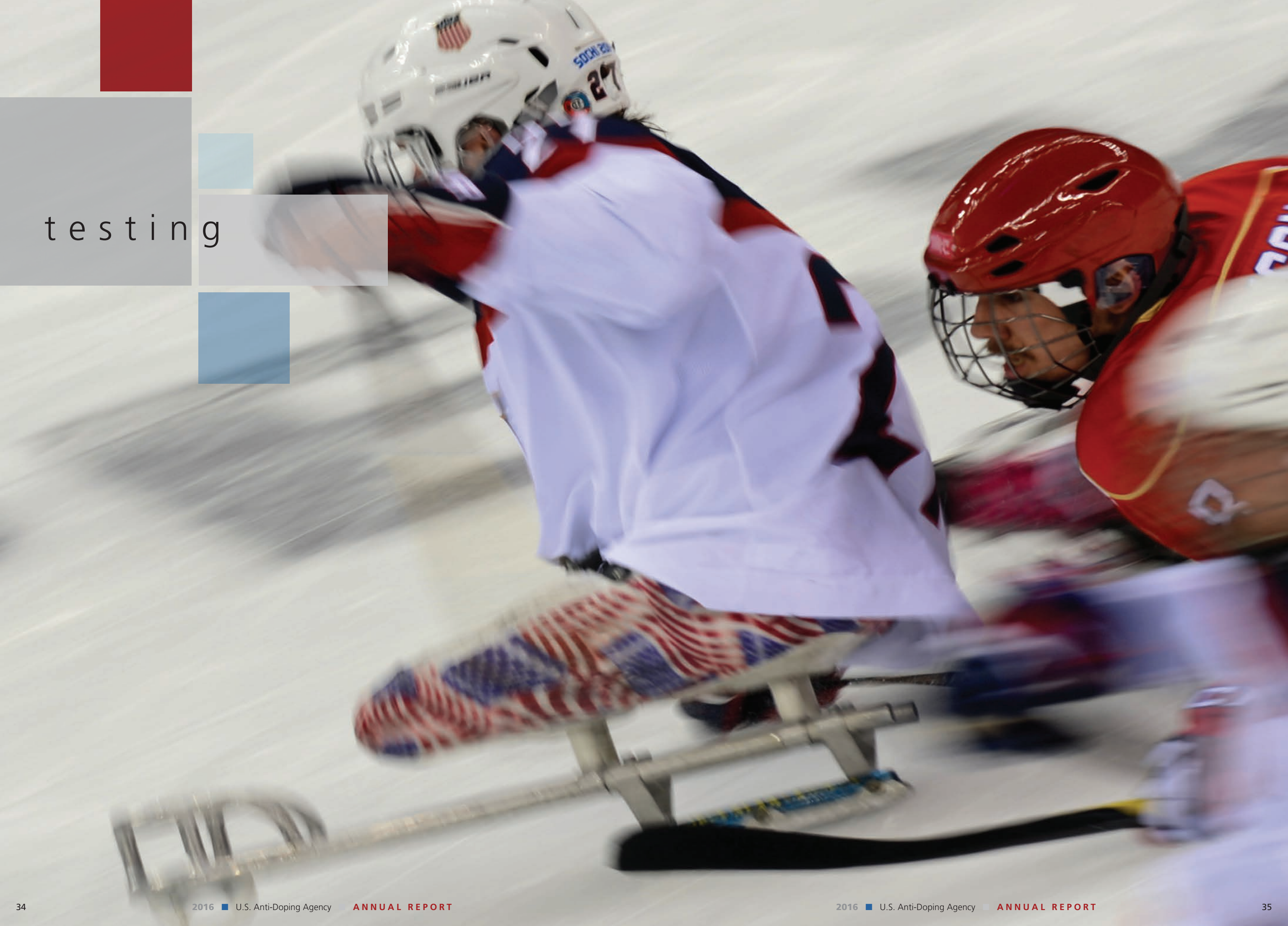
## Caribbean Regional Anti-Doping Organization DCO Training:

- Widely considered the 'Gold Standard of Testing' and a global leader in the anti-doping community, USADA is often asked to provide experience and expertise to other NADOs. In 2016, USADA collaborated with the Caribbean Regional Anti-Doping Organization and was asked to deliver an extensive DCO training program that consisted of curriculum instruction, practical evaluations, and best practices for adhering to the policies and guidelines outlined in the International Standard for Testing and Investigations.
  - ▶ When: November 4 – 6
  - ▶ Where: Barbados
  - ▶ Outcome: Trained and certified 65 DCOs from 17 member countries



Pictured from left to right: **Arnold Thomas**, USADA Regional Team Lead DCO, **Sasha Sutherland**, CARADO Executive Assistant, **Mike Thompson**, USADA DCO Operations Manager, **Dennis Perkey**, USADA Lead DCO





t e s t i n g



2016  
TESTING numbers by sport

SPORT	2016 OOC* Tests	2016 IC** Tests	2016 Total Tests	SPORT	2016 OOC* Tests	2016 IC** Tests	2016 Total Tests
Airports	2	0	2	Speedskating	122	72	194
American Football	23	0	23	Squash	13	10	23
Archery	13	14	27	Surfing	2	0	2
Auto Racing	1	0	1	Swimming	658	413	1,071
Badminton	11	6	17	Synchronized Swimming	6	4	10
Basketball	82	4	86	Table Tennis	12	6	18
Biathlon	45	12	57	Taekwondo	15	61	76
Bobsled & Skeleton	110	16	126	Team Handball	16	7	23
Bowling	17	0	17	Tennis	78	0	78
Boxing	107	18	125	Track & Field	2,001	785	2,786
Brazilian Jui-Jitsu	0	10	10	Triathlon	514	169	683
Budo	4	0	4	Volleyball	164	24	188
Canoe & Kayak	33	49	82	Water Polo	53	12	65
Cheerleading	0	12	12	Water Skiing	18	5	23
Chess	0	2	2	Weightlifting	253	225	478
Climbing	0	2	2	Wrestling	95	155	250
Curling	13	12	25	Paralympic Alpine Skiing	15	4	19
Cycling	759	639	1,398	Paralympic Archery	12	13	25
Diving	22	32	54	Paralympic Basketball	48	0	48
Equestrian	20	20	40	Paralympic Bobsled & Skeleton	0	12	12
Fencing	26	23	49	Paralympic Boccia	1	0	1
Field Hockey	43	0	43	Paralympic Canoe	6	0	6
Figure Skating	36	53	89	Paralympic Curling	6	6	12
Fishing	0	4	4	Paralympic Cycling	46	29	75
Golf	33	4	37	Paralympic Equestrian	2	6	8
Gymnastics	73	45	118	Paralympic Fencing	2	0	2
Ice Hockey	31	36	67	Paralympic Goalball	16	8	24
Judo	53	9	62	Paralympic Judo	19	7	26
Karate	12	14	26	Paralympic Nordic Skiing	3	0	3
Kickboxing	3	0	3	Paralympic Powerlifting	9	0	9
Lacrosse	18	0	18	Paralympic Rowing	13	2	15
Luge	28	12	40	Paralympic Rugby	24	0	24
Mixed Martial Arts (UFC)	1,971	318	2,289	Paralympic Sailing	8	0	8
Modern Pentathlon	18	12	30	Paralympic Shooting	9	4	13
Motocross	10	16	26	Paralympic Sled Hockey	11	4	15
Professional Boxing	139	32	171	Paralympic Snowboard	6	3	9
Racquetball	8	11	19	Paralympic Soccer	26	0	26
Roller Sports	8	14	22	Paralympic Swimming	42	38	80
Rowing	84	32	116	Paralympic Table Tennis	8	0	8
Rugby	217	15	232	Paralympic Tennis	18	0	18
Sailing	30	0	30	Paralympic Track & Field	128	97	225
Shooting	40	34	74	Paralympic Triathlon	18	10	28
Skiing & Snowboarding	141	112	253	Paralympic Volleyball	41	8	49
Soccer	47	0	47	<b>TOTALS</b>	<b>8,913</b>	<b>3,843</b>	<b>12,756</b>
Softball	25	0	25				

\*OOO = Out-Of-Competition \*\*IC = In-Competition

**FINA Testing Collaboration**

Between January 1, 2016, and August 5, 2016, FINA and 15 NADOs conducted, on average, five to seven out-of-competition tests for each nation's top ten world-ranked male and female swimmers in every aquatic discipline held at the Olympic Games.

- USADA's program included 50 athletes at the start of the testing program
  - After trials, 38 athletes remained in the program and they all went to Rio
- **384** – Total number of in-competition and out-of-competition urine tests conducted on U.S. athletes through FINA collaboration
- **203** – Total number of in-competition and out-of-competition blood tests conducted on U.S. athletes through FINA collaboration

**Pre-Olympic Games Testing**

USADA conducted extensive testing for athletes headed to the Rio Olympics.

- **840** – Total Number of U.S. athletes who went to Rio
  - 554 Olympic athletes
  - 286 Paralympic athletes
- **313** – Number of blood tests conducted before Rio
- **2,382** – Number of urine tests conducted before Rio
- Out-of-Competition tests conducted
  - **272** OOC blood tests
  - **1,622** OOC urine tests
- In-competition tests conducted
  - **41** IC blood tests
  - **760** IC urine tests
- **2,368** test sessions were created for full list of Rio contenders
  - 1,034 athletes tested OOC (all Rio contenders)
  - 547 athletes tested IC (all Rio contenders)

**Foreign Athletes**

USADA collaborated with WADA to get the Whereabouts information necessary to test foreign athletes training in the U.S. who were Olympic potentials.

- **73** – Number of out-of-competition urine tests conducted
  - 43 samples were screened for EPO
  - 6 samples were targeted for carbon isotope-ratio mass spectrometry (GC/C/IRMS) analysis
- **17** – Number of out-of-competition blood tests conducted
  - 1 sample was screened for HGH isoform
  - 6 samples were screened for HGH biomarker

olympic  
athlete  
OUTREACH

To help athletes maintain accurate Whereabouts information, USADA enables them to sign up for daily or weekly reminders that include their current Whereabouts information so they know to update immediately if anything has changed.

**1,323** – Number of athletes who have signed up for daily reminder email

- USADA has sent more than **350,000** daily reminder emails

**1,180** – Number of athletes who have signed up for daily reminder text

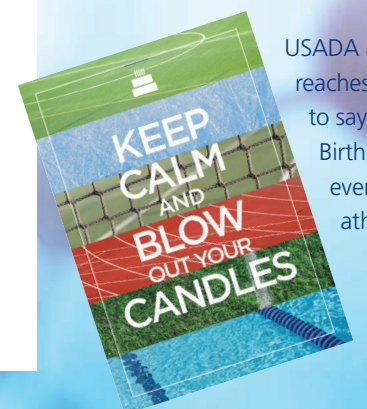
- USADA has sent more than **300,000** daily text messages

**1,558** – Number of athletes who have signed up for weekly reminder email

- USADA has sent more than **60,000** weekly reminder emails

**1,327** – Number of athletes who have signed up for weekly reminder text

- USADA has sent more than **50,000** weekly texts



USADA also reaches out to say Happy Birthday to every RTP athlete







# innovative technologies

## USADA testing

### innovative technologies

USADA is empowering more effective and efficient anti-doping efforts through technology.

## PROJECTS:

**Launched ASADA Global DRO:** The Australian Sports Anti-Doping Authority became the second licensee to Global DRO after the Japan Anti-Doping Agency became a licensee in 2013.

**Launched Swiss Global DRO:** Anti-Doping Switzerland launched Global DRO and became a full partner in the future of Global DRO along with CCES, UKAD, and USADA.



**Launched DFSNZ Athlete Express:** Drug Free Sport New Zealand became the first NADO outside of USADA to launch the Athlete Express Whereabouts and Athlete Portal system.



**Launched DFSNZ Chronos:** Drug Free Sport New Zealand joined the Chronos community using a dynamic, unified platform to conduct athlete biological passport analysis.



**Paperless Multi-Language Ability:** The USADA Paperless application now has the ability to switch between English, Spanish, and Portuguese and provide sample collection paperwork in English + Spanish or English + Portuguese.



### **Implemented Teamwork support system for DCOs:**

Teamwork is an online support system for our doping controls officers that allows them to:

- Order inventory
- Ask a procedural question
- Access FAQ knowledge base
- Log tickets for hardware/software issues





# results management

## USADA results management

USADA is charged with handling the results management and adjudication process for U.S. athletes in Olympic, Paralympic, Pan American and ParaPan American Sport. This independence removes the inherent conflict of interest associated with sport organizations trying to both promote and police their sports. USADA's process affords a full and fair legal process to athletes and sport personnel.



### USADA Adverse Findings & Other Doping Violations Initiated in 2016

Potential Doping Violations	137
Number of Cases Referred to International Federations	3
Number of Cases Initiated in 2016 Resulting in a Sanction	35
Number of Cases Resulting in No Violation*	66
Number of Cases Pending at End of 2016	33

*\*Cases resulting in no violation could be attributed to cases resolved by TUEs; the application of the non-national policy; instances where an athlete was able to establish that the substance was used in a permitted route/way; or other valid reasons under the rules. In addition, all decisions are subject to appeal by the athlete's sport International Federation or the World-Anti-Doping Agency.*

**50%**

increase in sanctions from 2015 to 2016

**USADA is getting more tips, launching more investigations, and conducting more target testing than ever before.**

### Potential Violations Breakdown by Substance Category

SUBSTANCE	# OF POTENTIAL ADRVS
Anabolic Agents	24
Beta-2 Agonists	1
Cannabinoids	2
Diuretics and Other Masking Agents	15
Glucocorticosteroids	12
Hormone and Metabolic Modulators	15
Narcotics	2
Non-Analytical	27
Peptide Hormones, Growth Factors and Related Substances	1
Stimulants	38



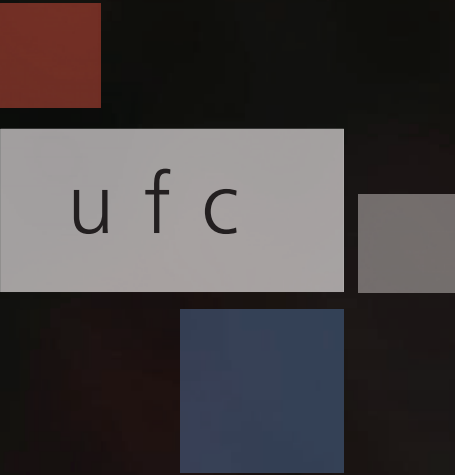
**usada sanctions announced in 2016**

*Sanctions listed in order by date, from least recent to most recent.*

Name	Sport	Substance(s) / Reason	Sanction Terms
Blake Leeper	Paralympic Track & Field	Benzoyllecgonine	1-Year Suspension - Loss of Results
Robert Lea	Cycling	Noroxycodone	6-Month Suspension - Loss of Results
Wayne Lo	Paralympic Table Tennis	Hydrochlorothiazide and Chlorothiazide	Public Warning - Loss of Results
Michael Buckley	Cycling	Exogenous Anabolic Androgenic Steroid / Adverse CIR, Anastrozole, LGD-4033 and Ostarine	4-Year Suspension - Loss of Results
Hyun Cho	Weightlifting	Dimethylbutylamine (DMBA)	6-Months Suspension - Loss of Results
Ashley Paulson	Triathlon	Ostarine	6-Months Suspension - Loss of Results
Landon DeCastroverde	Weightlifting	Non-Analytical Postive: Refusing Sample Collection	4-Year Suspension - Loss of Results
Yamile Lugo	Cycling	Exogenous Anabolic Androgenic Steroid / Adverse CIR	2-Year Suspension - Loss of Results
Daniel Lehr	Weightlifting	1-androstenedione and its Metabolite, and Ostarine and its Metabolite	3-Year 9-Month Suspension - Loss of results
Breno Correina Abrantes Faria	Brazilian Jiu-Jitsu	Non-Analytical Positive	4-Year Suspension - Loss of Results
Gwen Berry	Track & Field	Non-Analytical Positive: Vilanterol	3-Month Suspension - Loss of Results
Nia Williams	Rugby	Drostanolone and its Metabolite, 19-noretiocholanolone and 19-Norandrosterone	4-Year Suspension - Loss of Results
Sam Tierney	Swimming	Non-Analytical Positive: Vilanterol	Public Warning
Nick Brandt-Sorenson	Cycling	Non-Analytical Positive: Possession and Trafficking	Lifetime Ban - Los of Results
James Howe II	Taekwondo	Carboxy-THC	3-Month Suspension - Loss of Results
Kristen Shaldybin	Gymnastics	3-chloroaniline-4,6-disulfonamide Hydrochlorothiazide	No Fault or Negligence Public Announcement - No Loss of Results
Max Holt	Volleyball	Meldonium	No Fault or Negligence Public Announcement - No Loss of Results
Susan Dutta	Equestrian	Methylprednisolone	Public Warning - Loss of Results
Greg Pizza	Track & Field	Exogenous Anabolic Androgenic Steroid / Adverse CIR	20-Month Suspension - Loss of Results
Nataliya Lehonkova	Track & Field	Meldonium	No Fault or Negligence Public Announcement - No Loss of Results
Grigory Tarasevich	Swimming	Meldonium	No Fault or Negligence Public Announcement - Loss of Results
Gino Bough	Karate	Non-Analytical Positive: 3 Whereabouts Failures	1-Year Suspension - Loss of Results
Nikita Lobintsev	Swimming	Meldonium	No Fault or Negligence Public Announcement - No Loss of Results
Liz Palmer	Track & Field	17β-hydroxymethyl-17α-methyl-18-norandrost-1,4,13-trien-3-one	3-Year 6-Month Suspension - Loss of Results

Name	Sport	Substance(s) / Reason	Sanction Terms
Robert Anderson	Paralympic Judo	Non-Analytical Positive: Vilanterol	3-Month Suspension - Loss of Results
Thomas Cawley	Track & Field	Non-Analytical Positive: Peptides	4-Year Suspension - Loss of Results
Crystal Riggs	Weightlifting	Furosemide	6-Months Suspension - Loss of Results
Mary Verrando-Higgins	Cycling	Metabolites of Methyltestosterone	1-Year Suspension - Loss of Results
Gebo Burka Gameda	Track & Field	Prednisone	18-Month Suspension - Loss of Results
Kimberly Ciolli	Cycling	Exogenous Anabolic Androgenic Steroid / Adverse CIR and Propylhexadrine	2-Year Suspension - Loss of Results
Robert Baatz	Cycling	Exogenous Anabolic Androgenic Steroid / Adverse CIR	2-Year Suspension - Loss of Results
Jessica Denney Phillips	Weightlifting	Non-Analytical Positive: Intravenous Infusion (IV)	14-Months Suspension - Loss of Results
Ivan Tutukin	Triathlon	Meldonium	No Fault or Negligence Public Announcement - Loss of Results
Ana Milena Fagua Raquira	Cycling	Exogenous Anabolic Androgenic Steroid / Adverse CIR	4-Year Suspension - Loss of Results
Rizelyx Rivera	Weightlifting	Oxycodone	1-Year Suspension - Loss of Results
Jeff Schwab	Cycling	Exogenous Anabolic Androgenic Steroid / Adverse CIR	2-Year Suspension - Loss of Results
Trell Kimmons	Track & Field	1,3-Dimethylbutylamine (DMBA)	2-Year Suspension - Loss of Results
Shawn D'Aurelio	Cycling	Non-Analytical Postive: Refusing Sample Collection	4-Year Suspension - Loss of Results
Oscar Tovar	Cycling	Violating Period of Ineligibility	Disqualification of Results
Tom Danielson	Cycling	Exogenous Anabolic Androgenic Steroid / Adverse CIR	4-Year Suspension - Loss of Results
Camilo Ulloa	Cycling	Exogenous Anabolic Androgenic Steroid / Adverse CIR, and Methylphenidate and its metabolite	4-Year Suspension - Loss of Results
Tim Root	Cycling	Non-Analytical Postive: Evading Sample Collection	4-Year Suspension - Loss of Results
Cody Bidlow	Track & Field	Non-Analytical Positive: Peptides	4-Year Suspension - Loss of Results
Michael Dunkum	Wrestling	Non-Analytical Positive: Peptides	4-Year Suspension - Loss of Results
Ryan Pinney	Paralympic Cycling	Exogenous Anabolic Androgenic Steroid / Adverse CIR	18-Month Suspension - Loss of Results
Nicole Moore	Weightlifting	1,3-Dimethylbutylamine (DMBA)	6-Months Suspension - Loss of Results
Brandon Reyes	Weightlifting	1,3-Dimethylbutylamine (DMBA)	6-Months Suspension - Loss of Results
Thomas Luton	Cycling	Non-analytical Positive: Erythropoietin (EPO), Growth Hormone (GH) and Testosterone	4-Year Suspension - Loss of Results
Nicholas Mossberg	Track & Field	Non-Analytical Positive: Peptides	4-Year Suspension - Loss of Results
Ryan Hudson	Weightlifting	Stanozolol Metabolites	4-Year Suspension - Loss of Results
Joseph Mazzie	Roller Sports	Ibutamoren and RAD140	4-Year Suspension - Loss of Results
Joseph Lamour	Team Handball	Amphetamine	2-Year Suspension - Loss of Results







In 2015, the UFC became the first professional sport in the U.S. to have an independently administered anti-doping program. USADA is responsible for education initiatives, in and out-of-competition testing, and results management procedures for this **global anti-doping program**.



## Education Summary

### 2016 UFC ATHLETE'S ADVANTAGE

Athletes in the UFC Registered Testing Pool (RTP) are required to take Athlete's Advantage at least once a year. This video tutorial is designed to equip athletes with all the information they need to be successful in the UFC Anti-Doping Program.

- **673** – Total number of athletes that completed the UFC Athlete's Advantage tutorial

### PHONE EDUCATION SESSIONS

Since February of 2016, every athlete new to the UFC testing pool has received anti-doping education over the phone. This gives athletes the opportunity to not only learn and review material, but to also ask any questions they may have. During the phone education session, athletes learn about: Whereabouts requirements, how to check the status of their medications, how to file TUEs, why and how to research supplements, and the IV ban.

Each athlete has the opportunity to have the phone call in their native language. So far, the phone education calls have been done in 14 different languages, including French, Korean, Portuguese, Russian, Spanish, and Tagalog.

- **98** – Total number of education phone calls



Ryan Carpenter, UFC Operations Manager (L) and Alex Rascon, UFC Operations Program Lead

### PUBLICATIONS AND RESOURCES

USADA provided publications and educational materials to athletes and support personnel that covered the anti-doping program, resources, and athletes' responsibilities. The materials were available in a variety of languages, including English, Spanish, French, Japanese, Russian, and Portuguese.



# July 1, 2016

MARKED THE 1-YEAR ANNIVERSARY OF THE PROGRAM

### UFC ATHLETE OUTREACH

To help athletes maintain accurate Whereabouts information, USADA enables them to sign up for daily or weekly reminders that notify them of what information they have on file so they know to update the information if anything has changed.

- **349** – Number of athletes who have signed up for daily reminder email
- **285** – Number of athletes who have signed up for daily reminder text
- **388** – Number of athletes who have signed up for weekly reminder email
- **302** – Number of athletes who have signed up for weekly reminder text

### BRAZIL DCO PROGRAM

USADA staff visited Brazil three times in 2016 to provide training to DCOs and work alongside them at UFC events.



UFC Operations Manager, Ryan Carpenter (center), and USADA DCO Regional Team Lead, Arnold Thomas (left center), join DCOs from the Brazil DCO program at a UFC Event in Brazil.

## KEY EVENTS:

**UFC Media Summit** Provided education on the UFC Anti-Doping Policy to approximately 15 UFC media members in order to provide clarity on key Policy components and establish relationships with these stakeholders.

**UFC Commission Summit** USADA met with several state athletic commission representatives to discuss ways to collaborate on anti-doping efforts to maximize the use of resources and reduce the procedural burden on athletes.

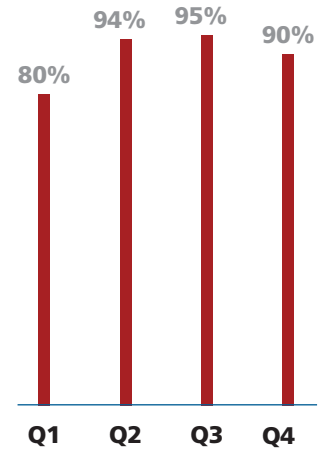
**ABC Commission Meeting** USADA attended and presented at the Association of Boxing Commissions (ABC) Meeting to build on previous conversations about collaborating on anti-doping efforts.



## ufc by the numbers

- **32** – Approximate number of nationalities tested out-of-competition
- **41** – Total number of events tested
- **10** – Number of countries where in-competition testing took place
  - U.S., Northern Ireland, Brazil, Australia, Germany, England, Mexico, Canada, Netherlands, Croatia
- **16** – Total number of U.S. cities visited for in-competition testing
- **90%** – Average Compliance with Whereabouts Requirements

### 2016 WHEREABOUTS COMPLIANCE PERCENTAGES



### 2016 UFC TESTING NUMBERS – 2,289 TOTAL TESTS IN 2016

#### Q1 Testing Statistics

		Total Tests			Total Tests
UFC	In-Competition	63	UFC	In-Competition	64
UFC	Out of Competition	387	UFC	Out of Competition	471
UFC	<b>Total</b>	<b>450</b>	UFC	<b>Total</b>	<b>535</b>

#### Q2 Testing Statistics

#### Q3 Testing Statistics

		Total Tests			Total Tests
UFC	In-Competition	99	UFC	In-Competition	92
UFC	Out of Competition	584	UFC	Out of Competition	529
UFC	<b>Total</b>	<b>683</b>	UFC	<b>Total</b>	<b>621</b>

#### Q4 Testing Statistics

### 2016 % TOTAL TESTS BY NATIONALITY (TOP 5)



### 2016 % RTP BY NATIONALITY (TOP 5)



USADA's Drug Reference Team also helps UFC athletes and medical personnel navigate the TUE process.

#### 2016 UFC TUE Application Outcomes

	UFC Program
Granted	5
Denied	5
<b>Total</b>	<b>10</b>

### TUES GRANTED BY PROHIBITED LIST CATEGORY

2016 WADA Prohibited List Category	TUEs Granted
S1 - Anabolic Agents	
S2 - Peptide Hormones, Growth Factors, Related Substances, and Mimetics	
S3 - Beta 2 Agonists	
S4 - Hormone & Metabolic Modulators	
S5 - Diuretics and other Masking Agents	
S6 - Stimulants	1
S7 - Narcotics	
S8 - Cannabinoids	
S9 - Glucocorticoids	3
M1 & M2 - Prohibited Methods	1
P2 - Beta Blockers	
<b>Totals</b>	<b>5</b>

## ufc results management

As part of its mission to ensure that athletes have the opportunity to compete in a clean Octagon, USADA maintains a robust results management and adjudication program, while affording a full and fair legal process to athletes and support personnel.

### UFC ADVERSE FINDINGS & OTHER DOPING VIOLATIONS INITIATED IN 2016

Potential Doping Violations	34
Number of Cases Initiated in 2016 Resulting in a Sanction	16
Number of Cases Resulting in No Violation	2
Number of Cases Pending at End of 2016	16





**UFC Potential Violations Breakdown by Substance Category**

SUBSTANCE	# OF POTENTIAL ADPVS
Anabolic Agents	20
Cannabinoids	2
Diuretics and Other Masking Agents	1
Hormone and Metabolic Modulators	6
Non-Analytical	3
Peptide Hormones, Growth Factors and Related Substances	1
Stimulants	1
<b>Grand Total</b>	<b>34</b>

**ufc sanctions announced in 2016**

*Sanctions listed in order by date, from least recent to most recent.*

Name	Substance(s) / Reason	Sanction Terms
Gleison Tibau	Erythropoietin (EPO)	2-Year Suspension
Yoel Romero	Ibutamoren	6-Month Suspension
Diego Brandao	Carboxy-THC	9-Month Suspension
Tim Means	Ostarine	6-Month Suspension
Jay Dee ("BJ") Penn	Non-Analytical Positive: Intravenous Infusion (IV)	6-Month Suspension
Chad Mendes	GHRP-6	2-Year Suspension
Islam Makhachev	Meldonium	No Fault or Negligence Public Reprimand
Ricardo Abreu	Exogenous Anabolic Androgenic Steroid / Adverse CIR, 19-Norandrosterone and 19-noretiocholanolone	2-Year Suspension
Ning Guangyou	Clenbuterol	No Fault or Negligence Public Reprimand
Augusto Montano	Clenbuterol	No Fault or Negligence Public Reprimand
Li Jingliang	Clenbuterol	No Fault or Negligence Public Reprimand
Nate Diaz	Cannabidiol	Public Warning
Abdul-Kerim Edilov	Meldonium	15-Month Suspension
Adam Hunter	Boldenone metabolite, Clenbuterol, Drostanolone Metabolite, Methandienone metabolites and Tamoxifen	2-Year Suspension
Jon Jones	Hydroxycloimiphene and Letrozole Metabolite	1-Year Suspension
George Sullivan	Non-Analytical Positive: IGF-1	1-Year Suspension
Lyoto Machida	7-keto-dehydroepiandrosterone (7-keto-DHEA)	18-Month Suspension
Carlos Diego Ferreira	Ostarine and Non-Analytical Positive: -keto-dehydroepiandrosterone (7-keto-DHEA)	17-Month Suspension

auditor's  
report





Board of Directors

United States Anti-Doping Agency

Colorado Springs, Colorado

## report on the financial statements

We have audited the accompanying financial statements of United States Anti-Doping Agency (the Agency), which comprise the statements of financial position as of December 31, 2016 and 2015, and the related statements of activities and cash flows for the years then ended, and the related notes to the financial statements.

### MANAGEMENT'S RESPONSIBILITY FOR THE FINANCIAL STATEMENTS

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation and maintenance of internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### AUDITOR'S RESPONSIBILITY

Our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

### OPINION

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Agency as of December 31, 2016 and 2015, and the changes in its net assets and its cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

### SUPPLEMENTARY INFORMATION

Our 2016 audit was conducted for the purpose of forming an opinion on the 2016 financial statements as a whole. The accompanying supplementary information including the Agency's budget report and the schedule of expenditures of federal awards required by Title 2 U.S. *Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, as listed in the table of contents, is presented for purposes of additional analysis and is not a required part of the financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the 2016 financial statements. The information has been subjected to the auditing procedures applied in the audit of the 2016 financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the 2016 financial statements as a whole.

### OTHER REPORTING REQUIRED BY GOVERNMENT AUDITING STANDARDS

In accordance with *Government Auditing Standards*, we have also issued our report dated March 24, 2017, on our consideration of the Agency's internal controls over financial reporting and our tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal controls over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal controls over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the Agency's internal controls over financial reporting and compliance.

**BKD, LLP**

Colorado Springs, Colorado

March 24, 2017



## statements of financial position

Years ended December 31, 2016 and 2015

<b>ASSETS</b>	<b>2016</b>	<b>2015</b>
<b>Current Assets</b>		
Cash and cash equivalents	\$ 3,561,987	\$ 4,526,341
Investments	1,537,516	1,447,155
Accounts receivable, net of allowance; 2016—\$20,593 and 2015—\$54,852	2,139,883	1,355,598
Supplies	152,289	93,701
Prepaid expenses and other	312,411	357,187
Total current assets	<u>7,704,086</u>	<u>7,779,982</u>
<b>Property and Equipment—Net Accumulated Depreciation and Amortization; 2016—\$928,118 and 2015—\$1,575,909</b>		
	84,618	114,122
Total assets	<u>\$ 7,788,704</u>	<u>\$ 7,894,104</u>
<b>LIABILITIES AND NET ASSETS</b>		
<b>Current Liabilities</b>		
Accounts payable and other accrued liabilities	\$ 1,485,376	\$ 1,341,771
Deferred revenue	92,581	140,250
Total current liabilities	<u>1,577,957</u>	<u>1,482,021</u>
<b>Unrestricted Net Assets</b>		
Undesignated	5,156,537	5,362,083
Board-designated	1,054,210	1,050,000
Total unrestricted net assets	<u>6,210,747</u>	<u>6,412,083</u>
Total liabilities and net assets	<u>\$ 7,778,704</u>	<u>\$ 7,894,104</u>

## statements of activities

Years ended December 31, 2016 and 2015

<b>Revenues, grants and other support</b>	<b>2016</b>	<b>2015</b>
ONDCP federal grant	\$ 9,500,000	\$ 9,000,000
United States Olympic Committee (USOC) contractual agreement	3,782,250	3,702,250
Revenue from testing and other services	6,300,152	4,323,114
Investment return (loss)	90,680	(86,967)
Total revenues, grants and other support	<u>19,673,082</u>	<u>16,938,397</u>
<b>Expenses</b>		
Program expenses		
Testing services	11,491,952	9,127,780
Results management	2,015,653	1,801,964
Science, research and development and drug reference	2,574,925	2,227,160
Education and awareness	2,940,444	2,521,802
General and administrative	851,444	752,093
Total expenses	<u>19,874,418</u>	<u>16,430,799</u>
<b>Change in Net Assets</b>	<b>(201,336)</b>	<b>507,598</b>
<b>Net Assets, Beginning of Year</b>	<b>6,412,083</b>	<b>5,904,485</b>
<b>Net Assets, End of Year</b>	<b>\$ 6,210,747</b>	<b>\$ 6,412,083</b>



Years ended December 31, 2016 and 2015

	2016	2015
<b>Operating Activities</b>		
Change in net assets	\$ (201,336)	\$ 507,598
Items not requiring (providing) cash		
Depreciation and amortization	50,904	38,639
Net realized and unrealized losses and (gains)	(66,865)	116,053
Bad debt expense	-	65,283
Changes in		
Accounts receivable	(784,285)	(675,034)
Supplies	(58,588)	(9,864)
Prepaid expenses and other	44,776	(45,984)
Accounts payable and other accrued liabilities	143,605	206,434
Deferred revenue	(47,669)	96,867
Net cash provided by (used in) operating activities	<u>(919,458)</u>	<u>299,992</u>
<b>Investing Activities</b>		
Purchases of equipment	(21,400)	(101,339)
Net purchases of investments	<u>(23,496)</u>	<u>(28,401)</u>
Net cash used in investing activities	<u>(44,896)</u>	<u>(129,740)</u>
<b>Increase (Decrease) in Cash and Cash Equivalents</b>	<b>(964,354)</b>	<b>170,252</b>
<b>Cash and Cash Equivalents, Beginning of Year</b>	<b><u>4,526,341</u></b>	<b><u>4,356,089</u></b>
<b>Cash and Cash Equivalents, End of Year</b>	<b><u>\$ 3,561,987</u></b>	<b><u>\$ 4,526,341</u></b>

Years ended December 31, 2016 and 2015

**NOTE 1: Nature of Operations and Summary of Significant Accounting Policies**

**Nature of Operations**

United States Anti-Doping Agency (the Agency) began operations October 1, 2000. The Agency is responsible for testing, education, research and adjudication for U.S. Olympic, Pan American Games, Paralympic athletes and the Ultimate Fighting Championship. The Agency is also responsible for enhancing research efforts and promoting educational programs to inform athletes of the rules governing the use of performance enhancing substances, the ethics of doping and its harmful health effects.

**Use of Estimates**

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenues, expenses, gains, losses and other changes in net assets during the reporting period. Actual results could differ from those estimates.

**Cash Equivalents**

The Agency considers all liquid investments with original maturities of three months or less to be cash equivalents. As of December 31, 2016 and 2015, cash equivalents consisted primarily of money market accounts with brokers.

At December 31, 2016, the Agency's cash accounts exceeded federally insured limits by approximately \$3,684,000.

**Investments and Investment Return**

Investments in equity securities having a readily determinable fair value and all debt securities are carried at fair value. Other investments are valued at the lower of cost (or fair value at time of donation, if acquired by contribution) or fair value. Investment return includes dividend, interest and other investment income; realized and unrealized gains and losses on investments carried at fair value; and realized gains and losses on other investments.

**Accounts Receivable**

Accounts receivable are stated at the amount billed to customers. The Agency provides an allowance for doubtful accounts, which is based upon a review of outstanding receivables, historical collection information and existing economic conditions. Accounts receivable are ordinarily due 30 days after the issuance of the invoice. Delinquent receivables are written-off based on individual credit evaluation and specific circumstances of the customer.

**Supplies**

Supplies consist of drug testing kits and other doping control supplies and are valued at the lower of cost (first-in, first-out method) or market.

**Property and Equipment**

Property and equipment are recorded at cost, less accumulated depreciation. Depreciation and amortization are calculated using the straight-line method over the following estimated useful lives:

Computer equipment and software	3 - 5 years
Furniture, fixtures and office equipment	5 - 7 years
Website development	3 years
Lab equipment	5 years

Leasehold improvements are amortized over the term of the leases or the estimated lives of the improvements, whichever is shorter.

**Deferred Revenue**

Deferred revenue includes revenues received, which have not yet been used for their specified purpose or period.

**Federal Grants**

Support funded by grants is recognized as the Agency performs the contracted services or incurs outlays eligible for reimbursement under the grant agreements. Grant activities and outlays are subject to audit and acceptance by the granting agency and, as a result of such audit, adjustments could be required.

**Income from Third Parties**

The Agency performs various doping tests for third parties. Fees are billed and payable after services are rendered. Revenue is recognized when the services are performed.

**Functional Allocation of Expenses**

The costs of supporting the various programs and other activities have been summarized on a functional basis in the statements of activities. Certain costs have been allocated among the program and general and administrative categories based on management's estimates.

**Income Taxes**

The Agency is exempt from income taxes under Section 501(c)(3) of the Internal Revenue Code and a similar provision of state law. However, the Agency is subject to federal income tax on any unrelated business taxable income.

**Subsequent Events**

Subsequent events have been evaluated through the date of the Independent Auditor's Report, which is the date the financial statements were available to be issued.



## notes to financial statements

Years ended December 31, 2016 and 2015

**NOTE 2: Investments****Nature of Operations**

Investments at December 31 consist of:

	2016	2015
Cash held by broker	\$ 8,931	\$ 14,604
Equity mutual funds		
Large-cap equities	386,755	344,633
International equities	279,171	257,208
Small- and mid-cap equities	89,286	70,158
Multi-strategy	239,001	228,686
Other mutual funds		
Fixed-income bonds	442,209	444,769
Real estate	92,163	87,097
	<u>\$1,537,516</u>	<u>\$1,447,155</u>

Total investment return (including interest income on cash and cash equivalents) is comprised of the following:

	2016	2015
Interest and dividend income	\$ 23,815	\$ 29,086
Net realized and unrealized gains and (losses) on investments reported at fair value	66,865	(116,053)
	<u>\$ 90,680</u>	<u>\$ (86,967)</u>

**NOTE 3: Disclosures About Fair Value of Assets and Liabilities****Nature of Operations**

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Fair value measurements must maximize the use of observable inputs and minimize the use of unobservable inputs. There is a hierarchy of three levels of inputs that may be used to measure fair value:

- Level 1** Quoted prices in active markets for identical assets or liabilities
- Level 2** Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities in active markets; quoted prices in

markets that are not active; or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities

- Level 3** Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the assets or liabilities

**Recurring Measurements**

The following tables present the fair value measurements of assets recognized in the accompanying statements of financial position measured at fair value on a recurring basis and the level within the Topic 820 fair value hierarchy in which the fair value measurements fall at December 31, 2016 and 2015:

**2016****Fair Value Measurements Using**

	Fair Value	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Equity mutual funds				
Large-cap	\$ 386,755	\$ 386,755	\$ -	\$ -
International	279,171	279,171	-	-
Small- and mid-cap	89,286	89,286	-	-
Multi-strategy	239,001	239,001	-	-
Other mutual funds				
Fixed income bonds	442,209	442,209	-	-
Real estate	92,163	92,163	-	-
	1,528,585			
Cash	8,931			
	<u>\$ 1,537,516</u>			

## notes to financial statements

Years ended December 31, 2016 and 2015

**2015****Fair Value Measurements Using**

	Fair Value	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Equity mutual funds				
Large-cap	\$ 344,633	\$ 344,633	\$ -	\$ -
International	257,208	257,208	-	-
Small- and mid-cap	70,158	70,158	-	-
Multi-strategy	228,686	228,686	-	-
Other mutual funds				
Fixed income bonds	444,767	444,767	-	-
Real estate	87,097	87,097	-	-
	1,432,551			
Cash	14,604			
	<u>\$ 1,447,155</u>			

Following is a description of the valuation methodologies and inputs used for assets and liabilities measured at fair value on a recurring basis and recognized in the accompanying statements of financial position, as well as the general classification of such assets and liabilities pursuant to the valuation hierarchy. There have been no significant changes in the valuation techniques during the years ended December 31, 2016 and 2015.

**Investments**

Where quoted market prices are available in an active market, securities are classified within Level 1 of the valuation

hierarchy. Level 1 securities include large-cap, small- and mid-cap, multi-strategy and international equity mutual funds; and real estate, commodity and fixed income bond mutual funds. If quoted market prices are not available, then fair values are estimated by using pricing models, quoted prices of securities with similar characteristics or discounted cash flows. These are considered Level 2 securities. In certain cases where Level 1 or Level 2 inputs are not available, securities are classified within Level 3 of the hierarchy. Currently, the Agency does not have Level 2 or Level 3 securities.

**NOTE 4: Property and Equipment**

Property and equipment at December 31 consists of:

	2016	2015
Computer equipment and software	\$ 525,754	\$ 504,354
Furniture, fixtures and office equipment	81,384	81,384
Leasehold improvements	43,073	43,073
Website development	245,926	245,926
Lab equipment	116,599	815,294
	1,012,736	1,690,031
Less accumulated depreciation and amortization	(928,118)	(1,575,909)
Total property and equipment, net	<u>\$ 84,618</u>	<u>\$ 114,122</u>



Years ended December 31, 2016 and 2015

**NOTE 5: Board-designated Net Assets – Unrestricted**

The Board has designated net assets for the following purposes:

	2016	2015
Research	\$ 454,210	\$ 450,000
Contingencies	600,000	600,000
	<u>\$ 1,054,210</u>	<u>\$1,050,000</u>

**NOTE 6: USOC Contract**

The Agency has an agreement with the United States Olympic Committee (USOC) through December 31, 2016, to conduct a drug testing and anti-doping program for athletes in the Olympic, Paralympic and Pan American Games. Support funded by the USOC is recognized as the Agency performs the contracted services. Revenue received from the USOC for the years ended December 31, 2016 and 2015 was \$3,782,250 and \$3,702,250, respectively, of which \$358,775 and \$313,401 was included in accounts receivable at December 31, 2016 and 2015, respectively. To mitigate the perceived conflict of interest between the Agency and the American Arbitration Association (AAA) or the Court of Arbitration for Sport (CAS), the USOC agrees to directly pay all arbitration expenses incurred by these entities up to \$500,000. During 2016 and 2015, the USOC directly paid arbitration costs to these entities of \$141,225 and \$186,599, respectively, which is included in the contract amount above. If the arbitration expenses incurred are less than \$500,000, then the excess up to \$500,000 is remitted to the Agency. Subsequent to year-end, the contract was renewed through December 31, 2022.

**NOTE 7: Operating Leases**

Noncancellable operating leases for office space and office equipment expire in various years through 2019.

Future minimum lease payments at December 31, 2016 were:

2017	\$ 428,520
2018	20,033
2019	3,339
	<u>\$ 451,892</u>

Rental expense for all operating leases consisted of \$463,716 and \$451,662 for the years ended December 31, 2016 and 2015, respectively.

**NOTE 8: Employee Benefit Plan**

The Agency maintains a 401(k) benefit plan covering all employees who meet the eligibility requirements. The Agency makes contributions at its discretion. The Agency's contributions to the plan were \$303,691 and \$268,831 for the years ended December 31, 2016 and 2015, respectively.

**NOTE 9: Significant Commitments, Estimates and Concentrations**

Accounting principles generally accepted in the United States of America require disclosure of certain significant estimates and current vulnerabilities due to certain concentrations. Those matters include the following:

**Revenue Concentration**

The Agency received 83% of its support during 2016 from three organizations and 75% of its support in 2015 from two organizations. As discussed in Note 6, the Agency has a contract with the USOC (one of the three major organizations) through 2022.

**Equipment Grant**

Effective September 9, 2008, the Agency, as grantor, entered into a grant agreement with Sports Medicine Research and Testing Laboratory (the Laboratory). Under the terms of this grant agreement, the Agency will grant a piece of equipment with a cost of \$71,750 and now fully depreciated, to the Laboratory. The Laboratory must use the equipment only for purposes that fit within the Agency's mission and must report the detail of testing performed with the equipment to the Agency each year. The Agency would have the right to take back the equipment if either of these requirements was not met. As such, management considers the equipment property of the Agency.

*Supplementary information is available upon request.*



U . S . A N T I - D O P I N G A G E N C Y



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