



ANNUAL REPORT 2013

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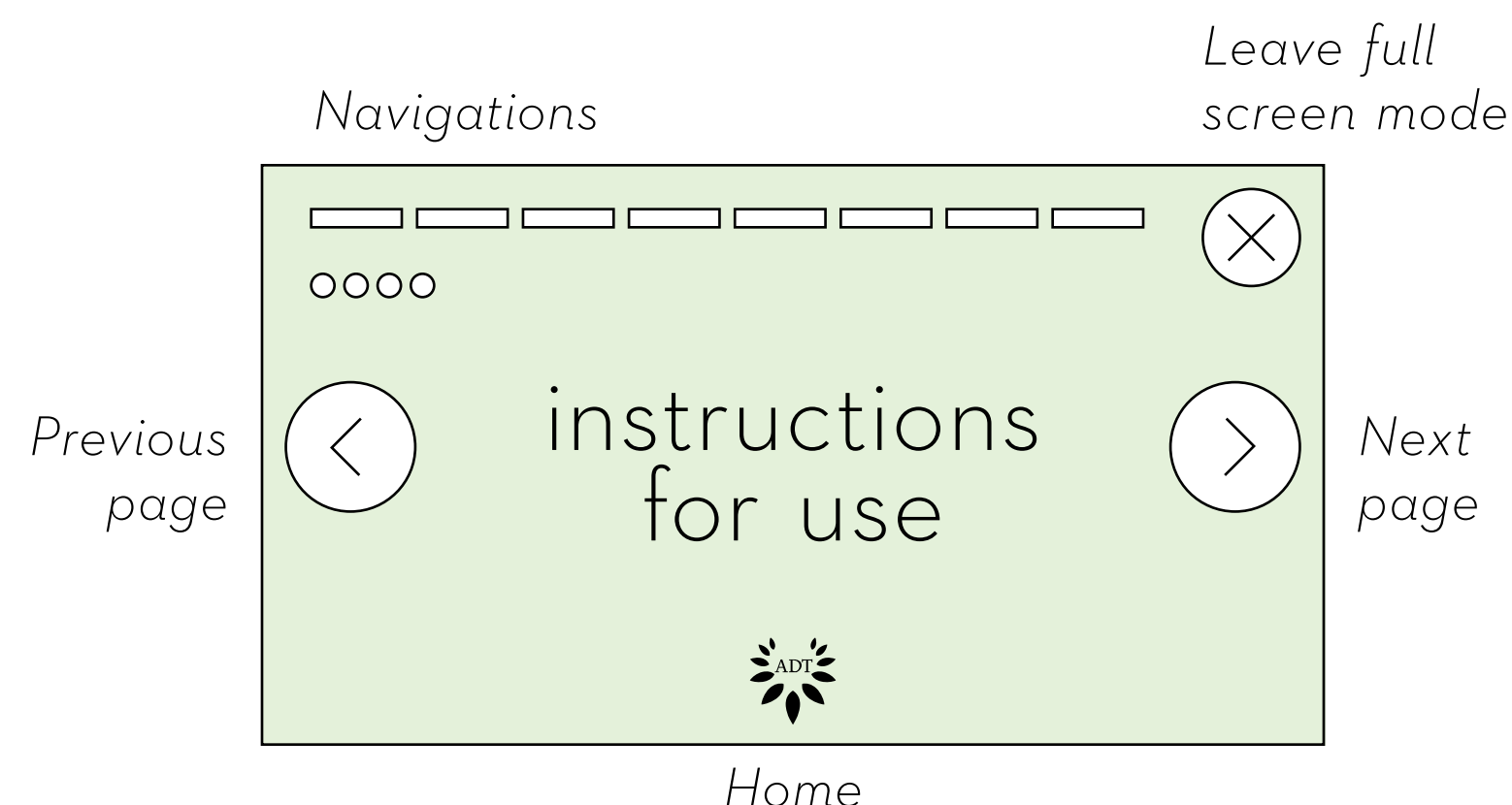
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INTRODUCTION



The preparation and approval of the World Anti-Doping Code 2015 played a key role in FINADA's operations in 2013. The new Code will enter into force on 1 January 2015. This obligates FINADA to prepare the new Finnish antidoping code during 2014.

The Sochi Olympics resulted a lot of unanticipated duties for FINADA's doping control operations in 2013. FINADA handled a large number of international testing requests due to the Olympics. The operations of the joint Nordic unit for the analysis of athletes' blood and steroid profiles began successfully.

In the area of legal matters, the case of Juha Lallukka gave rise to many new challenges regarding the processing of the results of doping cases. The case has been pending since 2011. The Supervisory Board and the Finnish Sports Arbitration Board issued decisions on the case in 2013. Lallukka's ban was lifted as a result of the decisions. The resolution of the Finnish Sports Arbitration Board was based on

a 3-2 vote. The case may be brought to the International Court of Arbitration for Sport (CAS) at WADA's initiative.

The launch of FINADA's new website was a significant step forward in the field of communications. The website is an important tool for communicating information to stakeholders. Special focus was put on making the new website more interactive than before.

In the area of education and communications, FINADA partnered with the Anti-Doping Authority of the Netherlands to organise a seminar aimed at developing an international network. The initiative was enthusiastically received and will be continued in the future.



INTRODUCTION

FINADA
in figures
in 2013



Tests became more versatile

Doping control in 2013

- 3,294 doping tests (2012: 3,634)
- 2,877 (2012: 3,006) doping tests under FINADA's national testing programme; of these, 1,424 (2012: 1,436) were in-competition and 1,453 (2012: 1,570) were out-of-competition tests
- in addition, 417 in-competition and out-of-competition tests carried out at the request of national and international federations or WADA

Spreading the message of clean sport

- 106 lectures with a total of 3,442 attendees
- Clean Win information stands at 18 sporting events with total spectator numbers in the tens of thousands
- more than 30 newsletters and press releases
- 9 blog entries



ADMINISTRATION



Administration

FINADA's Board convened eight times during the year under review. The Chair of the Board was Pekka Ilmivalta, Senior Vice President, Communications and CSR at Veikkaus, and the Vice-Chair was Tuula Lybeck, Director of the Ministry of Education and Culture. The composition of the Board is presented in [Appendix 1](#). The Board and FINADA's office staff held a joint planning meeting on 3-4 June 2013 in Hämeenlinna. The focus of the meeting was on drafting guidelines for the agency's operations and finances in 2014 as well as on discussing the reform of the Finnish Sports Act and the World Anti-Doping Code, topical international issues and the development of FINADA's organisation in future. Medical Director at FINADA Timo Seppälä delivered a presentation to the Board on the Juha Lallukka case.

The focus of the Board's activities was on monitoring finances and operations, particularly with regard to doping control. Doping control is a substantial part of FINADA's operations both from a quantitative and economic perspective. In addition, the Board established guidelines for operations and finances in the coming years. The Board followed the reform of the World Anti-Doping Code actively and commented on both European and national statements throughout the year. The communication function monitored the revision of the FINADA website, and the education function monitored the implementation of an international initiative to create a network in the area of education and communication.

FINADA's Board submitted a proposal to the Finnish Ministry of Education and Culture in 2013 to establish a new organisation that would handle broader ethical issues in sports. FINADA has also suggested the option of having this organisation operate in connection with FINADA. Minister of Culture and Sport Paavo Arhinmäki received the proposal and assigned Minister Lauri Tarasti to produce a report on the matter by the end of January 2014.

FINADA also cooperated with a private company, the Fazer Group, under a collaboration agreement within the framework of the Clean Win programme.



ADMINISTRATION

Supervisory Board

Under Finnish antidoping codes and practices and FINADA's rules, the Supervisory Board's tasks are:

- to determine whether a case constitutes a doping violation
- to issue a written statement on the consequences that should follow if the Supervisory Board finds that a case is a doping violation
- to resolve complaints made in response to decisions on therapeutic use exemptions and other administrative decisions; and
- to resolve other disputes arising from the interpretation and application of the antidoping codes and practices.

The Chair of the Supervisory Board in 2013 was Esa Schön, Licentiate of Laws, and the Secretary was Katja Tukiainen, Master of Laws. The members of the Supervisory Board are listed in [Appendix 1](#).

The Supervisory Board convened seven times during the year.

In 2013, the Supervisory Board processed 11 antidoping rule violations. The violations occurred in 2011 and 2013.

Therapeutic Use Exemption Committee (TUEC)

FINADA's Therapeutic Use Exemption Committee convened eight times in 2013. In addition, the Committee held six remote meetings by e-mail. The Chair of the Committee was Doctor Matti Lehesjoki. The Therapeutic Use Exemption Committee acquired one new member, Päivi Miettinen M.D., in March 2013. The composition of the Committee remained otherwise unchanged ([Appendix 1](#)). For more information on therapeutic use exemptions, please refer to the section "Therapeutic use exemptions".

Quality management

Maintaining high quality throughout the entire doping control process is of key importance to FINADA's activities. The goal is to use the monitoring, assessment and development of operations to ensure process compliance and continuous improvement. FINADA's quality management system was audited by DNV Certification Oy/Ab in February 2013. The system was recertified in conjunction with the audit. DNV confirmed that the system fulfils the requirements of the ISO 9001:2008 quality management standard, the World Anti-Doping Code (WADC) and WADA's international standards.

In addition to the annual external audit by DNV, FINADA carries out annual internal audits to ensure system compliance and functionality. The audits also serve as a tool for continuous development of the system.

In 2013, FINADA carried out six internal audits, five of which were conducted with actual doping control situations and one at the FINADA office. The audit results indicate that doping control officers and the performance of testing are at a high level and meet the requirements of WADA's International Testing Standard.

Office

In 2013, FINADA's office employed ten full-time employees and three part-time employees (medical and legal matters). The office staff is listed in [Appendix 1](#).

DOPING CONTROL AND TESTING



Doping testing

In 2013, FINADA carried out 3,294 doping tests in Finland and abroad (2012: 3,634). Of the total number, 2,877 (2012: 3,006) were carried out under FINADA's national testing programme. Of these, 27 (2012: 122) were blood tests. In addition, FINADA took 245 blood samples under the national Athlete Biological Passport system. The total number of tests declined slightly from the previous year, and the number of blood tests in particular was lower than planned, due to FINADA waiting for clarification from WADA on the decision limits for growth hormone tests.

FINADA carried out 417 (2012: 628) in-competition and out-of-competition tests at the request of other antidoping organisations and national and international federations, for a total of 18 different federations. Of these, 252 (2012: 453) were in-competition tests and 165 (2012: 175) were out-of-competition tests. International cooperation in testing activities is important for FINADA. In 2013, FINADA achieved its target and executed all international testing requests.

The number of in-competition tests carried out under the national testing programme was 1,424 (2012: 1,436) and the number of out-of-competition tests was 1,453 (2012: 1,570). Tests were carried out in 83 disciplines (2012: 86). The most tested disciplines in FINADA's testing programme were ice hockey with 233 (2012: 215), athletics with 188 (2012: 228), powerlifting with 175 (2012: 204), football with 160 (2012: 148) and cross-country skiing with 158 (2012: 170). The doping test statistics can be found in [Appendix 2](#).

In 2013, FINADA took, as planned, 245 blood samples for athletes' personal profiles in addition to actual doping control samples. The number of these samples taken for the Athlete Biological Passport (ABP) system was substantially higher than in the previous year (2012: 104). The number of athletes included in the profiling system was also increased.

FINADA continued to carry out the long-term freezing of samples, which began in 2011. Some of the doping samples

will be stored for potential re-analysis. According to the World Anti-Doping code, the samples can be stored for eight years.

The majority of the out-of-competition doping tests were carried out on a targeted basis, with the tested athlete named in advance. Targeted tests are carried out in individual and team sports, both in and out of competition. For in-competition tests, the majority of tested athletes were selected either on the basis of their placing in the competition or drawn randomly. The national testing programme was implemented both in Finland and abroad. Finnish athletes were tested by Finnish doping control officers as well as foreign doping control officers at FINADA's request. In particular, athletes intending to compete at the Sochi Olympics, such as ice hockey professionals playing in the NHL, were tested outside Finland.

the testing pool system, i.e. The collection and monitoring of athletes' contact and whereabouts information, enables targeted out-of-competition testing and serves as a key tool for doping control management and implementation. In 2013,

approximately 160 athletes from some 25 disciplines were in FINADA's individual sports testing pools. All of the athletes in the testing pool system used the ADAMS calendar system created by WADA. In addition, FINADA maintains the so-called team pool system in which team-specific training information is collected from top-level teams. In 2013, the pool consisted of teams from seven disciplines. As for national teams, FINADA requests their information from the sports federation in question.

There were a total of 30 doping control officers trained and authorised by FINADA operating across Finland. Two new doping control officers received testing licences during the year. The annual training seminar for doping control officers was held on the Baltic Sea on 18-20 January 2013.

DOPING CONTROL AND TESTING



Therapeutic use exemptions (TUES)

The aim of WADA's International Standard for Therapeutic Use Exemptions is to create a uniform global practice for various organisations in granting exemptions for the therapeutic use of prohibited substances and methods. During the year, FINADA communicated the rules on therapeutic use exemptions (TUE) to athletes and other stakeholders in cooperation with its education and communication functions.

WADA's new Standard for Therapeutic Use Exemptions was published at the end of 2013, and it will be assessed in early 2014.

WADA's updates to prohibited substances and methods in 2013 included the permission of the asthma medication formoterol in inhaled form at higher dosages than previously permitted. This did not have a significant impact on the number of applications for a TUE. The total number of processed applications for a TUE was 164, containing 173 pharmaceutical substances in all. The majority of the applications pertained to glucocorticosteroids and insulins. TUE statistics for 2013 can be found in [Appendix 3](#). For more information on the activities of the Therapeutic Use Exemption Committee, please refer to the section "[Administration](#)".

The FINADA website includes Erkka, an interactive exemption search engine. With Erkka, athletes can check whether they need a TUE for a pharmaceutical substance or a method they use. Erkka also indicates where to apply for the TUE (if any). The TUE appendix, providing comprehensive guidelines with regard to TUES, has been updated and translated into Swedish and English.

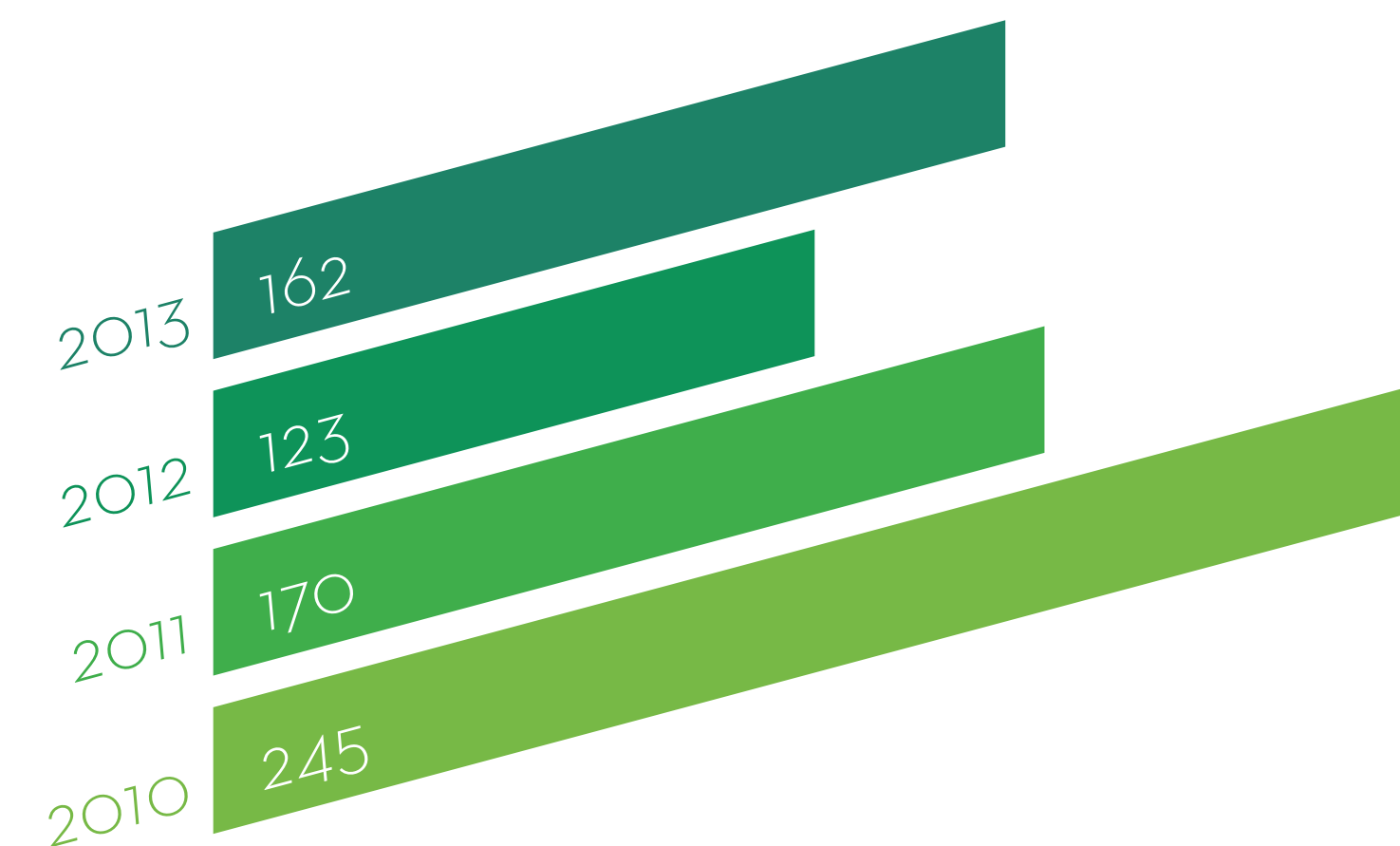


Chart 1.
Processed applications for a TUE in 2010–2013.



DOPING CONTROL AND TESTING



Results management

FINADA is responsible for doping test results management when the test has been carried out at FINADA's request, authorised by FINADA, or when FINADA otherwise detects antidoping rule violations pertaining to its jurisdiction.

FINADA assesses all cases that a laboratory has indicated to be positive, and other suspected antidoping rule violations, before they are brought to the Supervisory Board. FINADA also reviews the athlete's potential therapeutic use exemptions. On the basis of FINADA's assessment and review, it is decided whether the case will be presented to the Supervisory Board as a potential antidoping rule violation. FINADA also informs the parties determined in the Finnish antidoping codes. In 2013, FINADA handled a total of 17 cases. Of these, ten were antidoping rule violations.

Antidoping rule violations for 2013 are listed in [Appendix 2](#).

The case of Juha Lallukka was reopened in 2013 after the Court of Arbitration for Sport (CAS) issued a resolution on the case of Andrus Veerpalu. On 19 June 2013, the Supervisory Board decided to acquit Juha Lallukka, who was suspected of having used growth hormone, due to a lack of scientific evidence with respect to the decision limits for growth hormone tests set by WADA. FINADA filed an appeal regarding the decision to the Finnish Sports Arbitration Board. After hearing statements, the Finnish Sports Arbitration Board agreed with the Supervisory Board decision by a 3-2 vote. FINADA considered taking the case to CAS, but ultimately decided to support WADA's move to take the case to CAS.



ANTIDOPING EDUCATION



FINADA was active in organising education and training sessions on antidoping issues in cooperation with sports federations and organisations, sports-oriented educational institutions and sports academies. Sports clubs also commissioned training sessions. Education was primarily targeted at young athletes, top-ranked athletes and coaches. A total of 106 education or training events were organised in 2013, with a total audience of 3,442 (see Chart 2). Education and training events are listed in [Appendix 4](#).

The new education and training strategy was completed in March 2013. The strategy working group convened four times. The Chair of the working group was Director Tuula Lybeck (Finnish Ministry of Education and Culture). The working group consisted of six members as well as FINADA's Information Manager and Education Manager.

Increasing cooperation with sports federations and developing their antidoping programmes were the most important tasks in training and education activities. At sports federation meetings, sports federations were encouraged to include antidoping education and training in their athlete and coach education and training activities. Education and training events commissioned by sports federations accounted for approximately half of the total.

Sports academies are local cooperation networks that link together sports and academic studies, which makes them one of the most important cooperation partners in antidoping education and training. Antidoping education and training was included in the operational guidelines and criteria of sports academies through cooperation between FINADA, the Olympic Committee and the Research Institute for Olympic Sports. Antidoping education and training was organised a total of 15 times at eight academies and the sports-oriented upper secondary schools in their respective areas.

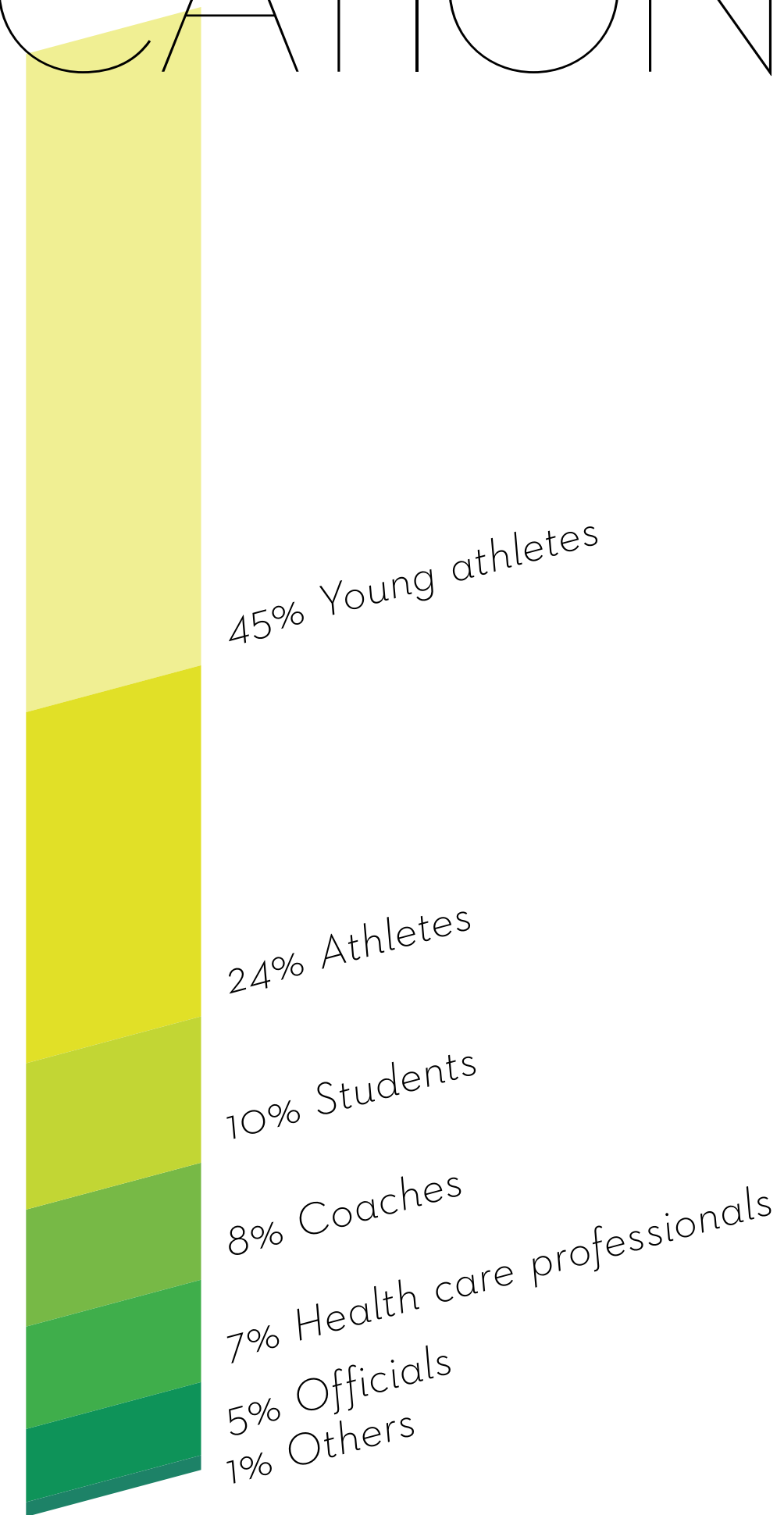


Chart 2.
Target groups for training and education in 2013.

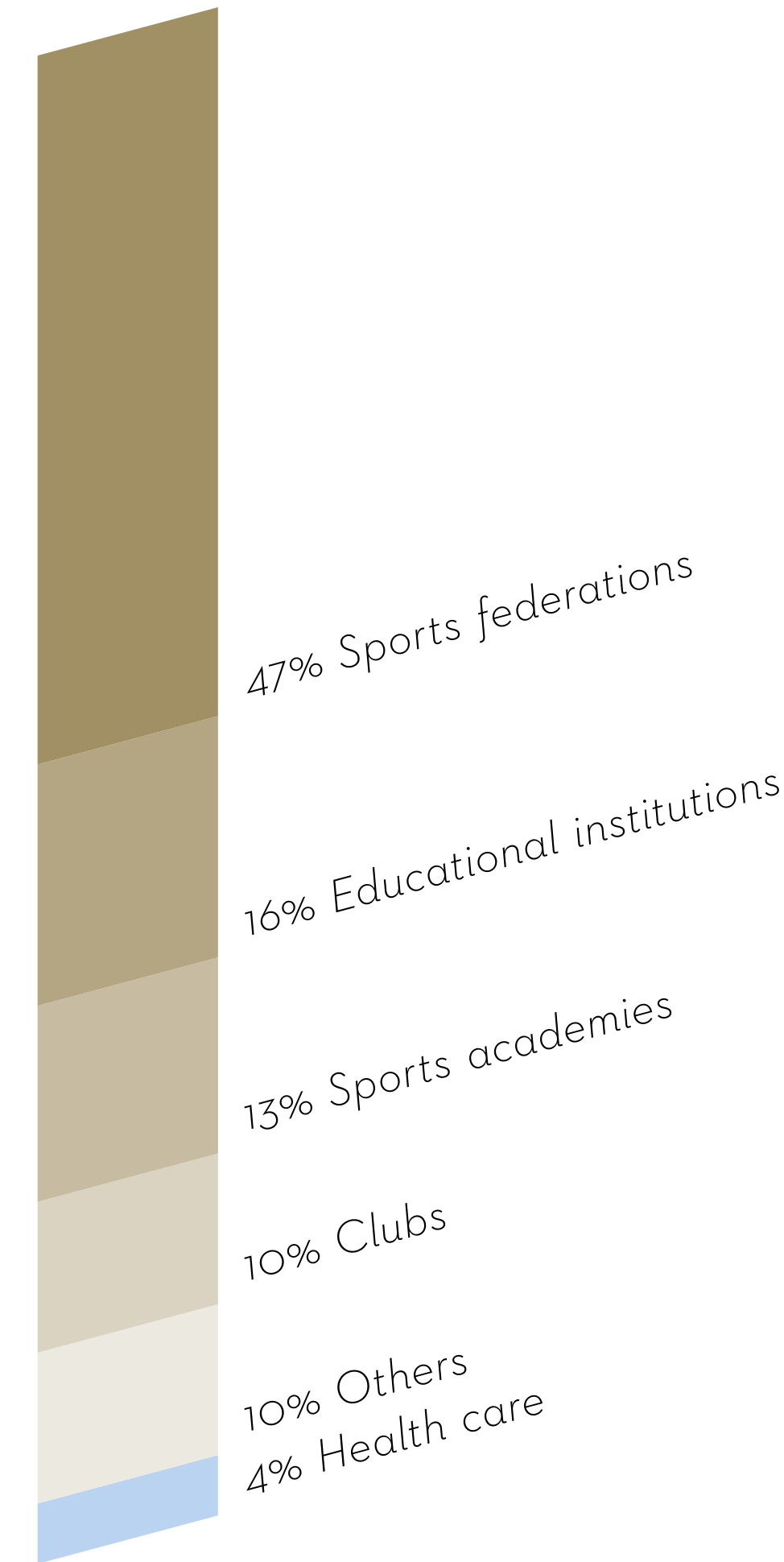


Chart 3.
Parties that commissioned training and education from FINADA in 2013.



ANTIDOPING EDUCATION

Sports institutes provide education and training for vocational upper secondary qualifications, further vocational qualifications and specialist vocational qualifications. They also provide continuing education in the field and act as coaching centres for different disciplines. A total of 17 education and training events were organised in relation to these qualifications in cooperation with FINADA.

The “Clean Win Antidoping Guide”, the “Prohibited Substances and Methods in Sports” publication and the “Therapeutic Use Exemptions and Prohibited Substances and Methods in Sports” appendix were distributed at education and training events. The PowerPoint slides used in education and training activities were updated at the beginning of the year. Presentations are available for different target groups in three languages (Finnish, Swedish and English).

A seminar for FINADA accredited trainers was held in Kirkkonummi in early November. A total of 17 trainers participated in the seminar. At a national level, a total of 17 trainers ran antidoping training and education sessions. The management of education and training events was transferred to the online Antidoping Passport system at the beginning of the year.

In 2014, education and training will be integrated into the FINADA quality system, and the activities will be managed using the IMS integrated quality management system. The most important processes and documents related to education and training were transferred to the IMS system at the end of the year.

FINADA was actively involved in international education cooperation in 2013. FINADA partnered with the Anti-Doping Authority of the Netherlands to organise a training seminar that was attended by 17 participants from 14 countries.

In its training and education activities, the Clean Win programme (see [Communications](#)) focused on participating in events by setting up Clean Win information stands. Events are listed in [Appendix 5](#). The purpose of the information stands was to provide athletes and their support personnel, as well as spectators, with information on antidoping issues.

COMMUNICATION

In January 2013, the list of Prohibited Substances and Methods in Sports was published both on the FINADA website and in printed format. Of printed materials, the “Athlete’s therapeutic use exemption” guide and the “Prohibited substances and methods in sports” book were updated in Finnish and Swedish. The guide was also published in English on the FINADA website.

FINADA published newsletters for sports federations and doping control officers four times during the year. Two newsletters for athletes in the testing pool were also published.

An antidoping event for sports federations was organised on 15 May. The themes discussed at the event included the reform process of the World Anti-Doping Code and the Finnish antidoping code, actual doping control issues and other topical antidoping control issues.

On 24 October, FINADA partnered with United Medix Laboratories Ltd to organise a media event for members of the Helsinki Sports Journalists’ Association. The event programme included a laboratory tour and doping test demonstrations. FINADA office and laboratory experts were also on hand to discuss the development of doping control. The athlete’s perspective was brought to the event by ski-orienteer Matti Keskinarkaus, freestyle skier Jouni Pellinen and wheelchair sprinter Toni Piispanen.

FINADA published more than 30 press releases in 2013. The press releases were published on the agency’s website at www.antidoping.fi and, where necessary, on the website of the Clean Win Programme www.puhtaastiparas.fi. The press releases were also sent electronically to FINADA’s network.

FINADA launched its new Finnish website on 2 January 2013. Other language versions (English and Swedish) will be published in 2014, and the website will also be developed further to make it more responsive and to improve the search engine. FINADA launched its own YouTube channel in summer 2013. The channel features greetings from athletes and videos from various events.



COMMUNICATION



The Clean Win Programme

Started in 2008, the Clean Win Programme promotes clean sport by encouraging open discussion on doping. FINADA and Fazer shine the spotlight on ethical and fair athletes. This programme invites Finnish sports fans, sporting organisations, the friends and relatives of athletes and athletes themselves to get involved in fair play.

The Clean Win Programme cooperates closely with sports federations. On the basis of the set of assessment criteria for the antidoping programmes of sports federations, published at the end of 2011, help was provided to approximately 15 sports federations in developing their antidoping programmes. The Clean Win Stars were joined by a new member, snowboarder Enni Rukajärvi, in 2013.

The sports federations and star athletes involved in the Clean Win programme are:

- Finnish Ski Association:
Anssi Koivuranta
- Finnish Judo Association:
Jani Kallunki
- Finnish Snowboard Association:
Enni Rukajärvi
- Finnish Ski Association
/ Cross-country skiing:
Aino-Kaisa Saarinen
- Football Association of Finland:
women's national football team
- Finnish Floorball Federation:
men's national floorball team
- Finnish Figure Skating Association:
Laura Lepistö
- Finnish Tennis Association:
Jarkko Nieminen

The captain of the Clean Win Stars is olympic winner javelin-thrower

- Tapio Korjus.

In 2013, the Clean Win information stand completed a tour of 18 events, including the Finnish Sports Gala and the Hopeasompa youth cross-country skiing finals. The Clean Win shuttle relay received a great deal of exposure at the Stafettkarnevalen relay racing event for Swedish-speaking schools. FINADA's antidoping work was actively and prominently on display on the tour. The Clean Win tour calendar can be found in [Appendix 5](#).

In 2013, the challenge campaign for international sporting events organised in Finland included the Ice Hockey U18 Women's World Championships, the World Junior Synchronized Skating Championships, the Ice Hockey World Championships, the World Orienteering Championships and the European Athletics U23 Championships.



INTERNATIONAL ACTIVITIES



FINADA has an active role on the international stage. Its aim is to ensure that antidoping rules and activities are consistent and athletes have an equal right to clean sports in all parts of the world.

The World Anti-Doping Agency (WADA)

The World Anti-Doping Code was finalised in 2013. The statements by the Council of Europe and the European Union, which FINADA helped prepare, were taken into consideration well in the reform process. The new World Anti-Doping Code was approved on 15 November 2013 at the World Congress in Johannesburg, and it will enter into force on 1 January 2015. All antidoping organisations will reform their own antidoping codes in 2014. Extensive instructions and guidelines were provided at the World Congress for the revision of national antidoping codes.

The Annual WADA Symposium with Anti-Doping Organisations was organised in Lausanne on 19–20 March 2013, with FINADA representatives on hand. Issues related to the reform of the World Anti-Doping Code were highlighted at the symposium. The Annual WADA Symposium is a key forum for FINADA to meet international sports federations and agree on cooperation and operating practices related to doping control.

Institute of National Anti-Doping Organisations (iNADO)

The number of iNADO members grew from 23 to 39 in 2013. The iNADO general assembly was held in conjunction with the WADA Symposium on 18 March 2013. The general assembly elected iNADO's first Board of Directors by a general vote. In 2013, iNADO provided support to events organised by a total of eight national antidoping agencies, and also supported WADA in the development of its regional activities. In addition, iNADO organised a legal seminar in Cape Town on 10–11 November 2013 in conjunction with the World Congress. FINADA has been actively involved in iNADO operations.

In 2013, iNADO regularly compiled a summary of issues that are important to antidoping agencies, and organised seminars for the management of national antidoping agencies in conjunction with various international events. It also exercised active influence on the reform of the World Anti-Doping Code. Furthermore, iNADO has official observer status in the Monitoring Group for the Council of Europe's Anti-Doping Convention, the Ad Hoc European Committee for the World Anti-Doping Agency (CAHAMA) and the international antidoping agreement (IADA). A similar status for meetings of WADA is also being sought. The goal of iNADO is to exercise influence and carry out advocacy work for national antidoping agencies.

The Institute of National Anti-Doping Organisations (iNADO) was established in early 2012. It operates under UK legislation and its headquarters are located in Bonn, Germany. Lawyer Joseph de Pencier from Canada is iNADO's Chief Executive Officer.



INTERNATIONAL ACTIVITIES



The United Nations Educational, Scientific and Cultural Organisation (UNESCO)

From the perspective of WADA, it is important that governments are committed to supporting and developing its activities by signing the UNESCO International Convention Against Doping. By the end of 2013, a total of 176 countries had ratified the Convention. UNESCO continues to actively promote commitment to the Convention. The organisation also has a separate voluntary fund for educational antidoping projects. Finland has been represented on the fund's Board of Directors since 2013.

The UNESCO International Convention Against Doping entered into force in Finland and internationally on 1 February 2007. A Conference of Parties is convened every two years.

Council of Europe (COE)

In 2013, the Monitoring Group for the Council of Europe's Anti-Doping Convention focused on developing the Convention's monitoring system and improving cooperation at a European level in exercising influence in WADA affairs. A particular target for exercising influence was the reform of the World Anti-Doping Code. Several European proposals were approved for inclusion in the new World Anti-Doping Code.

In 2013, FINADA participated in meetings of the Monitoring Group for the COE's Anti-Doping Convention and the Coordination Group for WADA affairs (CAHAMA). Finland has the Chair of the Advisory Group for Commitment.

The European Union

The Council of the European Union has an expert group for antidoping issues. Both the Ministry of Education and Culture and FINADA have representatives in this working group, which prepares antidoping issues assigned to it for the Sport Council. In particular, the group has prepared comments on the World Anti-Doping Code from the perspective of the EU legislation. The group has established a separate ad hoc working group, which in 2013 prepared a report on doping as a social problem.

In addition, FINADA participates in the Ministry of Education and Culture's national working group coordinating the EU's sports and youth issues.



INTERNATIONAL ACTIVITIES



International Anti-Doping Arrangement (IADA)

The International Anti-Doping Arrangement (IADA) is a governmental collaboration body of the world's leading high-quality antidoping countries and their national antidoping agencies. IADA is an intergovernmental alliance with strong involvement by national antidoping agencies. The member countries are Australia, Canada, Finland, Denmark, the Netherlands, New Zealand, Norway, South Africa, Sweden and the United Kingdom. Japan was approved as the 11th member country of IADA in 2013.

The aim of IADA and its member countries is to exercise active influence on WADA's decision making and the development of the WADA Code and Standards.

In 2013–2014, South Africa chairs IADA and serves as the location for its Secretariat. An IADA meeting was organised in 2013 in Cape Town in conjunction with the WADA World Congress. Important topics at the IADA meeting included exercising influence on the World Anti-Doping Code, the exchange of information and experiences between countries engaged in high-quality antidoping work, and a project led by New Zealand to develop performance indicators for evaluating antidoping efforts at a national level.

Nordic cooperation

Nordic cooperation is significant for the development of FINADA's activities and the joint efforts in international lobbying. Annual meetings address organisational solutions, funding, codes, testing, education and research. The 2013 meeting was held in Copenhagen, Denmark on 22–24 May 2013.

The most significant project in 2013 was the continued development of the joint Nordic unit specialising in the analysis of athletes' blood profiles (Nordic Athlete Passport Management Unit NAPMU). The project has a shared Nordic funding base and is managed from Oslo. Swedish researcher Jenny Schulze was recruited in 2013 to be the manager of NAPMU. The operations have started well and the analysis unit has also received requests for consultation from countries outside the Nordic region.



RESEARCH AND REPORTS



Research

FINADA promotes antidoping research by organising negotiations, providing information on funding options and, where necessary, supporting the launch of various minor projects. In 2013, the representatives of FINADA and United Medix Laboratories Ltd attended an invitational seminar on the scientific development of antidoping activities, organised by the United States Anti-Doping Agency (USADA).

WADA allocates USD 6,000,000 of its annual budget to international antidoping research in biomedicine and USD 200,000 to research in behavioural and social sciences.

United Medix Laboratories Ltd has been responsible for WADA-funded research projects in the field of antidoping in Finland. The focus of the laboratory's research has been on the development of analysis methods. A summary of the research carried out by United Medix Laboratories Ltd is provided in [Appendix 7](#).

Athlete survey

FINADA regularly asks athletes for feedback on doping tests it has carried out and on its operations in general, with the aim of improving the quality and functionality of doping control and antidoping work carried out by FINADA as well as uncovering any problematic areas.

In 2013, the doping testing assessment survey was given to all tested athletes during three individual months. The survey was carried out by either giving the athletes an evaluation form in conjunction with testing, or by e-mailing them a link to an electronic survey. All responses were processed anonymously. Athletes were asked to assess the practical execution of doping tests (presentation of the notification of the doping test, information and instructions provided during the test, the sample sealing procedure, ease of use and reliability of doping test equipment, test premises, reliability of the doping test and general atmosphere during the test) as well as the behaviour of doping control

officers (expertise, attitude, friendliness, trustworthiness and communications and language skills).

The responses to the 2013 athlete survey were very similar to those submitted in the previous years. A clear majority rated both doping control and the reliability of FINADA's operations as excellent. None of the respondents rated FINADA's reliability as poor. The majority of the athletes that responded to the survey also considered the atmosphere during the test and the actions and attitude of doping control officers as either excellent or good. Over 90 per cent of the respondents also rated FINADA's cooperativeness and fairness as either good or excellent.

Athletes were also requested to provide suggestions for improvement to FINADA. FINADA has utilised the feedback in the training of doping control officers and the further development of testing activities. The feedback will also be utilised in the development of FINADA's education and training activities as well as its communication materials.



RESEARCH AND REPORTS



Sports federation survey

In December 2012–February 2013, FINADA carried out a survey of sports federations focused on the development of cooperation. The purpose of the survey was to collect current information on the level of familiarity and satisfaction with FINADA among sports federations.

Slightly more than 80 per cent of the respondents were fairly or very familiar with FINADA. According to the respondents, FINADA has succeeded in its work. The general image and overall score were very high. FINADA was regarded as reliable, competent, expert and fair. The aspects of FINADA's operations that respondents were the most familiar with included the Clean Win Programme, the Therapeutic Use Exemption procedure

and level determinations, as well as the consequences of antidoping rule violations.

Approximately 80 per cent of the respondents felt that an appropriate number of doping tests are carried out in Finland. The respondents believed that doping analysis will be more effective in the future and violations will be easier to detect. The respondents indicated that, going forward, they would like to see FINADA increase its communication, education and training activities targeted at young people, improve its communication with sports federations, provide up-to-date information and develop the targeting and timing of testing.



DEVELOPMENT PROJECTS

Recreational athletes' antidoping programme

FINADA is involved in an expert role in coordinating a recreational athletes' antidoping project funded by the Finnish Ministry of Education and Culture and the Finnish Ministry of Social Affairs and Health via Finland's Slot Machine Association. The A-Clinic Foundation is in charge of the practical implementation of the project. During 2013, FINADA was responsible for the management of the project's funding and participated in its development in the board of the project.

The Dopinglinkki.fi online service provided by the A-Clinic Foundation utilises existing research information and expertise of corresponding Nordic services and also cooperates with research projects. The aim of the service is to reduce and prevent the use of doping substances and resulting health hazards. The amount of information, health counselling, training and education provided has been increased especially through the online service as well as through different education and training events and the media. During the project, the participants established cross-sectoral networks between the Finnish Ministry of Social Affairs and Health and the Finnish Ministry of Education and Culture and new partnerships among the A-Clinic Foundation, the Finnish Antidoping Agency FINADA and Valo - Finnish Sport Confederation.



FINANCES

Important events during and after the financial year

The finances of the Finnish Antidoping Agency FINADA are based on the operational assistance and aid granted for separate projects by the Finnish Ministry of Education and Culture. No joining or membership fees apply to members. In 2013, the Ministry of Education and Culture granted FINADA operational assistance to the amount of EUR 2,900,000. Of the total amount, EUR 80,000 was allocated to the recreational athletes' antidoping project. FINADA received project funding as follows:

- Development of IT administration:
EUR 20,000
- Developing the antidoping work of sports federations in 2013–2015:
EUR 40,000

FINADA's accounts for 2013 show a surplus of EUR 253.85. FINADA's balance sheet remains at a healthy level and shows equity amounting to EUR 526,899.35.



APPENDICES



APPENDIX 1

FINADA bodies and staff



Board 2012–2013 (name and appointing organisation)

Member	Deputy Member	Members	Deputy Member
<p>Chair</p> <ul style="list-style-type: none"> • Master of Laws, Senior Vice President, Communications and CSR Pekka Ilmivalta Finnish Olympic Committee 	<ul style="list-style-type: none"> • Sports Director Kari Niemi-Nikkola Finnish Olympic Committee 	<ul style="list-style-type: none"> • Senior Advisor Hannu Tolonen Ministry of Education and Culture 	<ul style="list-style-type: none"> • Master of Social Sciences, General Secretary Minna Paajanen Ministry of Education and Culture
<p>Vice-Chair</p> <ul style="list-style-type: none"> • Master of Laws, Director Tuula Lybeck Ministry of Education and Culture 	<ul style="list-style-type: none"> • Master of Laws, Senior Advisor Heidi Sulander Ministry of Education and Culture 	<ul style="list-style-type: none"> • Professori, Chief Physician, Olli J. Heinonen Ministry of Education and Culture 	<ul style="list-style-type: none"> • Master of Sport and Health, Senior Advisor Mari Miettinen Ministry of Education and Culture
		<ul style="list-style-type: none"> • Master of Laws, Senior Expert Petri Heikkinen Finnish Sports Federation* 	<ul style="list-style-type: none"> • Secretary General Michael Oksanen Finnish Sports Federation*
		<ul style="list-style-type: none"> • Docent in Physiatics, Chief Physician Olavi Airaksinen Finnish Society for Sports Medicine 	<ul style="list-style-type: none"> • Docent, Director Tommi Vasankari Finnish Society for Sports Medicine
		<ul style="list-style-type: none"> • Permanent Expert Member: Matti Keskinarkaus Finnish Olympic Committee, Athletes' Commission 	<p><i>*As of 25 November 2013, the membership of the Finnish Sports Federation was transferred to Valo, the Finnish Sport Confederation.</i></p>

APPENDIX 1

FINADA bodies and staff



Supervisory Board 2013–2014

Jurist Members

Chair

- Licentiate of Laws
Esa Schön

First Vice-Chair

- Attorney at Law,
Master of Laws and Master of Economics
Markus Manninen

Second Vice-Chair

- Doctor of Laws, Professor of Sports Law
Olli Norros

Deputy Member

- Attorney at Law
Saara Raitala

Doctoral Members

- Licentiate of Medicine
Heikki Laapio
 - Doctor of Medicine, Docent
Heikki Tikkanen
 - Licentiate of Medicine
Jenni Leppävuori
- #### Deputy Member
- Doctor of Sport and Health Sciences,
Licentiate of Medicine
Esa Liimatainen

Sports Specialists

- Doctor of Philosophy (Economics),
Head of Development
Jan Erik Krusberg
- Master of Arts
Valentin Kononen
- Managing Director
Maija Innanen
- Secretary
Master of Laws
Katja Tukiainen

Therapeutic Use Exemption Committee

Chair

- Licentiate of Medicine,
special competence: Military Medicine
Matti Lehesjoki

Vice-Chair

- Doctor of Medicine,
Specialist in Sports Medicine
Katja Mjøsund
- Licentiate of Medicine,
Specialist in Sports Medicine
Harri Helajärvi
- Doctor of Medicine, Docent,
Resident in Pediatrics,
Pediatric Endocrinologist
Päivi Miettinen (as of 21 March 2013)
- Doctor of Medicine, Lecturer
Pekka Rauhala



APPENDIX 1

FINADA bodies and staff



Office

- Secretary General
Pirjo Ruutu
- Office Manager
Maarit Juvonen
- Information Manager
Susanna Sokka
- Education Manager
Samuli Rasila
- Doping Control Manager
Katja Huotari as of 1 September 2013
- Temporary Doping Control Manager
Marjorit Nurmi until 31 August 2013
- Quality Manager
Marjorit Nurmi as of 1 September 2013
- Doping Control Coordinator
Anna Heinilä
- Doping Control Coordinator
Janne Väre
- Secretary
Titta Villanen on maternity and family leave as of 20 May 2013
- Secretary
Oona Väänänen
- Pharmacist
Anna Simula on child-care leave
- Acting Pharmacist
Rasmus Granholm
- Medical Director (part-time)
Timo Seppälä
- Legal Consultant (part-time)
Jussi Leskinen
- Secretary of the Supervisory Board (part-time)
Katja Tukiainen



APPENDIX 2



Doping test statistics

Urine and blood tests conducted by the Finnish Antidoping Agency (FINADA) in 2013 under the national testing programme

Alpine skiing	27	Canoe racing	28
American football	137	Floorball	137
Biathlon	34	Rowing	30
Fitness	57	Orienteering	36
Football	160	Taekwondo	22
Judo	30	Artistic gymnastics	22
Ice hockey	233	Triathlon	47
Bandy	24	Swimming	59
Basketball	110	Disabled sports	31
Handball	69	Mixed martial arts	21
Volleyball	114	Powerlifting	175
Cross-country skiing	158	Power bench press	38
Ski jumping	32	Nordic combined	33
Boxing	37	Athletics	188
Wrestling	82		
Weightlifting	80	Total	2,406
Finnish baseball	37	Other team sports	109
Speed skating	44	Other individual sports	362
Cycling	74	Total	2,877

In 2013, FINADA carried out 3,294 doping tests in Finland and abroad. A total of 2,877 tests were carried out under FINADA's national testing programme. Of these, 27 were blood tests. In addition, FINADA took 245 blood samples as part of the national Athlete Biological Passport programme.

Other team sports:
aesthetic group gymnastics, baseball, beach volley, curling, field hockey, futsal, ringette, rinkball, rugby, synchronised skating, underwater rugby and water polo

	FINADA	national federation	international federation or WADA	tests, total
Out-of-competition tests	1,453	0	165	1,618
In-competition tests	1,424	7	245	1,676
Tests, total	2,877	7	410	3,294

Other individual sports:
aerobics (FISAF), archery, auto racing (go-kart, rally), badminton, boot throwing, bowling, dancesport, diving, equestrian sports, fencing, figure skating, freestyle, golf, karate, kickboxing, military sports, minigolf, modern pentathlon, moto racing (enduro, motocross, road racing, speedway, trial), mountain bike orienteering, rhythmic gymnastics, sailing, senior sports, shooting, ski-orienteering, snowboarding, sport aerobics, squash, table tennis, taekwondo (ITF), taido, tennis, whitewater canoeing



APPENDIX 2



Antidoping rule violations

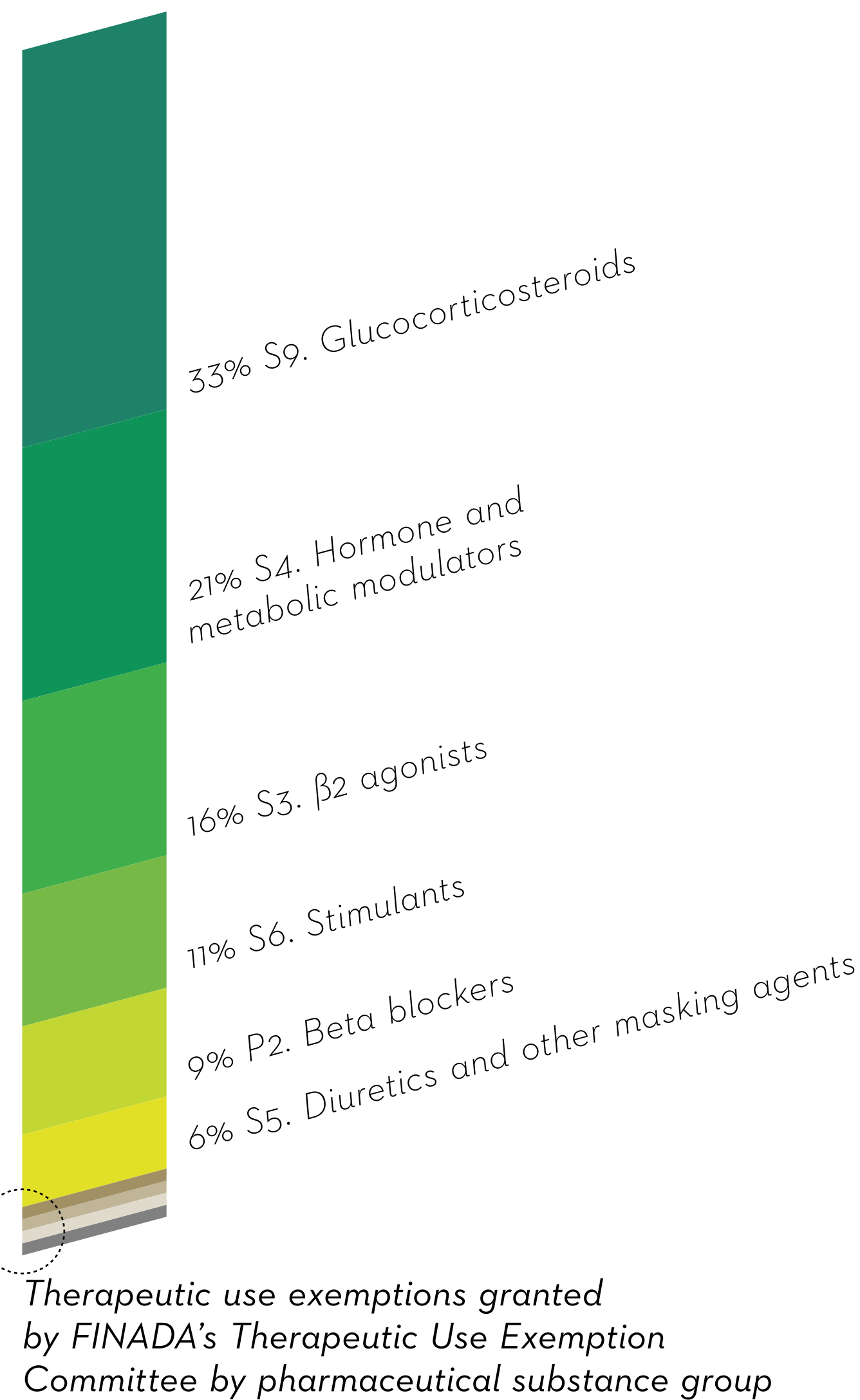
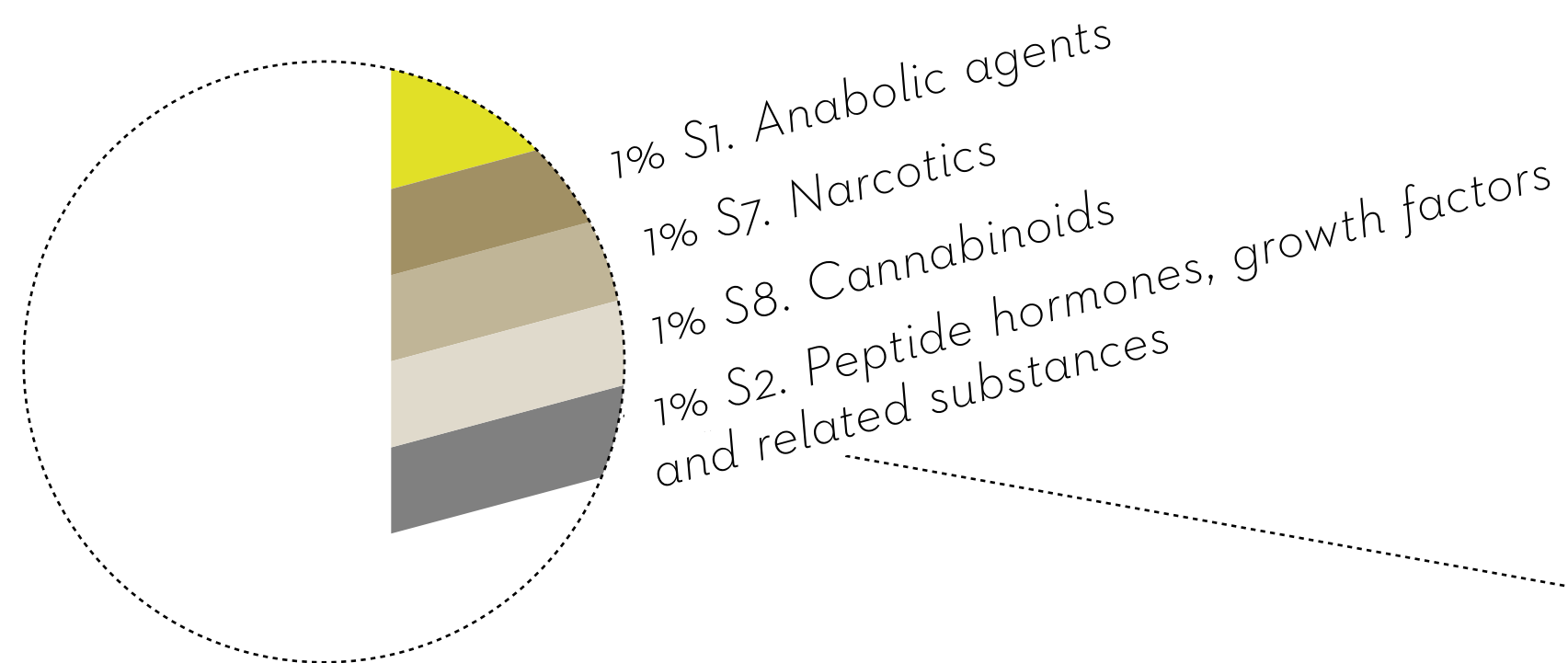
There were ten violations detected in FINADA's national testing programme in 2013. One case from 2011 is still pending.

Sport	Prohibited substance group or other violation	Sanction
Canoeing	anabolic agents	6 years
Cycling	stimulants	2 years
Fitness	anabolic agents	2 years
Fitness	refusing sample collection	2 years
Fitness	refusing sample collection	8 years
Motor sport	alcohol	1 year
Powerlifting	anabolic agents	2 years
Powerlifting	anabolic agents	2 years
Powerlifting	anabolic agents	2 years
Rugby	anabolic agents	2 years

APPENDIX 3



TUE statistics for 2013



APPENDIX 4



Education events

Date	Place	Organised / commissioned by	Target group	Participants
3 Jan. 2013	Lahti	The sports school of the Finnish Defence Forces	Young athletes	48
8 Jan. 2013	Helsinki	The Finnish Medical Convention	Health care personnel	20
9 Jan. 2013	Nastola	Finnish Boxing Association	Athletes	15
10 Jan. 2013	Helsinki	The Finnish Medical Convention	Health care personnel	30
12 Jan. 2013	Nastola	Triathlon Finland	Young athletes	39
12 Jan. 2013	Eerikkilä	Finnish Rugby Federation	Athletes	14
16 Jan. 2013	Helsinki	FIMEA laboratory personnel	Health care personnel	20
25 Jan. 2013	Helsinki	SportElite	Young athletes	10
4 Feb. 2013	Ilmajoki	South Ostrobothnia Sports Academy	Young athletes	7
6 Feb. 2013	Seinäjoki	South Ostrobothnia Sports Academy	Young athletes	24
17 Feb. 2013	Eerikkilä	Football Association of Finland	Coaches	30
22 Feb. 2013	Helsinki	SportElite	Young athletes	10
23 Feb. 2013	Lohja	Finnish Rugby Federation	Athletes	45
26 Feb. 2013	Helsinki	Helmi Business & Travel College	Young athletes	50
2 March 2013	Nastola	Paralympic Committee	Young athletes	20
3 March 2013	Varala	Combat sports	Coaches	49
3 March 2013	Kuortane	Kuortane Upper Secondary School (sports-oriented)	Young athletes	49
5 March 2013	Helsinki	Mäkelänrinne Upper Secondary School (sports-oriented)	Young athletes	30
9 March 2013	Lapua	Seinäjoki Crocodiles	Athletes	44
9 March 2013	Tampere	Finnish Gymnastics Federation	Young athletes	30

APPENDIX 4



9 March 2013	Tampere	Finnish Gymnastics Federation	Athletes	30
10 March 2013	Lohja	Finnish Ice Hockey Association	Officials	25
12 March 2013	Jyväskylä	University of Jyväskylä	Students	25
18 March 2013	Helsinki	Football Association of Finland	Coaches	15
22 March 2013	Myllykoski	Myllykosken Pallo	Athletes	28
24 March 2013	Eerikkilä	Football Association of Finland	Coaches	29
27 March 2013	Pori	NiceFutis	Athletes	25
3 April 2013	Helsinki	HEO Helsinki Evangelical Institute	Media	10
8 April 2013	Helsinki	Football Association of Finland	Officials	25
14 April 2013	Espoo	Finnish Cheerleading Federation	Officials	20
16/4/2013	Helsinki	University of Helsinki	Health care personnel	120
17 April 2013	Eerikkilä	Coaching Degree Programme	Coaches	13
17 April 2013	Kuortane	Vocational Qualification in Sports	Students	18
18 April 2013	Kuortane	Vocational Qualification in Sports	Students	20
18 April 2013	Kuortane	Vocational Qualification in Sports	Students	18
18 April 2013	Kuortane	Vocational Qualification in Sports	Students	16
20 April 2013	Tampere	Tampere Powerlifting Association	Young athletes	17
22 April 2013	Helsinki	Football Association of Finland	Officials	20
26 April 2013	Kuortane	Finnish Wrestling Federation	Athletes	34
26 April 2013	Kuortane	Sports massage therapists	Health care personnel	13
26 April 2013	Vierumäki	Finnish Basketball Association	Athletes	30
26 April 2013	Vierumäki	Finnish Basketball Association	Athletes	30

APPENDIX 4



26 April 2013	Vierumäki	Finnish Basketball Association	Young athletes	20
27 April 2013	Eerikkilä	Finnish Archery Association	Athletes	50
29 April 2013	Jyväskylä	University of Jyväskylä	Students	60
2 May 2013	Oulu	Oulu Region Academy of Sport	Young athletes	60
14 May 2013	Helsinki	Mäkelänrinne Upper Secondary School (sports-oriented)	Young athletes	25
16 May 2013	Helsinki	Brändö Upper Secondary School (sports-oriented)	Young athletes	10
17 May 2013	Helsinki	SportElite	Athletes	10
19 May 2013	Helsinki	Finnish Fencing and Modern Pentathlon Association	Athletes	20
21 May 2013	Tampere	Sampo Upper Secondary School (sports-oriented)	Young athletes	32
22 May 2013	Tampere	University of Tampere	Health care personnel	80
22 May 2013	Helsinki	American Football Association of Finland	Athletes	30
23 May 2013	Pornainen	Pornainen Heavy Team	Athletes	25
13 June 2013	Vantaa	Finnish Wrestling Federation	Athletes	12
24 June 2013	Vuokatti	Finnish Ski Association	Young athletes	60
24 June 2013	Vuokatti	Finnish Biathlon Association	Young athletes	30
12 July 2013	Papendahl, the Netherlands	Olympic Committee	Young athletes	75
29 July 2013	Nastola	Badminton Finland	Young athletes	25
29 July 2013	Nastola	Badminton Finland	Young athletes	40
29 July 2013	Nastola	Badminton Finland	Athletes	10
7 Aug. 2013	Lahti	The sports school of the Finnish Defence Forces	Athletes	60
12 Aug. 2013	Lohja	Finnish Gymnastics Federation	Young athletes	95
13 Aug. 2013	Rovaniemi	Lapland Sports Academy	Young athletes	108

APPENDIX 4



16 Aug. 2013	Kuortane	Finnish Volleyball Association	Coaches	15
23 Aug. 2013	Rovaniemi	Finnish Volleyball Association	Coaches	16
26 Aug. 2013	Vierumäki	Finnish Figure Skating Association	Athletes	21
29 Aug. 2013	Joensuu	Finnish Orienteering Federation	Athletes	15
30 Aug. 2013	Tampere	Coaching Degree Programme	Coaches	18
31 Aug. 2013	Espoo	Finnish Fencing and Modern Pentathlon Association	Athletes	30
3 Sept. 2013	Kuortane	Coaching Degree Programme	Coaches	10
7 Sept. 2013	Espoo	Finnish Dance Organization	Officials	8
6 Sept. 2013	Vantaa	Vantaan Salamat	Officials	30
14 Sept. 2013	Pietarsaari	Jeppis Power 2000	Young athletes	15
17 Sept. 2013	Helsinki	Mäkelänrinne Upper Secondary School (sports-oriented)	Young athletes	30
17 Sept. 2013	Helsinki	Mäkelänrinne Upper Secondary School (sports-oriented)	Young athletes	20
20 Sept. 2013	Jyväskylä	Finnish Dance Organization	Athletes	22
20 Sept. 2013	Kuortane	Finnish Bowling Federation	Coaches	10
23 Sept. 2013	Vantaa	Finnish Basketball Association	Athletes	40
24 Sept. 2013	Nastola	Physical education assistants	Students	25
27 Sept. 2013	Helsinki	SportElite	Athletes	6
4 Oct. 2013	Lohja	Finnish Gymnastics Federation	Athletes	80
5 Oct. 2013	Lohja	Finnish Canoeing and Rowing Federation	Athletes	20
7 Oct. 2013	Helsinki	Scandinavian Congress of Medicine and Science in Sports	Health care personnel	80
14 Oct. 2013	Vierumäki	Sports managers	Other	13
20 Oct. 2013	Pietarsaari	Jeppis Power 2000	Young athletes	12

APPENDIX 4



26 Oct. 2013	Helsinki	Tiirat Diving Team	Young athletes	15
1 Nov. 2013	Helsinki	Finnish Dance Organization	Athletes	8
2 Nov. 2013	Kirkkonummi	FINADA	FINADA trainers	17
3 Nov. 2013	Lohja	Finnish Canoeing and Rowing Federation	Officials	30
5 Nov. 2013	Vierumäki	Haaga-Helia University of Applied Sciences	Students	15
6 Nov. 2013	Tampere	Tampere Swimming Team	Young athletes	13
8 Nov. 2013	Kuopio	Sports Academy of Northern Savo	Young athletes	130
8 Nov. 2013	Vierumäki	Finnish Shooting Sport Federation	Young athletes	100
11 Nov. 2013	Helsinki	Arcada University of Applied Sciences	Students	30
12. Nov 2013	Vuokatti	Sotkamo Upper Secondary School (sports-oriented)	Young athletes	103
16 Nov. 2013	Eerikkilä	Finnish Rugby Federation	Athletes	30
19 Nov. 2013	Helsinki	Mäkelänrinne Upper Secondary School (sports-oriented)	Young athletes	24
24 Nov. 2013	Eerikkilä	Football Association of Finland	Coaches	30
29 Nov. 2013	Vuokatti	Finnish Powerlifting Federation	Young athletes	11
30 Nov. 2013	Nastola	Finnish Athletics	Young athletes	45
3 Dec. 2013	Lohja	Olympic Committee	Coaches	60
7 Dec. 2013	Helsinki	Finnish Dance Sport Association	Coaches	13
14 Dec. 2013	Pajulahti	Finnish Athletics	Young athletes	40
14 Dec. 2013	Kuortane	Finnish Athletics	Young athletes	30
28 Dec. 2013	Nastola	Finnish Judo Association	Athletes	60
Total:			106 lectures	3,442 participants



APPENDIX 5



FINADA information stands at sporting events

29 December – 5 January 2013	Heinola and Vierumäki	Ice Hockey U18 Women's World Championships
15 February 2013	Helsinki	Junior tennis tournament
2–3 March 2013	Äänekoski	Hopeasompa (skiing event)
7–9 March 2013	Lahti	World Junior Synchronized Skating Championships
4–7 April 2013	Kuusamo	Freestyle Finnish Championships
5–6 April 2013	Kuusamo	Finnish Snowboard Championships
10–12 May 2013	Tampere	Finnish Gymnastics Championships
3–19 May 2013	Helsinki	Ice Hockey World Championships
18–19 May 2013	Helsinki	Finnish Championships in Fencing and Modern Pentathlon
24–25 May 2012	Helsinki	Stafettkarnevalen relay racing event
24–26 May 2013	Vierumäki	Strength Training Seminar
6–9 June 2013	Mikkeli	Volleyball Power Cup
6–14 July 2013	Vuokatti	World Orienteering Championships
11–14 July 2013	Tampere	European U23 Championships in Athletics
19 September 2013	Tampere	Floorball Champions Cup
23 and 25 September 2013	Turku	European and World Championship Qualifiers in Women's and Girls' Football
15–17 November 2013	Helsinki	Basketball U20 European League Tournament
7 December 2013	Helsinki	Finnish Cheerleading Championships

APPENDIX 6



FINADA's international representation

The World Anti-Doping Agency WADA

WADA cooperation meeting with international federations and national antidoping agencies

- Pirjo Ruutu
- Marjorit Nurmi

WADA World Congress

- Pirjo Ruutu
- Marjorit Nurmi

Council of Europe (COE)

Monitoring Group for the COE's Anti-Doping Convention

- Pirjo Ruutu

Coordinating meeting for WADA issues

- Pirjo Ruutu

Advisory Group for Commitment

- Pirjo Ruutu

Advisory Group on Education seminar

- Samuli Rasila

Children's participation and protection in sports

- Anna Heinilä

The European Union

Sport Council of the European Union, Antidoping Expert Group

- Pirjo Ruutu

International Anti-Doping Arrangement IADA

Steering Committee

- Pirjo Ruutu
- Marjorit Nurmi

Nordic cooperation

Secretary Generals' Meeting

- Pirjo Ruutu
- Marjorit Nurmi

Administration of the Athlete's Biological Passport system

- Pirjo Ruutu
- Marjorit Nurmi

Others

USADA's invitational science symposium

- Marjorit Nurmi
- Tiia Kuuranne
United Medix
Laboratories Ltd.

International training seminar on education

- Samuli Rasila
- Susanna Sokka

European Athletic Association, delegate

- Pekka Pitkälä
doping control officer

Nordic Conference on Abuse of Anabolic Androgenic Steroids and Anti-Doping Work

- Anna Heinilä
- Susanna Sokka



APPENDIX 7



Summary of research by United Medix Laboratories Ltd.

I. Publications

Kuورانne T, Leinonen A, Nopeammin, herkemmin, tarkemmin Kliin Lab 2013: 41-45

Thevis M, Kuورانne T, Geyer H, Schänzer W, Annual banned-substance review: Analytical approaches in human sports drug testing. Drug Test Anal. 2013 Jan;5(1):1-19.

Kuورانne T, Ahola L, Pussinen C, Leinonen A, Analysis of human chorionic gonadotropin (hCG): Application of routine immunological methods for initial testing and confirmation analysis in doping control. Drug Test Anal. 2013 Jan 10. doi: 10.1002/dta.1449

Hintikka L, Haapala M, Kuورانne T, Leinonen A, Kostainen R, Analysis of anabolic steroids in urine by gas chromatography - microchip atmospheric pressure photoionization - mass spectrometry with chlorobenzene as dopant, Accepted to Journal of Chromatography A, 30th of August, 2013.

Kobayashi M, Pelander A, Ketola R, Leinonen A, Kuورانne T, Targeting misuse of 2-amino-N-ethyl-1-phenylbutane in urine samples: In vitro-in vivo correlation of metabolic profiles and development of LC-TOF/MS method, Submitted to Drug Testing and Analysis journal, 30th of October, 2013.

Thevis M, Kuورانne T, Geyer H, Schänzer W, Annual banned-substance review: Analytical approaches in human sports drug testing, Submitted to Drug Testing and Analysis journal, 31st of October, 2013.

Pussinen C, Analysis of human chorionic gonadotrophin (hCG) in doping control. Academic licentiate thesis, November 2013, Faculty of Medicine, University of Helsinki. (Supervised by Dr. Antti Leinonen and Dr. Tiia Kuورانne)

II. Research grant applications

Screening of both prohibited substances and drugs and drugs-of-abuse for revealing possible drug interactions (DRUPROSC), from WADA

III. Ongoing research projects

Development of standardized methods for the determination of hCG in urine (Helsinki University Hospital)
 • Funding provider: WADA

Development of in vitro methodology in metabolite production and analytical techniques: beta-blockers and glucocorticosteroids, TOF-MS screening and identification of their unknown metabolites (Hjelt Institute, University of Helsinki)
 • Funding provider:
 Research Foundation of Clinical Chemistry

Kuورانne T, Leinonen A. Supervisors of Ms. Heidi Hossi, M.Sc. (pharmaceutical chemistry) thesis: Universal LC-MS/MS application for the screening of compounds relevant in drugs-of-abuse and doping control analysis. Project started in 10/2013, ongoing
 • Funding provider: United Laboratories

APPENDIX 7



IV. Presentations and lectures

Kuورانne T, Recent advances in doping analysis, Helsinki, Finland, January 18th, 2013

- FINADA doping control officer training day

Kuورانne T, Doping and doping analysis, Faculty of Medicine, University of Helsinki, Finland, March 15th, 2013

- Academic lecture

Kuورانne T, Peptide analysis in doping control, seminar of the laboratory of the Finnish customs, Espoo, Finland, April 4th, 2013

- Seminar lecture

Kuورانne T, Doping and doping analysis, visit of the Alcohol Control Laboratory ACL to United Medix Laboratories, Helsinki, Finland, May 15th, 2013

- Seminar lecture

Kuورانne T, WADA International standard for laboratories and external quality assessment scheme for doping control laboratories. Course for the enhancement of laboratory skills on laboratory quality management at the Finnish institute for verification of the chemical weapons convention, Helsinki, Finland, September 11th, 2013

- Course lecture

Kuورانne T, International Standard for Laboratories and EQAS in doping control laboratory, Seminar organized by the Finnish Chromatographic Society and Finnish Mass Spectrometric Society, October 25th, 2013

- Course lecture

V. Poster presentations

Development of in vitro methodology in metabolite production and analytical techniques: beta-blockers and TOF-MS screening of unknown metabolites

- Seminar in Cologne, Germany



The Finnish Antidoping Agency
FINADA

Radiokatu 20
FI-00240 Helsinki

info@antidoping.fi
www.antidoping.fi

tel: +358 9 3481 2020
fax: +358 9 148 5195