



KING-DEVICK TEST[®]

In association with
Mayo Clinic

There is no such thing as a tough brain.

King-Devick Test in association with Mayo Clinic is an evidence-based, accurate and objective remove-from-play sideline concussion screening test.

According to studies, 85% of concussions go undiagnosed.

Until now. The **King-Devick Test in association with Mayo Clinic** is a validated, accurate and objective remove-from-play sideline concussion screening test. With results in less than two minutes, parents, coaches, athletic trainers, and medical professionals can quickly assess if an athlete requires additional medical attention.



How It Works

At the beginning of the season, establish a pre-injury baseline score on your iPad or Android tablet for your athlete. After a hard hit or suspected concussion, use the **King-Devick Test in association with Mayo Clinic** App to screen your athlete right from the sidelines or at home. According to our validated protocol, a slower than baseline post-injury test indicates that a concussion may have occurred and that your athlete should be immediately removed from play and evaluated by a licensed professional.

Every Sport. Every Athlete.



Overview of King Devick technologies, inc.

King-Devick technologies, inc. offers a broad set of evidence-based tools utilizing integrated technology for concussion management, reading performance, and neurological function. King-Devick technologies, inc. products have been scientifically validated in peer-reviewed articles published in elite medical journals related to:

- Concussion Management
- Reading Solutions
- Hypoxia
- Multiple Sclerosis
- Parkinson's Disease
- Extreme Sleep Deprivation
- ALS
- Alzheimer's Disease

King-Devick Test is a quick and objective tablet based test that, since 2011, has been validated as an effective remove-from-play sideline concussion screening test for subjects as young as five years old. Research has shown K-D Test to be highly sensitive and specific for the detection of head trauma and is valuable in identifying unwitnessed and unreported concussions.

In an effort to bring awareness to concussions, Mayo Clinic and King-Devick technologies, inc. announced a licensing agreement to co-brand the King-Devick concussion screening test as **King-Devick Test in association with Mayo Clinic** in 2015.



In addition to concussion identification, K-D Test offers evidence-based tools for reading fluency and remediation. King-Devick Test also provides products supported by research as quality of life measures in neurological conditions such as multiple sclerosis (MS), Parkinson's Disease, Amyotrophic Lateral Sclerosis (ALS), and Alzheimer's Disease; as well as functionality measures in acute hypoxia and extreme sleep deprivation.





King-Devick Test History

The King-Devick Test (K-D Test) was originally developed by Alan King, OD and Steven Devick, OD to measure saccadic performance in terms of reading ability. Researchers concluded that the K-D Test was a validated and simple method to distinguish inefficient eye movements as they relate to reading difficulties and dyslexia, which could be administered by non-eye care practitioners and parents. In 2011, *Neurology* journal published an article validating King-Devick Test as a rapid sideline screening test for concussions.

Since then, there has been over 120 other peer-reviewed studies published validating King-Devick technologies products as a quick, objective indicator of suboptimal brain function and correlates with indicators of neurological conditions such as: concussion, multiple sclerosis, Parkinson's disease, reading disabilities, hypoxia, extreme sleep deprivation, Alzheimer's Disease and other conditions.

The logo for the Chicago Tribune, featuring the words "Chicago" and "Tribune" in a black, serif font, stacked vertically.

The logo for Forbes, featuring the word "Forbes" in a blue, serif font.

The logo for Sports Illustrated, featuring the words "Sports" and "Illustrated" in a blue, bold, sans-serif font, stacked vertically.

The logo for BBC News, featuring the letters "BBC" in white on a red square background, with the word "NEWS" in white, sans-serif font below it.

The logo for The Huffington Post, featuring the words "THE HUFFINGTON POST" in a green, sans-serif font, stacked vertically.

The logo for Good Morning America, featuring the words "GOOD MORNING AMERICA" in a yellow, bold, sans-serif font, stacked vertically, with the "abc" logo to the left.

The logo for FOX 32 CHICAGO, featuring the word "FOX" in white on a red background, the number "32" in white on a blue background, and the word "CHICAGO" in white on a red background, all stacked vertically.

The logo for Reuters, featuring a circular graphic of orange dots on the left and the word "REUTERS" in a grey, sans-serif font on the right.

The logo for The Dr. Oz Show, featuring the words "THE DR. OZ SHOW" in a black, bold, sans-serif font, stacked vertically, with "THE" above "DR." and "SHOW" below "OZ".



Steve Devick Bio

Steve Devick, Chairman and CEO of King-Devick technologies, inc. has been a career entrepreneur. Throughout his tenure in the business world, he has founded multiple successful companies, including the King-Devick technologies, inc., a company that allowed him for the first time to combine his healthcare background with his business acumen.

In 2015, Mayo Clinic, for the first time in its 150-year history, executed a co-branding equity contract with an outside company, King-Devick technologies, inc. The sideline concussion screening product is now called the **King-Devick Test in association with Mayo Clinic** (KDT).

In addition to King-Devick technologies, inc, Devick has founded/co-founded a series of successful public and private companies, including Platinum Entertainment (NASDAQ: PTET) the world's largest independent and publicly traded music company with artists such as *The Beach Boys*, *The Blues Brothers*, *John Denver*, *Pete Townshend*, *Dionne Warwick* and many others. At Platinum Entertainment, Devick executive produced their House of Blues release by *Otis Rush* which, in 1999, won the Grammy for *Best Blues Album*. Additionally, Devick and well known performer/entrepreneur Dan Aykroyd, co-produced the star studded release *Blues Brothers and Friends: Live From the Chicago House of Blues*.

Devick also co-founded Blue Rhino (NASDAQ: RINO), a propane cylinder exchange company that at the time of its sale in 2004 had more locations than McDonald's, Burger King and Wendy's combined. Platinum technology (NASDAQ: PLAT) was also co-founded and in 1999 was sold for \$3.6 billion; more than any software company had sold for prior to that date. Devick also founded, Concert Hot Spot, which received a Gold Record for the sales of the video soundtrack of the *Twilight Saga* movie series.

In addition to founding and co-founding multiple businesses, Devick also produced a feature length film, *Head Games: The Global Concussion Crisis*, which addressed the epidemic of concussions in sports, and was directed by Academy Award honored Steve James. *Head Games* won Best Documentary at the Boston Film Festival and many other awards including Best Sports Documentary from both Sports Illustrated and iTunes.

Devick was recognized by Crain's Chicago Business as one of the *Forty Under Forty* business leaders; a regional finalist in Ernst & Young's Entrepreneur of the Year; New City's Most Influential People Top 20; and Chairman of the Young Presidents Organization (YPO). He also received the *Ernst Jokl Sports Medicine Award* from the United States Sports Academy for outstanding sports related medical research. In 2015, the **King-Devick Test in association with Mayo Clinic** was awarded the *Chicago Innovation Award*. KDT was selected as a winner from 535 semi-finalists, and 100 finalists. In 2016 Devick received the *Innovation of the Year Award* from the Concussion Legacy Foundation.

Outside of work, Devick has been a competition weight lifter, and won the US Nationals Bench Press Championship-Masters III Division in 2012. He completed his BS and OD degree requirements at Western Illinois University and the Illinois College of Optometry.

Fact Sheet

CEO & Chairman

Steve Devick

COO/CFO

Doug Laux

Headquarters

Oakbrook Terrace, IL

Summary

King-Devick technologies, inc. offers a broad set of evidence-based tools utilizing integrated technology for concussion management, reading performance, and neurological function. King-Devick Test products have been scientifically validated in peer reviewed articles published in elite medical journals related to:

Concussion Management | Reading Solutions | Hypoxia | Multiple Sclerosis | Parkinson's Disease | Extreme Sleep Deprivation | ALS | Alzheimer's Disease





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Press Release

January 2015

Mayo Clinic and King-Devick Test Announce Licensing Agreement to Sideline Concussion Testing

Phoenix, AZ — Concussions are in the national spotlight for the damage being done to student and professional athletes. Determining when an athlete should be removed from play is a major challenge in preventing injury. Athletes routinely deny symptoms. The CDC estimates that between 1.6 and 3.8 million students have concussions every year. In an effort to bring both awareness and increase screening, Mayo Clinic has agreed to a licensing agreement with King-Devick Test Inc, which has developed a proven indicator of ocular motor, visual and cognitive function for concussion detection and evaluation on the sidelines of sporting events to help with the decision to sideline athletes to prevent injury.

Under the terms of the agreement, the King-Devick Concussion Screening Test will be formally recognized as the **King-Devick Test in association with Mayo Clinic**. The King-Devick Test is a quick, accurate and objective concussion screening tool that can be administered on the sidelines by parents, coaches, athletic trainers, school nurses and medical professionals.

“Studies have indicated that the King-Devick test is an effective tool for the real-time evaluation of concussion because it looks at rapid eye movement and attention - both are affected by concussions,” says David Dodick, M.D., Mayo Clinic neurologist and director of Mayo Clinic’s concussion program. “Most importantly, the test is affordable and can easily be used by any youth sports league, and administered by non-medical personnel. And youth athletes are at a higher risk for concussion and a longer recovery time than adults.

“It’s a privilege to be associated with the premier health care brand in the world,” says Steve Devick, Founder and CEO of King-Devick Test. “This agreement will help us accomplish our goal of having a tool on the sidelines to help determine ‘remove from play’ for athletes to prevent further injury and be referred to qualified professionals for follow up care.”

The test requires an athlete to read single-digit numbers displayed on cards or tablet computer. After suspected head trauma, the athlete is given the test, which takes about two minutes, and the results are compared to a baseline test administered previously. If the time needed to complete the test takes longer than the baseline test time, or if the subject shows any other symptoms of a concussion, the athlete should be removed from play until evaluated by a medical professional. A new baseline is required annually.

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Peer reviewed published research has shown that The King-Devick Test requires eye movements, speech, language, and concentration, all of which can be impaired as a result of concussion. Recently more than 20 studies showing the effectiveness of the test as a quick, objective and accurate “remove from play” sideline test have been presented or published in elite scientific journals. Numerous other recent studies have been published regarding King-Devick Test as it relates to MS, Parkinson’s disease, ALS, hypoxia, extreme sleep deprivation and reading fluency. Under the agreement, Mayo Clinic will provide ongoing medical consultation in future development of the test.

The King-Devick Test has also been proven to detect un-witnessed, un-reported and “silent” concussions in athletes.

“Although concussion awareness has been a trending hot media topic at the professional and collegiate sport levels, more information must be disseminated to the high school and youth levels,” Dr. Dodick added. “Concussion guidelines are rapidly changing. Just a few years ago, athletes were expected to ‘shake it off’ and continue to play after suffering a concussion or a ‘ding.’ Today, we now know that it is unsafe for any athlete to return-to-play the same day they have suffered a concussion, and it is recommended that every athlete not return-to-play until they have been cleared by an appropriate professional.”