

PRE-PARTICIPATION PHYSICAL EVALUATION INSTRUCTIONS

STUDENTS/PARENTS

- Complete the History Form (pages 1 & 2) and the top section of the Medical Eligibility Form (page 4) PRIOR to your appointment with your healthcare provider.
- Sign the bottom of the Medical Eligibility Form (page 4) AFTER the pre-participation evaluation is complete and PRIOR to turning in the completed PPE to the school.
- Review the Student Eligibility Checklist (page 5) AND SIGN the bottom of the page PRIOR to turning in the completed PPE to the school.
- Review and sign the Concussion and Head Injury Release Form provided by the school.

HEALTHCARE PROVIDERS

- Review the History Form (pages 1 & 2) with the student and his/her parent/guardian as part of the pre-participation physical evaluation.
- Review the Physician Reminders at the top of page 3 and complete the Physical Examination Form.
- Review the Student Information at the top of page 4, complete the Medical Eligibility Form, AND SIGN page 4.

The PPE form becomes part of the student's record at their school and should not be sent to the KSHSAA.

SCHOOL ADMINISTRATORS AND SCHOOL MEDICAL PERSONNEL

- Collect the completed PPE forms with the appropriate signatures on pages 4 & 5. **ONLY** personnel with a medical or educational need to review this information should have access to the PPE form. Forms should be kept secure and confidential at all times. The PPE should **NOT** be collected by coaches at practice.
 - Based on your school's policy, determine which medical personnel or administrative staff are responsible to review and disseminate the student's medical information provided on the form. [Ensure Health Insurance Portability and Accountability Act (HIPAA) and Family Educational Rights and Privacy Act (FERPA) compliance]*
 - Provide copies of the Medical Eligibility Form to appropriate staff with supervisory responsibility of extracurricular activities (coaches, sponsors, etc.).
 - Collect the required Concussion and Head Injury Release Form signed by the student and parent/guardian.
- * Schools should have policies in place identifying who has access to a student's complete private health information found on the PPE form. The Medical Eligibility Form can be used independently to share with staff who may not need complete access to the private health information found on the PPE.

NOTE: When providing PPE information to the school, the parent/guardian may choose to turn-in the complete PPE or pages 4 & 5 only.

The annual history and the physical examination shall not be taken earlier than May 1 preceding the school year for which it is applicable. The KSHSAA recommends completion of this evaluation by athletes/cheerleaders at least one month prior to the first practice to allow time for correction of deficiencies and implementation of conditioning recommendations.





PRE-PARTICIPATION PHYSICAL EVALUATION

PPE is required annually and shall not be taken earlier than May 1 preceding the school year for which it is applicable.

Pages 1-4 are adapted from PPE: Preparticipation Physical Evaluation, 5th Edition, © 2019 American Academy of Family Physicians, American Academy of Pediatrics, American College of Sports Medicine, American Medical Society for Sports Medicine, American Orthopaedic Society for Sports Medicine, and American Osteopathic Academy of Sports Medicine. Permission is granted to reprint for noncommercial, educational purposes with acknowledgment.

HISTORY FORM (Pages 1 & 2 should be filled out by the student and **parent/guardian** prior to the physical examination)

Name	Date of Birth	Age	*Sex at Birth
Grade	School	Sport(s)	
Home Address		Phone	
Personal Physician		Parent Email	

*In cases of disorder of sexual development (DSD), designation of sex at birth may be delayed for a period of time until medical providers and family can make the appropriate determination.

Students and parents/guardian should complete pages 1-2 together. Explain "Yes" answers at the end of this form. Circle questions if you don't know the answer.

GENERAL QUESTIONS:	YES	NO
1. Do you have any concerns that you would like to discuss with your provider?	<input type="checkbox"/>	<input type="checkbox"/>
2. Has a provider ever denied or restricted your participation in sports for any reason?	<input type="checkbox"/>	<input type="checkbox"/>
3. Do you have any ongoing medical issues or recent illness?	<input type="checkbox"/>	<input type="checkbox"/>
4. Have you ever spent the night in the hospital?	<input type="checkbox"/>	<input type="checkbox"/>
HEART HEALTH QUESTIONS ABOUT YOU:	YES	NO
5. Have you ever passed out or nearly passed out during or after exercise?	<input type="checkbox"/>	<input type="checkbox"/>
6. Have you ever had discomfort, pain, tightness or pressure in your chest during exercise?	<input type="checkbox"/>	<input type="checkbox"/>
7. Does your heart ever race, flutter in your chest, or skip beats (irregular beats) during exercise?	<input type="checkbox"/>	<input type="checkbox"/>
8. Has a doctor ever told you that you have any heart problems?	<input type="checkbox"/>	<input type="checkbox"/>
9. Has a doctor ever requested a test for your heart? For example, electrocardiography (ECG) or echocardiography.	<input type="checkbox"/>	<input type="checkbox"/>
10. Do you get light-headed or feel shorter of breath than your friends during exercise?	<input type="checkbox"/>	<input type="checkbox"/>
11. Have you ever had a seizure?	<input type="checkbox"/>	<input type="checkbox"/>
HEART HEALTH QUESTIONS ABOUT YOUR FAMILY:	YES	NO
12. Has any family member or relative died of heart problems or had an unexpected or unexplained sudden death before age 35 years (including drowning or unexplained car crash)?	<input type="checkbox"/>	<input type="checkbox"/>
13. Does anyone in your family have a genetic heart problem such as hypertrophic cardiomyopathy (HCM), Marfan syndrome, arrhythmogenic right ventricular cardiomyopathy (ARVC), long QT syndrome (LQTS), short QT syndrome (SQTS), Brugada syndrome, or catecholaminergic polymorphic ventricular tachycardia (CPVT)?	<input type="checkbox"/>	<input type="checkbox"/>
14. Has anyone in your family had a pacemaker or an implanted defibrillator before age 35?	<input type="checkbox"/>	<input type="checkbox"/>
BONE AND JOINT QUESTIONS:	YES	NO
15. Have you ever had a stress fracture or an injury to a bone, muscle, ligament, joint, or tendon that caused you to miss a practice or game?	<input type="checkbox"/>	<input type="checkbox"/>
16. Have you ever had any broken or fractured bones or dislocated joints?	<input type="checkbox"/>	<input type="checkbox"/>
17. Have you ever had an injury that required x-rays, MRI, CT scan, injections or therapy?	<input type="checkbox"/>	<input type="checkbox"/>
18. Have you ever had any injuries or conditions involving your spine (cervical, thoracic, lumbar)?	<input type="checkbox"/>	<input type="checkbox"/>
19. Do you regularly use, or have you ever had an injury that required the use of a brace, crutches, cast, orthotics or other assistive device?	<input type="checkbox"/>	<input type="checkbox"/>
20. Do you have a bone, muscle, ligament, or joint injury that bothers you?	<input type="checkbox"/>	<input type="checkbox"/>
21. Do you have any history of juvenile arthritis, other autoimmune disease or other congenital genetic conditions (e.g., Downs Syndrome or Dwarfism)?	<input type="checkbox"/>	<input type="checkbox"/>

KSHSAA PRE-PARTICIPATION PHYSICAL EVALUATION

Name _____ Date of Birth _____

MEDICAL QUESTIONS:		YES	NO		
22.	Do you cough, wheeze, or have difficulty breathing during or after exercise?	<input type="checkbox"/>	<input type="checkbox"/>		
23.	Have you ever used an inhaler or taken asthma medicine?	<input type="checkbox"/>	<input type="checkbox"/>		
24.	Are you missing a kidney, an eye, a testicle (males), your spleen, or any other organs?	<input type="checkbox"/>	<input type="checkbox"/>		
25.	Do you have groin or testicle pain, a bump, a painful bulge or hernia in the groin area?	<input type="checkbox"/>	<input type="checkbox"/>		
26.	Have you had infectious mononucleosis (mono)?	<input type="checkbox"/>	<input type="checkbox"/>		
27.	Do you have any recurring skin rashes or skin infection that come and go, including herpes or methicillin-resistant Staphylococcus aureus (MRSA)?	<input type="checkbox"/>	<input type="checkbox"/>		
28.	Have you had a concussion or head injury that caused confusion, a prolonged headache, or memory problems?	<input type="checkbox"/>	<input type="checkbox"/>		
If yes, how many?					
What is the longest time it took for full recovery?					
When were you last released?					
29.	Do you have headaches with exercise?	<input type="checkbox"/>	<input type="checkbox"/>		
30.	Have you ever had numbness, tingling, weakness in your arms (including stingers/burners) or legs, or been unable to move your arms or legs after being hit or falling?	<input type="checkbox"/>	<input type="checkbox"/>		
31.	Have you ever become ill while exercising in the heat?	<input type="checkbox"/>	<input type="checkbox"/>		
32.	Do you get frequent muscle cramps when exercising?	<input type="checkbox"/>	<input type="checkbox"/>		
33.	Do you or does someone in your family have sickle cell trait or disease?	<input type="checkbox"/>	<input type="checkbox"/>		
34.	Have you ever had or do you have any problems with your eyes or vision?	<input type="checkbox"/>	<input type="checkbox"/>		
35.	Do you wear protective eyewear, such as goggles or a face shield?	<input type="checkbox"/>	<input type="checkbox"/>		
36.	Do you worry about your weight?	<input type="checkbox"/>	<input type="checkbox"/>		
37.	Are you trying to or has anyone recommended that you gain or lose weight?	<input type="checkbox"/>	<input type="checkbox"/>		
38.	Are you on a special diet or do you avoid certain types of foods or food groups?	<input type="checkbox"/>	<input type="checkbox"/>		
39.	Have you ever had an eating disorder?	<input type="checkbox"/>	<input type="checkbox"/>		
40.	How do you currently identify your gender?	<input type="checkbox"/> M <input type="checkbox"/> F <input type="checkbox"/> Other			
41.	Over the last 2 weeks, how often have you been bothered by any of the following problems? (check box)	NOT AT ALL	SEVERAL DAYS	OVER HALF THE DAYS	NEARLY EVERY DAY
	Feeling nervous, anxious, or on edge	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
	Not being able to stop or control worrying	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
	Little interest or pleasure in doing things	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
	Feeling down, depressed, or hopeless	0 <input type="checkbox"/>	1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
(A sum of 3 or more is considered positive on either subscale [questions 1 and 2, or questions 3 and 4] for screening purposes) Patient Health Questionnaire Version 4 (PHQ-4)					
FEMALES ONLY:		YES	NO		
42.	Have you ever had a menstrual period?	<input type="checkbox"/>	<input type="checkbox"/>		
43.	If yes, are you experiencing any problems or changes with athletic participation (i.e., irregularity, pain, etc.)?	<input type="checkbox"/>	<input type="checkbox"/>		
44.	How old were you when you had your first menstrual period?				
45.	When was your most recent menstrual period?				
46.	How many menstrual periods have you had in the past 12 months?				

Explain all Yes answers here from the previous two pages

Parents/Students: Complete the Medical Eligibility Form (page 4) and the KSHSAA Eligibility Checklist (page 5).

KSHSAA PRE-PARTICIPATION PHYSICAL EVALUATION

PHYSICAL EXAMINATION FORM

Name _____ Date of birth _____

Date of recent immunizations: Td _____ Tdap _____ Hep B _____ Varicella _____ HPV _____ Meningococcal _____

PHYSICIAN REMINDERS

- Review the health history on pages 1 & 2 AND the student information section on page 4, prior to the exam.**
- Consider additional questions on more sensitive issues**
 - Do you feel stressed out or under a lot of pressure?
 - Do you ever feel sad, hopeless, depressed, or anxious?
 - Do you feel safe at your home or residence?
 - Have you ever tried cigarettes, e-cigarettes, chewing tobacco, snuff, or dip?
 - During the past 30 days, did you use chewing tobacco, snuff, or dip?
 - Do you drink alcohol or use any other drugs?
 - Have you ever taken anabolic steroids or used any other performance enhancing supplement?
 - Have you ever taken any supplements to help you gain or lose weight or improve your performance?
 - Do you wear a seat belt, use a helmet and adhere to safe sex practices?
- Consider reviewing questions on cardiovascular symptoms (questions 5-14 of History Form).**
- Per Kansas statute, any school athlete who has sustained a concussion shall not return to competition or practice until the athlete is evaluated by a healthcare provider and the healthcare provider (MD or DO only) provides such athlete a written clearance to return to play or practice.**
- Per Kansas Statute, students indicated as biological male at birth may not participate on girls teams.**

EXAMINATION		
Height _____	Weight _____	Male <input type="checkbox"/> Female <input type="checkbox"/> BP (reference gender/height/age chart)**** / (/) Pulse _____
Vision R 20/ _____	L 20/ _____	Corrected: Yes <input type="checkbox"/> No <input type="checkbox"/>
MEDICAL	NORMAL	ABNORMAL FINDINGS
Appearance — Marfan stigmata (kyphoscoliosis, high-arched palate, pectus excavatum, arachnodactyly, hyperlaxity, myopia, mitral valve prolapse [MVP], and aortic insufficiency)		
Eyes/ears/nose/throat — Pupils equal, Gross Hearing _____		
Lymph nodes _____		
Heart * — Murmurs (auscultation standing, auscultation supine, and ± Valsalva maneuver)		
Pulses — Simultaneous femoral and radial pulses _____		
Lungs _____		
Abdomen _____		
Skin — Herpes simplex virus (HSV), lesions suggestive of methicillin-resistant <i>Staphylococcus aureus</i> (MRSA), or tinea corporis		
Neurological***		
Genitourinary (optional-males only)**		
MUSCULOSKELETAL	NORMAL	ABNORMAL FINDINGS
Neck _____		
Back _____		
Shoulder/arm _____		
Elbow/forearm _____		
Wrist/hand/fingers _____		
Hip/thigh _____		
Knee _____		
Leg/ankle _____		
Foot/toes _____		
Functional — e.g. double-leg squat test, single-leg squat test, and box drop or step drop test		

*Consider electrocardiography (ECG), echocardiography, referral to a cardiologist for abnormal cardiac history or examination findings, or a combination of those. **Consider GU exam if in appropriate medical setting. Having third party present is recommended. ***Consider cognitive evaluation or baseline neuropsychiatric testing if a significant history of concussion. ****Flynn JT, Kaelber DC, Baker-Smith CM, et al. Clinical Practice Guideline for Screening and Management of High Blood Pressure in Children and Adolescents. Pediatrics. 2017;140(3):e20171904.

Healthcare Providers: You must complete the Medical Eligibility Form on the following page.

KSHSAA PRE-PARTICIPATION PHYSICAL EVALUATION

MEDICAL ELIGIBILITY FORM - PARENT/STUDENT SECTION

Student Name: _____ Date of Birth: _____ Sex at Birth: _____ Grade: _____
 Home Address: _____ Height: _____ Weight: _____
 Home Phone: _____ Parent Email: _____
 Emergency Contact(s): _____ Phone: _____

STUDENT INFORMATION	YES	NO		YES	NO
Do you have any current or past medical conditions in which the school should be aware?	<input type="checkbox"/>	<input type="checkbox"/>	Have you ever had a heat stroke, or become sick while exercising in the heat?	<input type="checkbox"/>	<input type="checkbox"/>
Have you ever had surgery?	<input type="checkbox"/>	<input type="checkbox"/>	Do you have asthma?	<input type="checkbox"/>	<input type="checkbox"/>
Do you have any allergies?	<input type="checkbox"/>	<input type="checkbox"/>	If yes, do you use an inhaler?	<input type="checkbox"/>	<input type="checkbox"/>
Do you have any cardiac/heart issues?	<input type="checkbox"/>	<input type="checkbox"/>	Do you or a family member have sickle cell trait or disease?	<input type="checkbox"/>	<input type="checkbox"/>
Have you ever had a seizure?	<input type="checkbox"/>	<input type="checkbox"/>	Are you missing any organs?	<input type="checkbox"/>	<input type="checkbox"/>
Have you ever had a concussion?	<input type="checkbox"/>	<input type="checkbox"/>	Have you ever spent the night in a hospital?	<input type="checkbox"/>	<input type="checkbox"/>
Do you have diabetes?	<input type="checkbox"/>	<input type="checkbox"/>	Are you currently taking any prescription medications?	<input type="checkbox"/>	<input type="checkbox"/>
If yes, do you take insulin?	<input type="checkbox"/>	<input type="checkbox"/>	Are you currently taking any nutritional supplements?	<input type="checkbox"/>	<input type="checkbox"/>

Please explain any "YES" answers above:

HEALTHCARE PROVIDER SECTION

- Medically eligible for all sports without restriction.
- Medically eligible for all sports without restriction. **Recommend further evaluation/treatment (see comments below*).**
- Medically eligible for certain sports **(see comments below*).**
- Not medically eligible for any sports. Not medically eligible for any sports pending further evaluation **(see comments below*).**

*Comments/Recommendations:

I have reviewed all patient information provided and completed the preparticipation physical examination of the student named on this form. The athlete does not have apparent clinical contraindications to practice and can participate in the sport(s) as outlined on this form, except as indicated above. If conditions arise after the athlete has been cleared for participation, the physician may rescind the medical eligibility until the problem is resolved and the potential consequences are completely explained to the athlete (and parents or guardians).

Name of healthcare provider (print or type): _____ Date of Examination: _____
 Signature of healthcare provider: _____ MD, DO, DC, PA-C, APRN
 Provider address: _____ Provider phone: _____

PARENT OR GUARDIAN CONSENT:

To be eligible for participation in interscholastic athletics/spirit groups, a student must have on file with the superintendent or principal, a signed statement by a physician, chiropractor, physician's assistant who has been authorized to perform this examination by their state's law and licensing body, or an advanced practice registered nurse who has been authorized to perform this examination by their state's law and licensing body, certifying the student has passed an adequate physical examination and is physically fit to participate (See KSHSAA Handbook, Rule 7). A complete history and physical examination must be performed annually before a student participates in KSHSAA interscholastic athletics/cheerleading.

I do not know of any existing physical or any additional health reasons that would preclude participation in activities. I certify that the answers to the questions in the HISTORY part of the Preparticipation Physical Examination (PPE), are true and accurate. I understand that any false or misleading information provided as part of this exam could result in disqualification from activity participation for my child and my child's teams. I approve participation in activities. I hereby authorize release to my child's medical providers, school medical personnel (whether employee or independent contractor of the school), school administration, school coaches, and KSHSAA the information contained in this document. I acknowledge I may choose to only submit to my child's school this medical eligibility page in lieu of the entire history and physical exam document. Upon written request, I may receive a copy of this document for my own personal health care records.

I acknowledge that there are risks of participating, including the possibility of catastrophic injury. I hereby give my consent for the above student to compete in KSHSAA approved activities, and to accompany school representatives on school trips and receive emergency medical treatment when necessary. It is understood that neither the KSHSAA nor the school assumes any responsibility in case of accident. The undersigned agrees to be responsible for the safe return of all equipment issued by the school to the student.

Signature of parent/guardian: _____ Date: _____ Phone: _____

The parties to this document agree that an electronic signature is intended to make this writing effective and binding and to have the same force and effect as the use of a manual signature.

ATTENTION PARENTS AND STUDENTS: KSHSAA ELIGIBILITY CHECKLIST

Student Name:

Date of Birth:

(PLEASE PRINT CLEARLY)

NOTE: Transfer Rule 18 states in part, a student is eligible transfer-wise if:

BEGINNING SEVENTH GRADER—A seventh grader, at the beginning of his or her seventh grade year, is eligible under the Transfer Rule at any school he or she may choose to attend. In addition, age and academic eligibility requirements must also be met.

BEGINNING NINTH GRADERS IN A THREE-YEAR JUNIOR HIGH SCHOOL—So that ninth graders of a three-year junior high are treated equally to ninth graders of a four-year senior high school, a student who has successfully completed the eighth grade of a two-year junior high/middle school, may transfer to the ninth grade of a three-year junior high school at the beginning of the school year and be eligible immediately under the Transfer Rule. Such a ninth grader must then, as a tenth grader, attend the feeder senior high school of their school system. Should they attend a different school as a tenth grader, they would be ineligible for eighteen weeks.

ENTERING HIGH SCHOOL FOR THE FIRST TIME—A senior high school student is eligible under the Transfer Rule at any senior high school he or she may choose to attend when senior high is entered for the first time at the beginning of the school year. In addition, age and academic eligibility requirements must also be met.

For Middle/Junior High and Senior High School Students to Retain Eligibility

Schools may have stricter rules than those pertaining to the questions above or listed below. Contact the principal or coach on any matter of eligibility. A student eligible to participate in interscholastic activities must be certified by the school principal as meeting all eligibility standards.

All KSHSAA rules and regulations are published in the official KSHSAA Handbook which is distributed annually to schools and is available at www.kshsaa.org.

Below Are Brief Summaries Of Selected Rules. Please See Your Principal For Complete Information.

Rule 7 — Physical Evaluation - Parental Consent—Students shall have passed the attached evaluation and have the written consent of their parents or legal guardian.

Rule 14 — Bona Fide Student—Eligible students shall be a bona fide undergraduate member of his/her school in good standing.

Rule 15 — Enrollment/Attendance—Students must be regularly enrolled and in attendance not later than Monday of the fourth week of the semester in which they participate.

Rule 16 — Semester Requirements—A student shall not have more than two semesters of possible eligibility in grade seven and two semesters in grade eight. A student shall not have more than eight consecutive semesters of possible eligibility in grades nine through twelve, regardless of whether the ninth grade is included in junior high or in a senior high school.

NOTE: If a student does not participate or is ineligible due to transfer, scholarship, etc., the semester(s) during that period shall be counted toward the total number of semesters possible.

Rule 17 — Age Requirements—Students are eligible if they are not 19 years of age (16, 15 or 14 for junior high or middle school student) on or before August 1 of the school year in which they compete.

Rule 19 — Undue Influence—The use of undue influence by any person to secure or retain a student shall cause ineligibility. If tuition is charged or reduced, it shall meet the requirements of the KSHSAA.

Rules 20/21 — Amateur and Awards Rules—Students are eligible if they have not competed under a false name or for money or merchandise of intrinsic value, and have observed all other provisions of the Amateur and Awards Rules.

Rule 22 — Outside Competition—Students may not engage in outside competition in the same sport during a season in which they are representing their school.

NOTE: Consult the coach, athletic director or principal before participating individually or on a team in any game, training session, contest, or tryout conducted by an outside organization.

Rule 25 — Anti-Fraternity—Students are eligible if they are not members of any fraternity or other organization prohibited by law or by the rules of the KSHSAA.

Rule 26 — Anti-Tryout and Private Instruction—Students are eligible if they have not participated in training sessions or tryouts held by colleges or other outside agencies or organizations in the same sport while a member of a school athletic team.

Rule 30 — Seasons of Sport—Students are not eligible for more than four seasons in one sport in a four-year high school, three seasons in a three-year high school or two seasons in a two-year high school.

For Middle/Junior High and Senior High School Students to Determine Eligibility When Enrolling

If a negative response is given to any of the following questions, this enrollee should contact his/her administrator in charge of evaluating eligibility. This should be done before the student is allowed to attend his/her first class and prior to the first activity practice. If questions still exist, the school administrator should telephone the KSHSAA for a final determination of eligibility. (Schools shall process a Certificate of Transfer Form T-E on all transfer students.)

- YES NO 1. Are you a bona fide student in good standing in school? (If there is a question, your principal will make that determination.) 2. Did you pass at least five new subjects (those not previously passed) last semester? (The KSHSAA has a minimum regulation which requires you to pass at least five subjects of unit weight in your last semester of attendance.) 3. Are you planning to enroll in at least five new subjects (those not previously passed) of unit weight this coming semester? (The KSHSAA has a minimum regulation which requires you to enroll and be in attendance in at least five subjects of unit weight.) 4. Did you attend this school or a feeder school in your district last semester? (If the answer is "no" to this question, please answer Sections a and b.) a. Do you reside with your parents? b. If you reside with your parents, have they made a permanent and bona fide move into your school's attendance center?

The above named student and I have read the KSHSAA Eligibility Checklist and how to retain eligibility information listed in this form. The student/parent authorizes the school to release to the KSHSAA student records and other pertinent documents and information for the purpose of determining student eligibility. The student/parent also authorizes the school and the KSHSAA to publish the name and picture of student as a result of participating in or attending extra-curricular activities, school events and KSHSAA activities or events.

Signature of parent/guardian Date Signature of student Grade Date

The parties to this document agree that an electronic signature is intended to make this writing effective and binding and to have the same force and effect as the use of a manual signature.