# **WISEWOMAN Program Clinical Screening Procedures**



- 1. CHECK THE EQUIPMENT. Do not use if any problems are found.
  - A. Look to see that the gauge mercury meniscus or aneroid needle is at zero. (Preferably, do not use an aneroid gauge with a stop-pin.)
  - B. Check the cuff for any breaks in stitching or tears in the fabric.
  - C. Check the rubber tubing for cracks or leaks, especially at connections.
  - D. Be sure three sizes of cuffs are accessible (small, regular, large).
  - E. Recommend 12-15 inch stethoscope tubing.
- 2. PLACE THE MANOMETER so it can be viewed straight on and within 15 inches of the viewer.
- 3. RIGHT ARM will be used when possible. Upper arm should be bare and unconstricted by clothing. (You should be able to get at least one finger under a rolled-up sleeve.)
- 4. SELECT THE APPROPRIATE SIZE CUFF. The bladder width should equal at least 40% of the circumference of the upper arm, and the length of the bladder should be 80% of the circumference of the arm, but no more than 100%.
- 5. PALPATE the location of the brachial artery (on the upper arm's inner aspect.)
- 6. POSITION the center of the cuff's bladder over the brachial artery.
- 7. APPLY THE CUFF evenly and snugly one-inch (2.5cm) above the antecubital fossa (bend of arm). CHECK SNUGNESS at both top and bottom of the cuff.
- 8. POSITION THE ARM so the cuff is at heart level. The arm should rest firmly supported on a table, slightly abducted and bent, with palm up.
- 9. For the first reading only, OBTAIN PALPATORY SYSTOLIC PRESSURE.
  - A. Palpate the radial artery pulse.
  - B. Inflate the cuff to the point where the pulse can no longer be felt.
  - C. Slowly deflate the cuff, noting on the gauge the point where the pulse reappears/can again be felt. This is the estimated systolic pressure.

Rapidly deflate the cuff. Wait at least 15-30 seconds before re-inflating the cuff to begin the first auscultatory measurement. (This allows good circulation to be reestablished.)

- 10. CALCULATE the maximum inflation level (MIL) by adding 30 mm Hg to the estimated systolic. (This figure will be utilized in Step #14.)
- 11. CHECK THE CLIENT'S POSITION. Legs should be uncrossed, feet resting firmly on the floor and the back supported while blood pressure is being measured. (Clients may need to be reminded to uncross their legs each time you are ready to take a blood pressure reading.)
- 12. INSERT the stethoscope earpieces, angled forward to fit snugly.
- 13. PLACE THE BELL OR THE DIAPHRAGM HEAD of the stethoscope <u>lightly</u> over brachial artery at the bend of the elbow, but with good skin contact. Avoid too much pressure, which can close off the vessel and distort the sounds, therefore altering the reading. (The bell head is preferred because it permits more accurate auscultation of the Korotkoff sounds than the diaphragm, especially in the interpretation of diastolic readings.)

#### WISEWOMAN Clinical Procedures - Measurement of Blood Pressure

- 14. INFLATE the cuff as rapidly as possible to maximum inflation level (MIL), calculated in Step #10 (30 mm Hg above estimated systolic pressure).
- 15. DEFLATE THE CUFF SLOWLY and CONSISTENTLY at the rate of 2 mm per pulse beat. The rate of deflation should be slow enough to accurately evaluate the exact millimeter marking of the Korotkoff sounds. Once deflation has begun, never reinflate.
- 16. NOTE where the first sharp rhythmic sound appears in relation to the gauge's calibrations. This is the systolic pressure.
- 17. CONTINUE DEFLATION at the established rate. NOTE on the gauge where the last sound is heard. This is the diastolic pressure (5th Korotkoff phase) in adults.
- 18. CONTINUE DEFLATION for 10 mm Hg past the last sound. (This assures that the absence of sound is not a "skipped" beat but is the true end of the sound.) Then deflate the cuff rapidly and completely.
- 19. RECORD the readings to the nearest 2mm (round off upward). This means all readings taken with non-electronic equipment will be stated and written in even numbers.
- 20. MAKE NOTATIONS of cuff, arm and position only if there are variations from the standard procedure of seated, regular cuff, right arm and fifth Korotkoff phase.
- 21. Reporting for READINGS where examiner has questions:
  - A. When an auscultatory gap is heard (at least 2 initial beats, then absence of regular beats), do not record the first disappearance of sound as the diastolic reading. The sound will soon return as decompression of the vessel continues. The sound will finally disappear, indicating true diastolic.
  - B. When sounds are too soft to be certain of either systolic or diastolic readings, "discard" this reading. Institute augmentation procedures on the next attempt. Always inflate the cuff to the MIL as rapidly as possible.

#### **AUGMENTATION PROCEDURES**

Have the client raise their arm prior to inflation to drain the blood from forearm. Inflate the cuff rapidly and then have the client lower his/her arm to the standard position. Apply the stethoscope immediately and begin deflation.

or

After inflation, keep the valve closed and have the client clench fist 5-6 times. Then apply the stethoscope immediately and begin deflation.

22. REPEAT the measurement 30 seconds or more after the cuff is completely deflated. This allows for circulation to adequately return and permits a true reading.

NOTE: Mercury manometers are preferred because they are more accurate, easier to maintain and less likely to become decalibrated.

Source: (1) Michigan Department of Public Health and the Michigan Association for Local Public Health. *Promoting Cardiovascular Health in Michigan: Recommendations for Action.* pp 35-37, December 1991; (2) Perloff, Dorothea; Grim, Carlene; et.al..... "Human Blood Pressure Determination by Sphygmomanometry." AHA Medical/Scientific Statement: Special Report. *Circulation.* Vol. 88, No. 5, Part 1, November 1993. pp 2460-2470.



#### **Procedure for Measuring Blood Pressure on Lower Arm**

This procedure should <u>only be used if the upper arm is too large for a large adult cuff and an appropriate size cuff is not available</u>. This procedure is recommended only as a **last attempt** to get the best estimate of the blood pressure (BP) as possible.

The proportion of the bladder in the cuff to the lower arm should still meet the procedural guidelines outlined: the bladder width should be 40% and the bladder length should be 80% of the circumference of the lower arm.

Sometimes the diastolic reading may not be audible over the radial artery but the systolic at minimum could be recorded. Be sure you note that the BP was taken on the lower arm.

# The procedure below is the same as the one used in the upper arm except for the changes noted in italics:

- 1. CHECK THE EQUIPMENT. Do not use if any problems are found.
  - A. Look to see the gauge mercury meniscus or aneroid needle is at zero. (Preferably, do not use an aneroid gauge with a stop-pin.)
  - B. Check the cuff for any breaks in stitching or tears in the fabric.
  - C. Check the rubber tubing for cracks or leaks, especially at connections
  - D. Be sure three sizes of cuffs are accessible (small, regular, and adult large).
  - E. Recommend 12-15 inch stethoscope tubing and bell/diaphragm stethoscope head.
- 2. PLACE THE MANOMETER so it can be viewed straight on and within 15 inches of the viewer.
- 3. RIGHT ARM will be used when possible. *Lower* arm should be bare and unconstricted by clothing. (You should be able to get at least one finger under a rolled up sleeve.)
- 4. SELECT THE APPROPRIATE SIZE CUFF. The bladder width should equal at least 40% of the circumference of the *lower* arm, and the length of the bladder should be 80% of the circumference of the arm, but no more than 100%. *Measure the circumference halfway between the wrist and elbow*.
- 5. PALPATE the location of the *radial* artery.
- 6. POSITION the center of the cuff's bladder over the *radial* artery.
- 7. APPLY THE CUFF evenly and snugly one-inch (2.5 cm) above the *radial artery* at the wrist. CHECK SNUGNESS at both the top and bottom of the cuff.
- 8. POSITION THE ARM so the cuff is at heart level. The *forearm* should *be* supported on a table, slightly abducted and bent, with palm up.
- 9. For the first reading only, OBTAIN ESTIMATED SYSTOLIC PRESSURE.
  - A. Palpitate the radial artery pulse.
  - B. Inflate the cuff to the point where the pulse can no longer be felt.
  - C. Slowly deflate the cuff, noting on the gauge the point where the pulse reappears/can again be felt. This is the estimated systolic pressure.

#### WISEWOMAN Clinical Procedures - Measuring BP on Lower Arm

- Rapidly deflate the cuff. Wait at least 15-30 seconds before re-inflating the cuff to begin the first auscultatory measurement. (This allows good circulation to be reestablished.)
- 10. CALCULATE the maximum inflation level (MIL) by adding 30 mm Hg to the estimated systolic pressure. (This figure will be utilized in step #14)
- 11. CHECK THE CLIENT'S POSITION. Legs should be uncrossed, feet resting firmly on the floor and the back supported while blood pressure is being measured. (Clients may need to be reminded to uncross their legs each time you are ready to take a blood pressure measurement.)
- 12. INSERT the stethoscope earpieces, angled forward to fit snugly.
- 13. PLACE THE BELL OR THE *PEDIATRIC* DIAPHRAGM HEAD of the stethoscope <u>lightly</u> over the *radial* artery, but with good skin contact. Avoid to much pressure, which can close off the vessel and distort the sounds, therefore altering the reading. (The bell head is preferred because it permits more accurate auscultation of the Korotkoff sounds that the diaphragm, especially in the interpretation of diastolic readings.)
- 14. INFLATE the cuff as rapidly as possible to maximum inflation level (MIL), calculated in Step #10 (30 mm Hg above estimated systolic pressure.)
- 15. DEFLATE THE CUFF SLOWLY and CONSISTENTLY at the rate of 2 mm per pulse beat. The rate of deflation should be slow enough to accurately evaluate the exact millimeter marking of the Korotkoff sounds. Once deflation has begun, never reinflate.
- 16. NOTE where the first sharp rhythmic sound appears in relation to the number or markings on the gauge. This is the systolic pressure.
- 17. CONTINUE DEFLATION at the established rate. NOTE on the gauge where the last sound is heard. This is the diastolic pressure (5<sup>th</sup> Korotkoff phase) in adults.
- 18. CONTINUE DEFLATION for 10 mm Hg past the last sound. (This assures that the absence of sound is not a skipped beat but is the true end of the sound.) Then deflate the cuff rapidly and completely.
- 19. RECORD the readings to the nearest 2mm (round to an even number). This means all readings take with non-electronic equipment will be stated and written in even number.
- 20. MAKE NOTATIONS of cuff, arm and position only if there are variations from the standard procedure of seated, regular cuff, right arm and fifth Korotkoff phase. *Be sure to note lower arm used.*
- 21. Reporting for READINGS where examiner has questions:
  - A. When an auscultatory gap is heard (at least 2 initial beats, then absence of regular beats), do not record the first disappearance of sound as the diastolic reading. The sound will soon return as record as decompression of the vessel continues. The sound will finally disappear, indicating true diastolic
  - B. When sounds are too soft to be certain of either systolic or diastolic readings, discard this reading. Institute augmentation procedures on the next attempt. Always inflate the cuff to the MIL as rapidly as possible.

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#### **AUGMENTATION PROCEDURES**

Have the client raise the arm prior to inflation to drain the blood from forearm. Inflate the cuff rapidly and then have the client lower his/her arm to the standard position. Apply the stethoscope immediately and begin deflation.

or

After inflation, keep the valve closed and have the client open and close her/his fist 5-6 times. Then apply the stethoscope immediately and begin deflation.

22. REPEAT the measurement 30 seconds or more after the cuff is completely deflated. This allows for circulation to adequately return and permits a true reading.

Note: Use the same BP classification levels for high and normal cut off points.

Source (1) Michigan Department of Public Health and the Michigan Association for Local Public Health. *Promoting Cardiovascular Health in Michigan: Recommendation for* Action. pp 35-37, December 191; (2) Perloff Dorothea; Grim, Carlene; et.al... AHuman Blood Pressure Determination by Sphygmomanometry. AHA Medical/Scientific Statement: Special Report. *Circulation*. Vol. 88, No.5, Part 1, November 1993. Pp 2460-2470; (3) The Sixth Report of the Joint Committee on Detection, Evaluation and Treatment of High Blood Pressure (NIH Publication No. 98-4080, November, 1997. (4) Consultation with Grim, Clarence and Carlene. December 22, 2000.

g:bplowerarm.12-00

# CHOLESTECH® BLOOD COLLECTION BY FINGER PUNCTURE FOR CHOLESTEROL AND GLUCOSE

**Purpose:** To safely obtain a viable whole blood capillary specimen for processing in the Cholestech LDX System® maintaining the standards required by Occupational Health and Safety Administration (OSHA), Clinical Laboratories Improvement Amendments (CLIA'88), and clinical practices.

CLIA regulations are based on the test complexity, and are classified as waived, moderate complexity, or high complexity. Facilities performing only waived tests have no routine oversight or personnel requirements and are only required to obtain a Certificate of Waiver, pay fees and follow the manufacturer's requirements. Health Departments and other facilities must follow the requirements of the policies of their laboratory director.

#### I. Background and Exposure Control

- a) Facilities providing services that could result in contact with human blood or other potentially infectious material must have an "OSHA-Bloodborne Pathogen Exposure Control Plan" (BPECP) outlining tasks, procedures, assigned job classifications according to exposure risk (Category A or B), engineering controls, universal precautions, and personal protective equipment (PPE) required to decrease the risk of their employees' exposure to any bloodborne pathogen.
- b) Category A employees perform procedures or tasks conducted in routine situations as a condition of employment that could result in exposure to human blood or other infectious material. Employers must offer the Hepatitis B vaccine series, boosters, and antibody testing to Category A employees. If the employee initially declines, the employer must provide the vaccine if an employee changes their mind and is still in Category A.
- c) Category A employees must be provided OSHA-approved lancets\* and specific training as established in the Facility's BPECP on OSHA's standard "Occupation Exposure to Bloodborne Pathogens" before beginning to test and annually thereafter.

#### \*\*OSHA Approved Lancets

Authority: The Department of Consumer and Industry Services: Occupational Health Standards—Bloodborne Infectious Diseases by the authority conferred on the director of the department of consumer and industry services by: [sections 14 and 24 of 1974, PA 154, MCL 408.1014 and 408.1024, and Executive Reorganization Order Nos. 1996-1 and 1996-2, MCL 330.3101 and 4454.2001]

\* <u>Category A.</u> non-managerial, employees, annually, shall have direct input, documented in the "BBECP", into the <u>identification</u>, evaluation, and <u>selection</u> of effective engineering and work practice controls including commercially available and effective safer medical devices designed to eliminate or minimize occupational exposure, including improved technology (self-retracting lancets, needleless systems, etc.)

#### II. Exposure Avoidance

- a) Universal precautions (a method of infection control that treats all human blood and other potentially infectious material as capable of transmitting, HIV, HBV, and other bloodborne pathogens) must be followed.
- b) Place sharps container close to the collection site and place contaminated lancet into the container immediately after use. Dispose of all blood collection materials and cassettes in a biohazard waste container immediately after use following the facility's BPECP. Wear intact gloves at all times during the procedure, in addition to lab coat and other personal protective equipment as indicated.
- d) Any blood spill should be cleaned immediately with a 10% bleach solution or other approved bloodborne pathogen disinfectant.
- e) Materials for each client's specimen should be placed on a clean, non-permeable and absorbent surface such as a small waterproof towel.

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#### III. Machine and Work Area Preparation

Work surface should be clean and sanitary, without direct heat or bright light, and at room temperature (68-86°F)

Set-up machine according to the "Cholestech User Manual®. Page 9, Getting Started". Available online at: <a href="https://www.cholestech.com">www.cholestech.com</a>

#### III. Materials and Equipment:

- a) 10% bleach solution or other disinfectant approved for blood-borne pathogens
- b) 70% isopropyl alcohol or alcohol swab
- c) Cotton balls, or gauze
- d) Blood lancets and/or lancet device for skin punctures
- e) Capillary tubes and Micropipettes
- f) Cholestech® LDX Machine Analyzer, test cassettes, Optics check cassette
- h) Water-proof towels/drapes
- i) Power source
- f) Quality control serum vials (high and low) and recording records
- g) Personal protective equipment
- h) Sharps containers and biohazardous waste containers
- i) Hand gel or sink
- j) Band-aids (Optional)

#### IV. Client Specimen Collection and Testing

- a) Read the procedures in the Cholestech LDX User Manual® and Product Insert 
  Instructions for testing patient samples.
- b) Check signed consent for testing and HIPAA Privacy Statement if applicable. Identify the patient, and explain the procedure to them.
- c) Assess the warmth/circulation of the patient's fingers and choose a site. The third or fourth (middle or ring) finger on the non-dominant hand is preferred for finger sticks. Do not use a finger with calluses and/or a wound. If improvement in circulation is needed, have the patient rub their hands together or hold below the level of their heart for a few minutes.
- d) Choose a site that is on the side of the fingertip midway between the edge and midpoint of the fingertip. (see drawing)
- e) Wash your hands before you put on your gloves. Hand disinfectant gels are acceptable unless the facility policies state otherwise.
- f) Cleanse the client's finger with alcohol from a wipe or cotton ball for 15-30 seconds, rubbing vigorously. Wipe excess alcohol with sterile gauze let dry or it will sting and potentially make the reading inaccurate.
- g) Using a sterile, OSHA-approved\* blood lancet, make a deep enough puncture (1.5mm) to form a free-flowing drop of blood. A deep puncture will avoid needing to re-puncture.
- h) To assure an accurate reading, squeeze the finger from the base moving to the top, *DO NOT MILK* the finger or allow air bubbles to collect in the capillary tube.
- i) Hold the capillary tube horizontally by the end with the plunger. Insert the capillary tube tip in the drop of blood. The tube will fill by capillary action up to the black mark. Perform the filling of the tube within 10 seconds of the puncture to assure a good specimen.
- j) If another drop of blood is needed and the same puncture site is viable, wipe the finger with gauze, and squeeze until a large drip of blood forms. If you can not obtain a large enough drop, choose another site, disinfect and re-puncture. It is not necessary to re-glove at this point if the gloves are intact.
- k) Wipe off any excess blood and ask the patient to apply pressure to the puncture until the bleeding stops. Apply a band-aid to the site to prevent contamination.
- 1) Using the plunger, dispense the entire blood sample from the micropipette, into the cassette as soon as possible.
- m) Once you have placed the sample into the cassette well, place the cassette in the drawer and press RUN

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#### WISEWOMAN Clinical Procedures - Cholestech®

- immediately.
- n) Dispose of lancet and capillary tube into the sharps container and other materials and into a biohazard waste container or as directed by the BPECP.
- o) Remove gloves pulling one over the other, turning the contaminated side inside out.
- p) Give the client the written result and counsel or send to the next station for counseling.
- q) Put on a fresh pair of gloves for the next client.
- r) At the end of the session, clean entire area and wipe down countertops with the 10% bleach solution or other designated disinfectant. Clean machine according to the manufacturer's instruction. Dispose of biohazardous materials container and sharps according to the facility's BPECP.

#### **Analysis of Blood Sample**

Follow manufacturer's instructions. *Cholestech User Manual*®. *Page 15, Testing Procedure*". Available online at: www.cholestech.com

#### **Quality Control**

Quality control practices assure that the system is working properly and giving dependable results. Good laboratory practice principles suggest that in addition to routine testing, (a-c below), external controls must be run if there is any question of the system integrity or operator technique, for example, if reagent storage or handling or when the machine operators have not performed a test in recent weeks.

- a) Controls and Optics Check must be run on every day of testing before the first test is done.
- b) Controls must be run each time a new lot of cassettes is opened.
- c) Controls must be run anytime there is a question about the cassettes being stored properly.
- d) The Cholestech LDX is a waived CLIA test so external proficiency tests are not required in the law; however, they are recommended and may be required by the laboratory director.
- e) See facility policies for all lab related recording forms, corrective action plans, and other facility-specific requirements.

Refer to the Cholestech User Manual®. Page 23, Quality Control, Available online at: www.cholestech.com

#### **References:**

- Cholestech ® Technical Service 1-800-733-0404
   Manufacturer's Website: www.cholestech.com
- Web-based MDCH Laboratory Procedure #RL.04.01
   <a href="http://www.michigan.gov/documents/RL\_135815\_7.04.01\_Specimen\_Collection\_Blood\_by\_Finger\_Puncture.doc">http://www.michigan.gov/documents/RL\_135815\_7.04.01\_Specimen\_Collection\_Blood\_by\_Finger\_Puncture.doc</a>
- OSHA-"Occupation Exposure to Bloodborne Pathogens" (29CFR 1910.1030)
- CMS CLIA Resource: http://www.cms.hhs.gov/clia/
- FDA CLIA Resource: http://www.fda.gov/cdrh/clia/
- HIPAA: http://www.hhs.gov/ocr/hipaa/
- MMWR-Recommendations and Reports Good Laboratory Practices for Waived Testing Sites [11/11/2005/Vol.54/No., RR-13]

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#### WISEWOMAN Program Procedure

MDCH, Cardiovascular Health, Nutrition and Physical Activity Section 7/2007

# **Clinical Laboratory Improvement Amendments of 1988**

#### **General Program Description**

Congress passed the Clinical Laboratory Improvement Amendments (CLIA) in 1988 establishing quality standards for all laboratory testing to ensure the accuracy, reliability and timeliness of patient test results regardless of where the test was performed. A laboratory is defined as any facility which performs laboratory testing on specimens derived from humans for the purpose of providing information for the diagnosis, prevention, treatment of disease, or impairment of, or assessment of health. CLIA is user fee funded; therefore, all costs of administering the program must be covered by the regulated facilities, including certificate and survey costs.

The final CLIA regulations were published on February 28, 1992 and are based on the complexity of the test method; thus, the more complicated the test, the more stringent the requirements. Three categories of tests have been established: waived complexity, moderate complexity and high complexity. CLIA specifies quality standards for proficiency test (PT), patient test management, quality control, personnel qualifications and quality assurance for laboratories performing moderate and/or high complexity tests. Waived laboratories must enroll in CLIA, pay the applicable fee and follow manufacturers' instructions. Because problems in cytology laboratories were the impetus for CLIA, there are also specific cytology requirements.

The Centers for Medicare & Medicaid Services (CMS) is charged with the implementation of CLIA, including laboratory registration, fee collection, surveys, surveyor guidelines and training, enforcement, approvals of PT providers, accrediting organizations and exempt states. The Centers for Disease Control and Prevention (CDC) is responsible for the CLIA studies, convening the Clinical Laboratory Improvement Amendments Committee (CLIAC) and providing scientific and technical support/consultation to DHHS/CMS. The Food and Drug Administration is responsible for test categorization.

To enroll in the CLIA program, laboratories must first register by completing an application, paying fees, being surveyed, if applicable, and becoming certified. CLIA fees are based on the certificate requested by the laboratory (that is, waived, PPM, accreditation, or compliance) and, for moderate and high complexity laboratories, the annual volume and types of testing performed. Waived and PPM laboratories may apply directly for their certificate as they aren't subject to routine inspections. Those laboratories that must be surveyed routinely; i.e., those performing moderate and/or high complexity testing, can choose whether they wish to be surveyed by CMS or by a private accrediting organization. The CMS survey process is outcome oriented and utilizes a quality assurance focus and an educational approach to assess compliance.

#### **CLIA and the WISEWOMAN Program**

The Cholestech LDX System is in the **waived category**. All users of waived tests are required to register with CMS and obtain a **CLIA Certificate of Waiver**. Many local health departments in Michigan are part of the Regional Lab System that the Michigan Department of Community Health oversees. If the cholesterol and glucose screening are to take place at a health department that is part of the Regional Lab System, it is important to confirm that a suitable CLIA certificate has been obtained. If the cholesterol and glucose screening are to take place through an agency other than a local health department, the application for the Certificate of waiver can be obtained through the CMS website, <a href="http://www.cms.hhs.gov/clia/">http://www.cms.hhs.gov/clia/</a>.



### **Procedures for Assessment of Pulse Regularity**

1. Find the pulse by putting your second and third fingers over the radial artery along the thumb side of the wrist. Do not use your thumb to feel the pulse since it has a pulse that that can be picked up easily. Using your thumb will result in you counting your own pulse.

**Note:** Finding the pulse is the same as in the procedure used to get an estimated systolic for blood pressure measurement.

- 2. Feel the pulse rhythm for 30 seconds. Do not press too hard or you can cause it to disappear.
- 3. As you monitor the rhythm, you might find it helpful to tap your foot to the beat or click your tongue to mimic the rhythm. This has been found to help in detecting changes in the rhythm.

| 4. | A regular rhythm would be like this. |
|----|--------------------------------------|
| Ar |                                      |
|    | e pulse for a full minute.           |
|    | Example 1: (Irregular)               |
|    | Example 2: (Irregular)               |

Record if the pulse is regular or irregular on the Screening Form and My Health Information Pamphlet. You do not have to record the rate or beats/minute.

If the pulse is irregular, ask the participant if she has ever been told that it is irregular.

A. <u>Irregular pulse with a prior history of irregularity</u>

If her health care provider has informed the participant that she has an irregular pulse, suggest she continue to have it monitored by him/her.

B. <u>Irregular pulse without prior knowledge or evaluation of it</u>

If the pulse is irregular, and there is no previous history or knowledge of it being irregular, refer the participant to her health care provider. If other symptoms exist or if significant history, the participant should be referred according to WISEWOMAN Program protocols. Keep in mind that this is a screening activity that is identifying an irregular rhythm and need for further evaluation.

**Skipped Beats**: If the client has only 1 skipped beat during the 30 seconds, feel the pulse for another 30 seconds to determine if it is truly an irregular pulse. If the rhythm is judged regular, this is not classified as an irregular pulse.

#### **Background Information: Stroke and Atrial Fibrillation**

If a health care provider diagnoses an irregular pulse as atrial fibrillation, this can increase an individual's risk of stroke 5 to 6 times. This is why it is important pulse regularity be evaluated. Some patients may experience symptoms with an irregular pulse such as fluttering in the chest, shortness of breath, dizziness or a racing feeling in the chest, but many patients have no symptoms. If the participant is receptive and capable of learning how to measure her own pulse, you can teach her how to monitor the regularity of her own pulse. You need to be cautious about this however, since sometimes it can increase anxiety and frustration.