REFERENCE LIST OF CONTRAINDICATIONS

he following contraindications have been explained more thoroughly in the chapters of this text. This is a referral list to review contraindicated bodywork practices by technique and by trimester. The majority of pregnancy-related contraindications have developed to avoid association for client or massage therapist between bodywork and any pregnancy-related problems that may develop soon after massage. In reality, there is little chance that a skilled and respectful massage therapist may cause harm to a woman during pregnancy.

The most standard contraindication to remember is that if a client has an irritable uterus, with a higher risk than normal for preterm labor or miscarriage, then stimulating massage and abdominal work is contraindicated. This is not because there is a great risk for a massage therapist to endanger the mother or baby, but because when a pregnant woman experiences a negative outcome with her pregnancy, women and families often question the cause of the problem. Neither a family member nor a massage therapist wants the massage to be questioned as a potential influence in a miscarriage or bad outcome of a pregnancy. Hence, certain types of bodywork are avoided during these higher risk situations, merely to eliminate one possible source of concern.

CONTRAINDICATIONS FOR SPECIFIC BODYWORK TECHNIQUES DURING PREGNANCY, LABOR, OR POSTPARTUM

Abdominal Massage

- Avoid deep abdominal massage during the first trimester.
- Avoid deep abdominal bodywork throughout pregnancy and for 6 to 8 weeks postcesarean.
- Avoid all abdominal bodywork with known risk of miscarriage, preterm labor, bleeding, or placental or uterine dysfunction.
- Avoid abdominal bodywork if it interferes with accurate external fetal monitoring during labor.

Acupressure

- Until the last 2 weeks of pregnancy, avoid directed, intentional pressure on acupressure points Large Intestine 4 and Spleen 6.
- Avoid stimulating acupressure to Bladder 60, Gall Bladder 21, Bladder 31, and Bladder 32 for clients at risk for preterm labor or miscarriage.

Aromatherapy

- Avoid use of all essential oils without training specific to the perinatal cycle.
- Avoid essential oils, incense, or other scents without first determining if your client responds agreeably to the odor.

Breast Massage

- Know the legality of breast massage in your state or locale.
- Avoid with a risk of miscarriage or preterm labor.
- Avoid with mastitis or other breast infection.
- Avoid the use of essential oils on breastfeeding clients, unless you are trained in their use for postpartum.
- Practice and teach good hand-washing technique before touching the breasts and instruct client to wash oils off breasts before nursing.
- Careful communication and verbal (and in some cases possibly written) consent from the client for breast massage is required.

Electromagnetic Fields: Electric Blankets and Heating Pads

 Avoid the use of electric blankets and heating pads with pregnant clients.

Foot Massage

- Avoid plantar flexion and ensure that the foot is well supported in sidelying position.
- Avoid deep tissue techniques directly on pitting edema.

Leg Massage

- Through pregnancy and until 6 weeks postpartum, avoid tapotement, compression, deep vibration, cross-fiber friction, petrissage, deep effleurage, firm acupressure, or any pressure in the hip adductor region of the leg between the knee and groin.
- Avoid stimulating leg massage with any clients on restricted bedrest due to increased clot risk.
- Avoid all massage over varicosities, and on legs with known phlebitis or blood clot.

Passive Range of Motion

 Avoid hip mobilizations with a separation of the symphysis pubis.

- Avoid overstretching joints that are already hypermobile.
- During postpartum, avoid gluteal work and hip joint mobilization that pulls or strains perineal area with possible lacerations, stitches, or episiotomy repair.

Supine Positioning

Except for short durations, avoid supine positioning after 22 weeks' gestation or when the pregnant belly is visibly obvious. Always avoid it when a client is uncomfortable lying supine.

Thermal Therapies

- Avoid applications of heat for longer than 10 minutes to postpartum engorged breasts.
- Avoid hot or ice applications to areas numbed by epidural during labor.
- Immersions in hot water above 102°F should be limited to less than 10 minutes.

Womb Massage in Postpartum Period

- Avoid womb massage and heat applications, such as vaginal steams or hydroculator packs to the abdomen, with clients with uterine infection, fever, or heavy bleeding.
- Avoid womb massage on women who have an intrauterine device (IUD).
- Use universal precautions (wear gloves) when handling linens soiled with body fluids, particularly bloody discharges.

CONTRAINDICATIONS BASED ON PHYSICAL SYMPTOMS AND CONDITIONS OF PREGNANCY, LABOR, AND POSTPARTUM

Asthma (Maternal)

 Avoid the use of essential oils, scented oils, candles, and other scents that could trigger an asthma attack.

Bedrest

 Communicate with the client's PCP to ascertain risks and concerns of a client on restricted bedrest.

- Type I full-body massage will often be contraindicated, though may be used on local areas of stress and extremities.
- Avoid stimulating leg massage due to increased risk of clots with immobility.
- Abdominal massage will often be totally contraindicated.

Bleeding

- Medical release is indicated for bleeding associated with a high risk condition.
- Avoid abdominal massage and Type I fullbody massage until the PCP indicates that risk has passed.
- For clients who had a postpartum hemorrhage, avoid deep, circulatory-stimulating full-body massage in the first 3 to 4 days postpartum.

Blood Clots

- No work to the legs or region of a known clot.
- Medical release indicated if client has known blood clot.

Eclampsia/HELLP Syndrome

- All Type I bodywork is contraindicated.
- Medical release is indicated.

Edema

· Avoid deep tissue work on pitting edema.

Fetal Genetic Disorders, Intrauterine Growth Restriction, Oligohydramnios

 Abdominal massage may be contraindicated to avoid association of massage with potential problems with the baby. This contraindication will be based on the woman's anxiety level and her desire to receive or avoid abdominal massage.

Hypertension (Chronic)

- A medical release is recommended with severe hypertension, to determine if Type I techniques are contraindicated.
- Avoid abdominal massage with severe hypertension due to risk of placental abruption.

Infertility (Prolonged) or Hormone Treatment

 Abdominal massage and vigorous Type I massage may be contraindicated if the client has a high level of anxiety surrounding the pregnancy.

Miscarriage

- If client has had two or more consecutive miscarriage in previous pregnancies, avoid abdominal massage, and Type I full-body massage, until at least 6 to 8 weeks past the time she had the earlier miscarriages.
- A medical release is recommended with clients with history of three or more consecutive miscarriages.
- Avoid *excessive stimulation* of the sacrum, sacral foramen, and sacral nerves.

Multiple Gestation (Twins or More)

- Avoid stimulating abdominal massage if there has been concern of preterm labor.
- Avoid excessively stimulating Type I work throughout pregnancy.
- Minimize the need for repositioning in the third trimester when mobility may be difficult.
- A medical release is recommended if premature labor has already occurred during this pregnancy.

Nausea

- Avoid rocking or passive range of motion that could increase nausea.
- If nausea begins because the pregnant client was positioned supine, reposition to sidelying.

Polyhydramnios

- No abdominal massage or Type I full-body stimulating work due to increased risk of placental abruption.
- Medical release may be indicated.

Preeclampsia

- If client is restricted in activity or limited to bedrest, obtain medical release and avoid Type I full-body massage.
- If client is restricted to the left-sidelying position only, maintain this during massage.
- If a client is restricted to bed rest after delivery due to high-risk situations, have her obtain a medical release and use only Type II techniques, possibly with Type I to local areas of stress.

Preterm Labor

- No Type I full-body massage.
- No abdominal massage.
- No breast massage.

Previous Premature Birth

- Avoid abdominal massage until 6 to 8 weeks past time of previous premature labor.
- Avoid abdominal massage if client currently has a condition that was associated with the first preterm birth.
- Avoid Type I full-body massage if client is considered at high risk for preterm labor again.
- A medical release may be indicated.

Symphysis Pubis Separation

- Avoid hip range of motion, external rotation, or hip abduction.
- Avoid squatting, or rocking backward from hands and knees position.

Urinary Tract Infection

 Avoid massage to the abdomen until a UTI is fully resolved.

Uterine and Placental Abnormalities (i.e., resolved partial abruption, placenta previa)

- Avoid abdominal massage.
- Avoid Type I full-body stimulating massage.
- A medical release is highly recommended.

Uterine Infection

• Type I bodywork is contraindicated with any uterine infection or fever.

RESOURCES FOR THE PRACTITIONER

ADVANCED TRAININGS IN PERINATAL SUPPORT

Doula and Childbirth Educator Trainings

Association of Labor Assistants and Childbirth Educators (ALACE), PO Box 390436, Cambridge, MA 02139. 888-222-5223. http://www.alace.org/. Doula and childbirth education training.

Birth Works®, Inc., PO Box 2045, Medford, NJ 08055. 888-TO-BIRTH (862-4784). http://www.birthworks.org/. Research resource with links and childbirth educator certification.

Childbirth and Postpartum Professional Association, PO Box 491448, Lawrenceville GA 30049. 888-MY-CAPPA. http://www.cappa.net/. Doula training.

Doulas of North America: DONA International, PO Box 626, Jasper, IN 47547. 888-788-DONA (3662). www.dona. org. Doula trainings.

HypnoBirthing[®], P.O. Box 810, Epsom, NH 03234. 603-789-4781. http://www.hypnobirthing.com. Hypnobirthing Professional Labor Companion Training and Certification.

International Childbirth Education Association (ICEA), PO Box 20048, Minneapolis, MN 55420. 952-854 8660. http://www.icea.org/. Trainings to become doula; perinatal fitness educator; childbirth educator; postnatal educator; excellent charts, books, educational materials.

Lamaze International, 2025 M St. NW, Suite 800, Washington, DC 20036-3309. 800-368-4404. http://www.lamaze.org. Information for new and expectant parents and professionals about birth; childbirth educator training.

Infant Massage

International Loving Touch Foundation, 4133 SE Division Street, Portland, OR 97202. 503-253-8482. http://www.lovingtouch.com. Infant massage training.

International Association of Infant Massage Instructors (IAIM), PO Box 6370, Ventura, CA 93006. 805-644-8524. http://www.iaim.ws/home.html. Infant massage instruction certification program.

Other

Elizabeth Noble, 448 Pleasant Lake Avenue, Harwich, MA 02645-1040 508-432-8040. http://www.elizabethnoble.com/. Training in pregnancy and postpartum exercise and women's health.

Mayan Abdominal Massage: The Arvigo Institute, LLC. 77 West Street, Antrim, NH 03440. 603-588-2571. http://www.arvigomassage.com. Uterine and abdominal massage training.

HIGH-RISK AND GENERAL SUPPORT RESOURCES FOR PREGNANCY AND POSTPARTUM

Global Maternal/Child Health Association/Waterbirth International, PO Box 1400, Wilsonville, OR. 800-641-2229. http://www.waterbirth.org. Education, videos, conferences regarding waterbirths and natural birth

- International Cesarean Awareness Network, P.O. Box 98, Savage, MN 55378. 800-686-4226. http://www.ican-online.org/. Advocacy and support regarding cesareans.
- La Leche League International, PO Box 4079, Schaumburg, IL 60168-4079. www.lalecheleague.org. Breastfeeding support organization, resources, links.
- Postpartum Support International, 927 N. Kellogg Avenue, Santa Barbara, CA 93111. www.postpartum.net. Postpartum depression support, resources, and information.
- Pregnancy Bed Rest: Information and Support for Families and Caregivers. Case Western Reserve University Bolton School of Nursing, 10900 Euclid Avenue, Cleveland, OH 44106. http://fpb.case.edu/Bedrest/.
- Sidelines National High Risk Pregnancy Support Network, PO Box 1808, Laguna Beach, CA 92652. 888-447-4754 (HI-RISK4). http://www.Sidelines.org. Support and information for pregnant women on bedrest.
- Vaginal Birth after Cesarean. Center for Family. 24050 Madison Street, Suite 200, Torrance, CA 90505. 310-375-3141. www.vbac.com. Resources and research regarding vaginal birth after cesarean.

MATERNITY ABDOMINAL SUPPORTS

BellyBra. http://www.bellybra.com

- Loving Comfort Maternity Support Family. Website http://www.maternitysupport.com. Wraps for pregnancy, postpartum, breastfeeding.
- Maternity In Style. http://www.maternitystop.com/sup-portbelts&hose.htmlMaya Wrap. 888 Maya Wrap. 888-629 2972 or 402-614-7340. http://www.mayawrap.com/. To purchase Rebozos.
- Supports 4 Less. http://supports4less.com/brace-type/abdominal-supports/index.htm
- The Rebozo Way Project. PO Box 22506, Santa Barbara, CA 93121. 805-965-4402/877-4REBOZO. http://rebozoway.org. Information about use of the Rebozo.

PREGNANCY INFORMATION RESOURCES

- American College of Obstetricians and Gynecologists. 409 12th St., SW, P.O. Box 96920, Washington, DC 20090-6920. 202-638-5577. http://www.acog.org.
- MedlinePlus-Pregnancy. http://www.nlm.nih.gov/medlineplus/pregnancy.html. National Library of Medicine pregnancy-related information, including childbirth, high-risk pregnancy, and prenatal care.
- Midwifery Today. PO Box 2672, Eugene, OR 97402. 800-743-0974. www.Midwiferytoday.com. Organization supporting homebirth, international midwifery, magazine publication.
- Motherisk. 416-813-6780. http://www.motherisk.org/index.jsp. Evidence-based information about morning sickness and the safety or risk of drugs, herbs, chemicals, and disease during pregnancy and lactation.

- MyMidwife.org. http://www.mymidwife.org. American College of Nurse-Midwives; provides general information about pregnancy.
- National Women's Health Resource Center—Pregnancy. 157 Broad St., Suite 106, Red Bank, NJ 07701. http://www.healthywomen.org/healthtopics/pregnancy. Nonprofit, national clearinghouse for women's health information, including pregnancy.
- Society for Maternal-Fetal Medicine. 409 12th St. SW, Washington, DC 20024. 202-554-1132. http://www.smfm.org. Organization for physicians certified in maternal-fetal medicine, with consumer information about pregnancy, including high-risk pregnancies.
- The Association for Pre- & Perinatal Psychology and Health. PO Box 1398, Forestville, CA 95436. 707-887-2838. http://www.birthpsychology.com/. Annual conference for perinatal psychology.
- Touch Research Institute. http://www6.miami.edu/touch-research. Tiffany Field's touch research on touch with infants, pregnant, and laboring women.

MASSAGE RESOURCES

Massage Supplies: Cushions, Foam, Positioning supports

- Banner Therapy Products. 891 Broadway Street, Asheville, NC 28804. 828-277-1188. http://www.bannertherapy.com. Variety of pregnancy massage support products.
- Body Support Systems, Inc. 1040 Benson Way, Ashland, OR 97520. 800-448-2400/541-488-1172. http://www.bodysupport.com/. bodyCushion for pregnancy positioning on massage table.
- Bruce Medical. 411 Waverly Oaks Road, Suite 154, Waltham, MA 02452. 1-800-225-8446. http://www.brucemedical.com/bedwedfoamsl.html. Foam wedges for positioning (bed wedge).
- Orthopedic Physical Therapy Products. 3800 Annapolis Lane, Suite 165, PO Box 47009, Minneapolis, MN 55447-0009. 800-367-7393. http://optp.com/index.cfm/ pageid/229. Foam wedges for positioning.

Advanced Training in Perinatal Bodywork Therapies

- Active Birth/Janet Balaskas. http://www.activebirthcentre.com/pb/catchoosingcompltherapy.shtml. Active birth education and center for complementary therapies during pregnancy.
- Bodywork for the Childbearing Year/Kate Jordan. http://www.katejordanseminars.com/. Perinatal massage certification course.
- MaMassage/Leslie Stager. http://www.LeslieStager.com. Perinatal massage certification course, educational films and booklets, pregnancy massage oils.
- Maternity Reflexology/Suzanne Enzer. http://www.reflexology-polarity.co.uk/. Trainings specialized in reflexology during pregnancy.

- Mother Massage/Elaine Stillerman. Mothermassage.net. Perinatal massage certification course.
- Pre and Perinatal Massage Therapy/Carole Osborne-Sheets. http://www.bodytherapyassociates.com/PrePeri. php. Perinatal massage certification course.
- Well Mother Shiatsu/Suzanne Yates. www.wellmother.org. Trainings in shiatsu for pregnancy.

RECOMMENDED VIDEO RESOURCES

- Birth As We Know It (DVD). www.birthasweknowit.com. Russian birth film highlighting conscious, natural birthing.
- Birth Into Being (DVD). www.birthintobeing.com. Russian birth film showing water births in the Black Sea and in tubs at home.
- Mastering Pregnancy Massage DVD. www.LeslieStager. com. 3-hour instructional video of pregnancy massage techniques.
- Mothertouch: Nurturing Touch for Birth DVD. www. LeslieStager.com. Educational birth video demonstrating touch techniques during birth.

SUGGESTED READINGS

General Pregnancy and Comfort Measures

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Psychology and Spirituality of Pregnancy

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GLOSSARY

- **Abdominal support binders** Elastic or cloth support for the abdomen that wrap around the belly and support its weight during the later stages of pregnancy.
- **Active labor** The phase of labor in which cervical dilation is from 4 to 8 cm or so and contractions average a rate of every 3 to 5 minutes and last 60 to 90 seconds.
- **Amniotic sac** The membranous bag that holds intact the developing fetus, placenta, and amniotic fluid in utero; also known as the "bag of waters."
- **Back labor** A condition when a laboring mother feels contractions primarily in her back, rather than in her abdomen or pelvis; often caused by a posteriorly positioned baby.
- **Bloody show** A brownish, reddish discharge as the cervix begins to dilate. The blood may have occurred as a result of cervical exams by a PCP.
- Braxton-Hicks contractions Irregular "practice contractions" that are generally mild and do not cause the cervix to dilate. Women in their first pregnancy tend to have fewer Braxton-Hicks contractions than those in subsequent pregnancies. Braxton-Hicks contractions are *not* the same as preterm labor contractions which tend to be more regular and consistent, may sometimes be feel crampy in the low pelvis, and which can cause an early delivery of the baby. If the client has more than 4 contractions in 1 hour and it is unclear what type of contractions they are, she should be referred to her prenatal care provider.
- **Breech** When the baby is positioned in utero with the buttocks in the mother's pelvis and head up toward her ribs. The normal vertex position for birth is with the baby's head down in the mother's pelvis.
- **Broad ligament** Wide and thin uterine ligament that spreads out like a sheet from the lateral aspects of the uterus and sinks into the iliac fossa area in the anterior hip, the walls of the pelvic cavity, and the connective tissue of the pelvic floor. The ovaries and round ligament are suspended within the broad ligament.
- **Cardinal ligament** A band of ligamentous tissue, also known as the *ligamentum transversalis colli*, that supports the cervix and uterus and attaches to the lateral vagina.
- Catecholamines Chemicals produced by the adrenal medulla, such as epinephrine, that act as hormones and neurotransmitters. They stimulate the sympathetic nervous system, cause an increase in heart rate, blood pressure, and respirations, and divert blood away from digestion. They also relax smooth muscle, which, during pregnancy, results in slowing or stalling labor.
- **Cervix** The bottom neck of the uterus that joins with the vagina.
- **Cesarean section** (c-section) The surgical delivery of a baby through a mother's abdomen.

- **Chakra** Sanskrit word referring to a spinning vortex of energy located in specific areas of the body.
- **Chloasma** Darkening of the skin like a mask on the face, caused by estrogen effects during pregnancy; it resolves after pregnancy.
- **Contractions** Rhythmic uterine cramping that helps move the baby down and out and dilates the cervix.
- **Corpuscles** Special tactile receptors found in different layers of the skin and sensitive to specific types of touch, such as continuous pressure, vibration, cold, and deep pressure.
- **Crowning** The point during birth when the widest part of baby's head fills the vagina, expanding the perineum and causing the tissues to stretch.
- **Deep vein thrombosis** Development of a clot in the deep veins, usually in the legs.
- **Diastasis recti** Thinning of the fascial linea alba so that the rectus abdominus muscles separate, reducing anterior support of the torso and often leading to back pain.
- **Diastasis symphysis pubis** Separation of the symphysis pubis due to postural imbalance and/or relaxin's softening effects. This condition can be very painful, especially with hip abduction.
- **Dilate/dilation** The process of cervical opening during labor that allows the baby to enter the vaginal vault. This process of opening is called dilation.
- **Doula** An Ancient Greek term for the handmaidens and birth companions to the upper echelon women, now used to describe professional birth and postpartum supporters. Many studies have been done indicating that doulas, or continuous birth supporters have a powerful and beneficial influence on the process and outcome of birth.
- **Due date** A date when labor is expected to begin. It is determined by adding 40 weeks to the first day of the last menstrual period (LMP), (assuming a woman has a regular 28 day menstrual cycle), or adding 38 weeks to the known day of conception. Alternatively, 3 months can be subtracted from the LMP, and 7 days added onto that. Only 10% of births actually occur on the due date. The due date is often written in medical notes as EDC or expected date of confinement. This is a relic of days when women were kept separated from her family or community during birth. It is also sometimes called the EDD (estimated date of delivery).
- **Early labor** The early part of labor, when the cervix begins to dilate from 0 to 4 cm or so.
- **Eclampsia** Seizures during pregnancy, often following preeclampsia.
- **Efface/effacement** The thinning or shortening of the uterine cervix that occurs before or in the process of labor. The cervix is normally 1.5 to 2 inches long. As it thins, or

shortens, it is measured in percentages. Fifty percent effaced means it is about 1 inch long. The cervix must normally be 100% effaced and fully dilated before pushing begins.

Embolus Blood clot that becomes dislodged from the venous wall and travels through the circulation with the potential of becoming lodged in a vessel in the lungs, brain, or heart, often with devastating consequences. When it obstructs a blood vessel, it is called an *embolus* (plural: emboli).

Endorphins Neurotransmitters that help reduce painful sensations or affect pain perception. They are also related to mood, feelings of euphoria, memory retention, and the release of sex hormones.

Engaged The state in which the widest diameter of the baby's head settles into the mother's pelvis in preparation for or during birth.

Engorgement The swelling of the breast tissue with lymph, blood, and milk during the second to fifth postpartum day in preparation for mature milk production. Until this time, the baby has been drinking the pre-milk or colostrum, which contains primary antibodies that build a baby's immune system. Nursing stimulates the production of milk, and engorgement may follow as the milk "comes in." For some women, engorgement can be very painful.

Epidural anesthesia Anesthesia often used during labor to numb sensations from the waist down. A thin catheter is placed in the epidural space of the spine, and medications are injected which cause the numbing.

Episiotomy Cutting of the perineal tissues to help the baby to be born faster.

Estrogen Normally produced by the ovaries and adrenal cortex, estrogen is produced in early pregnancy first by the corpus luteum and then the placenta. Estrogen has multiple influences in the pregnant body, including softening connective tissue and preparing the endometrium for caring for the fertilized egg, embryo, and fetus. It also increases breast size, vascularity, and the number and size of milk-producing ducts and lobes. It contributes to the development of darker skin on the abdomen and face with the linea negra and chloasma. Estrogen contributes to extra blood flow to the nasal mucosa, causing swelling, stuffiness, and sometimes bloody noses.

Fibrolytic activity This is the clotting mechanism of the blood—the blood clots faster than normal during pregnancy to help prevent excessive blood loss by hemorrhage at birth.

First stage of labor The first of three stages of labor involves dilation and effacement of the cervix from 0 to 10 cm, until pushing. The phases of pre-labor, early, and active labor and transition are all part of the first stage.

Gestational diabetes A type of diabetes, different from the common diabetes mellitus, that only occurs during pregnancy and resolves after delivery. When controlled, it generally does not require the use of insulin but does demand attention to diet to prevent excessive blood sugar level. Excess maternal blood sugar level will cause the baby to grow larger, thereby causing size-related difficulties at delivery.

Gestational hypertension High blood pressure that develops during pregnancy, usually beginning between 20 weeks' gestation and 1 week postpartum.

HELLP syndrome An acronym for Hemolysis, Elevated Liver enzymes, and Low Platelets. An insidious syndrome considered by some to be a variation of advanced preeclampsia. It is characterized by pain in the epigastric area or right upper quadrant of the abdomen, often accompanied by general malaise, nausea, vomiting, headache.¹

High-risk pregnancies Pregnancies in which the woman has conditions that put her more at risk for complications. While these conditions place a woman at a higher *risk* for developing problems, they *are not necessarily a problem in and of themselves*.

Interstitial fluid Fluid located between cells with the functions of bathing and protecting the cells, filtering and removing waste. Lymph fluid originates as interstitial fluid. When excessive interstitial fluid builds up in the tissues, it manifests as edema. This is not uncommon in the hands or feet during the third trimester of pregnancy due to extra blood volume and more sluggish circulation in the extremities.

Intrauterine growth restriction The fetus is small for its estimated gestational age, as indicated by measurements and ultrasound. This condition may indicate it has fetal anomalies or other problems.

Involute To involute, or the process of involution is, in this case, the act of the postpartum uterus contracting back down to a nonpregnant size.

Kegel exercises Exercises that tone the perineal muscles.

Labor Commonly defined as the time when uterine contractions last 60 to 90 seconds, have been occurring consistently every 3 to 5 minutes for at least a couple hours, and are causing cervical changes.

Lightening In the late third trimester, the baby will usually "drop" down into the pelvis, engaging more fully into position for labor. The mother will feel relief of pressure in her diaphragm, be able to breathe more easily, and will suddenly have more pressure on her bladder. This shift of the baby's position is normally very obvious, as a mother's posture and appearance visibly change.

Linea alba Fascial line where abdominal muscles insert in centerline of abdomen.

Linea negra Skin in the area of the linea alba that darkens in pregnancy.

Mastitis Inflammation of the breast, often caused by a blocked milk duct or bacteria entering the breast through cracked nipples. Symptoms usually involve heat, hardness, and red streaking from the site of infection or inflammation, and maternal fever. Heat, massage, and frequent nursing will help to heal mastitis, along with antibiotics when needed.

Meconium The baby's first bowel movement, which is usually green or black and tarry.

Medical release A form signed by client's PCP which indicates approval for massage during the pregnancy, based on an obstetrical point of view. It can indicate restrictions or concerns applicable to bodywork according to the type of risk factors or complications the client has.

Milk ejection reflex Response to prolactin release from the pituitary gland when the baby nurses on the breast. The prolactin stimulates the release of oxytocin. Oxytocin, which causes the uterus to contract, also triggers the milk glands to contract, squeezing milk through the ducts to the nipple, to the baby. The sensation when the hormones trigger this response is often described by women as tingling, filling, and sensual, and often the breasts will begin to leak when the milk "lets down." Often this occurs in response to baby crying, or close to regular feeding times.

Miscarriage Birth before week 20 of gestation. The vast majority of miscarriages occur in the first trimester as a healthy response to the early abnormal development of an embryo. However, other known associations with miscarriage include maternal issues, such as problems with the cervix or uterus or conditions such as diabetes, infection, or virus. Miscarriage is also associated with maternal drug use, including tobacco and alcohol use.

Mucous plug Thick mucous in the cervical opening that prevents the intrusion of bacteria into the uterus. It is discharged during labor.

Oligohydramnios Condition in which too little amniotic fluid is produced. It is associated with placental dysfunctions, fetal anomalies, or fetal death.

Orthostatic hypotension Due to extra blood and fluctuations in blood pressure, some women will experience a sudden drop in blood pressure when shifting from lying down to standing or sitting, resulting in sudden dizziness, nausea, blurred vision, headache, or fatigue.

Oxytocin Hormone released from the posterior pituitary gland that causes the uterus to rhythmically contract during labor and stimulates the "let down" reflex during lactation

Pelvic floor The group of muscles located between and below the lower bones of the pelvis, also called the *perineum* or *perineal muscles*. These provide vital support for all the internal organs. When weak, multiple pelvic floor dysfunctions develop, including urinary incontinence and uterine, rectal, and bladder prolapse.

Pitocin A synthetic oxytocin used to stimulate or augment contractions during labor, as well as used in the immediate postpartum period to decrease the risk of postpartum hemorrhage.

Pitting edema Tissue swelling in which an indentation is left for more than a brief moment after pressing a finger pad into the tissue for 5 seconds and then lifting the finger up. It can vary from mild to extreme and may indicate potential problems, such as preeclampsia.

Placenta previa In this condition, the placenta has implanted itself partially or completely over the opening of the cervix, increasing risks for bleeding and preventing vaginal delivery.

Placental abruption A condition of pregnancy where the placenta begins to separate from the wall of the uterus before the delivery of the baby. It may separate only partially, or there may be a complete abruption, where the placenta detaches entirely. It occurs in an average of 1 out of 150 to 200 pregnancies.

Polyhydramnios A condition in which excessive amniotic fluid is produced in the uterus. It is associated with maternal shortness of breath, diabetes, preterm labor, and fetal anomalies. With the increased fluid, there is an increased intrauterine pressure and impaired perfusion of blood between the uterus and placenta.

Posterior position The position in which the baby in utero is head down, with the occiput toward the mother's sacrum, and the face looking toward the mother's abdomen.

Postpartum "blues" Normal fluctuation of mood and emotions in the first few days after birth, and peaking around postpartum day 5. Symptoms may involve labile moods, teariness, fatigue, difficulty sleeping, and irritability. Typically resolves within 2 weeks.

Postpartum period Also known as *puerperium*, this is the period of time after the birth of a child until anywhere from 6 weeks to 1 year later. Minimally, it is considered the period of time until the uterus involutes as much as possible to its prepregnant state. But many new mothers find themselves in a period of emotional, physical, and psychological adjustments for at least 1 year after birth, that can still be considered the *postpartum period*.

Preeclampsia A condition of pregnancy and postpartum, characterized by changes to the organ systems, blood chemistry, and by a rise in blood pressure. It has the potential to lead to the dangerous complications of eclampsia or convulsions. Some of the common symptoms a woman might experience include headache, visual changes, epigastric pain, and pitting edema. Blood pressures causing alarm may range from slightly high (140/90 to 150/100 mm Hg) to moderately high (150/90 to 180/110 mm Hg)

Pre-labor The earliest start of labor. Also called *prodromal* or *latent* labor. The mother may be having contractions, but they are gentle and having little effect on dilating her cervix.

Premature birth A birth that occurs between gestational weeks 20 and 37.

Preterm labor Also known as premature labor, onset of contractions with changes to the cervix (dilation, shortening, and effacing) before 37 weeks' gestation and with risk of the baby being born early. Preterm contractions do not always lead to preterm *labor*. Also known as *premature labor*.

Preterm labor contractions Uterine contractions that begin after 20 weeks' and before 37 weeks gestation and promote birth before fetal development is completed. They may be felt as mild aching in the pubic area or low back, pelvic pressure, or as intermittent abdominal pains. Alternatively, they may not be noticed at all by the mother. They may be accompanied with diarrhea or watery or bloody vaginal discharge. Contractions are usually at least 4 per hour, and may grow in frequency or strength. To positively diagnose the situation as preterm labor, the client would need a cervical exam to determine if she had dilated. A uterine monitor would also be used to validate the presence of contractions. Treatment is often bedrest, hydration, and/or the use of medications to stop contractions.

Progesterone A hormone produced by the corpus luteum during the first 2 to 3 months of embryonic development until the placenta is formed and functioning, at which point the placenta takes over. Progesterone thickens the uterine lining and prepares it for implantation, then relaxes smooth muscles to prevent uterine contractility.

Prolactin Hormone released by anterior pituitary gland which stimulates milk production and may increase general immune function.

Prolapse The sagging or dropping of the bladder or uterus. The level of prolapse can range from partial, where the organ is just slightly lower in the pelvis than normal, or complete, where the organ is suspended mostly outside of the vagina between the thighs.

Pulmonary embolism Occurrence of a blood clot traveling through the circulation and becoming lodged in an artery of the lung. Symptoms include shortness of breath and chest pain, and can lead to death.

Quickening First fetal felt movements by mother.

Relaxin Hormone produced by the ovaries beginning in week 10 of pregnancy that relaxes and loosens connective tissues and ligaments, including the cervix and the pelvic joints, to create more space for the baby's birth.

Ring of fire Sensations of burning or tearing of the perineum as it stretches and as the baby's head is crowning and being born.

Round ligament An anterior cord-like uterine ligament held within the broad ligament and connecting to the pubic mons, the inguinal area of the pelvis, and the labia of the vagina.

Sciatica Pain caused by compression of the sciatic nerve. The majority of "sciatica" during pregnancy is rarely true nerve compression, but more often a referred pain from psoas tightness and uterine broad ligament pain. However, the sensations of sharp shooting pain, vague numbness, or dull aching discomfort down the back, front, or sides of the leg or in the buttocks feel similar to sciatica. SI joint hypermobility can also lead to radiating pain in the gluteals and leg.

Second stage of labor The second of three stages of labor, this stage involves pushing the baby out after complete dilation of the cervix.

Spider angioma Also called telangiectasias, sunburst varicosities, or spider veins. These are thin, tiny blood vessels visible near the surface of the skin. They may have a dark or red dot in the center and wavy tiny vessels radiating out from it, or they may be linear, especially around the inner knee. These are not the same as the troublesome varicose veins, which are

larger, darker, and are a contraindicated condition for massage.

Striae gravidarum Commonly called stretch marks, these are lines on the skin which develop on the abdomen during pregnancy and seem to be caused by changes in the collagen deposits and rapid stretching of the abdomen. There is no known effective and reasonable treatment for the reduction of stretch marks once they have developed, although two creams were studied that were associated with a decrease in of the development of stretch marks.² Stretch marks will often become less noticeable or change to a silvery color, within a year postpartum.

Superficial thrombophlebitis Development of clots in the superficial veins of the extremities, most often the calf. Emboli do occur originating in the superficial veins, but are more common from the deeper veins.

Third stage of labor The third of three stages, this stage involves the delivery of the placenta.

Transition The final stage of cervical dilation from 8 to 10 cm

Transverse lie The position in which the baby in utero is sideways to the pelvic opening.

Trimester One of three 13-week periods into which pregnancy is divided as a way of measuring dates and changes.

Tubal ligation Surgical birth control method in which the fallopian tubes are cut or tied or otherwise blocked off to prevent future pregnancies.

Urinary tract infection (UTI) A common infection during pregnancy. It increases the risks of preterm labor, kidney infection, and premature rupture of the membranes.

Uterine fundus The top part of the uterus.

Uterosacral ligament A uterine ligament that attaches from the posterior uterus to the anterior sacrum and pelvic cavity.

Vertex Fetal position with the baby's head down in the mother's pelvis, and the buttocks up toward her ribs. This is the most common and optimal position for a baby to be in for a vaginal birth.

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INDEX

Page numbers followed by "f" indicate figures; those followed by "t" indicate tables.

A		
Abdominal bodywork, 58–59, 85. See also	precautions and contraindications to, 62, 246	mid and lower, 219–223
Belly rubs after cesarean section, 240	Artificial insemination, 13	upper, 219 potential problems indicated by, 55
in first trimester, 58, 105	Arvigo, Rosita, 85, 118	Back release
during labor, 160	Assessment of client	acupressure for, 99f
postpartum, 212–216	addressing client health information with	postpartum, 208–209
precautions and contraindications to,	sensitivity, 54	Bed rest, 77
54–57, 245 in accord trimector 58, 60	health history intake form for, 52, 53f	bodywork precautions for client restricted
in second trimester, 58, 60 Abdominal effleurage warm-up, 214	for postpartum bodywork, 209–210 questions for, 53–54	to, 77, 246–247 health intake for client on, 77–78
Abdominal energizing, 213–214	symptoms of discomfort, 54–57	for preterm labor, 75
Abdominal muscles, 32, 35, 41–44	trimester considerations for, 86t	stress relief for client restricted to, 78
cloth support for, 42	Assisted psoas stretch, 111, 112f	Belly breathing, 18, 94
diastasis recti of, 32, 39, 41–44, 42f, 45f, 257	Asthma, 68, 246	Belly lifts, 190, 190f
postpartum, 199 Abdominal myofascial release, 215, 216f	В	Belly palming, 230
Abdominal scar tissue, 241–243	Baby in utero	Belly rubs, 102–105 for back pain due to posterior baby,
assessment of, 242	descent and position of, 5, 153–154, 154f	188–189
benefits of massage for, 241	development of, 14–23	benefits of, 102
cross-fiber friction for, 243	effects of massage on, 1	choosing position for, 104
initial work for, 242	effects of maternal stress on, 6	for contractions, 170, 170f
sliding, rolling, stretching, and lifting of, 242, 242f–243f	identifying position of, 189 postural effects of size and position of, 33	duration of, 102
when to begin massage for, 241–242	turning with acupressure, 191	oils for, 136, 170 in preparation for birth, 134, 136
Abdominal support binders, 33, 33f, 38, 257	Back labor, 153, 189–193, 257	in semi-reclining position, 104–105, 105f
Abdominal tenderness, 56	ankle squeeze for, 192, 192f	in sidelying position, 102-103, 102f-103f,
Abdominal trigger point and tension release,	belly lifts for, 190, 190f	104
214 Abdominal/perineal connection, 211	due to posterior baby, 187–189, 188f belly rubs for, 188–189	Bicycle riding, supine, 224 Birth, 177–178
Acupressure, 9, 10, 52, 60–62, 61f, 84	general treatment for, 187–188	creating satisfying experience of, 2, 146
in ankle region, 63, 63f	hot and cold therapy for, 188, 189f	environment for, 145, 146, 157
for back release, 99f	positions for massage in client with,	fear of, 146, 148
for breech baby, 118	187–188	massage for (See Labor/birth massage)
to increase pain threshold in labor, 146 during labor, 137, 149, 163, 165	general treatment of, 189–190 hip pull for, 193, 193f	nurturing support for, 146, 146t respecting role of client's partner during,
for lactation, 232f	hot or cold therapy for, 191	157, 158
on Large Intestine 4, 193	sacral foramen stimulation for, 191–192	role of massage therapist during, 144-145,
precautions and contraindications to,	sacroiliac relief for, 192f, 192–193	155–159
60–62, 61f, 245	techniques for, 190	Birth ball, 174
in preparation for birth, 132, 134, 137 prohibited acupoints, 60–62, 61f, 99–100	Back massage, 6, 97, 98f Back pain, 6, 7, 18, 19, 29, 32, 38, 46, 107–114	Birth preparation, 132–140. See also Labor acupressure for, 132, 134
turning a baby with, 191	epidural, 238, 241	adductor resistance for, 135
Acupuncture, 60	low, 107–111, 113	belly rub for, 134, 136
Adductor resistance, 135	assisted psoas stretch for, 111, 112f	case study of, 134
Adhesion formation, postsurgical, 238, 241	causes of, 108	cupping for, 135–136
Adrenaline, 146 Aerobic exercise, 229	diastasis recti and, 41, 108 duration of, 107	emotional space for, 139–140 full-body relaxation massage for, 133, 134
Affirmations, 132, 133, 134, 149, 158, 161–162	full body stretch for, 110–111, 111f	jaw release for, 133, 135, 135f
Alcohol use, xi, 68	general treatment of, 108	sacral releases for, 135, 137f
Ambivalence about pregnancy, 15, 18	postpartum, 199	squatting practice for, 136f
American College of Obstetrics and	quadratus lumborum compression	visualizations and affirmations for, 132,
Gynecology, 49 Amniotic fluid, 154–155	points for, 108–110, 109f quadratus lumborum extension for, 110,	133, 134, 149 Birth-related surgeries, 235–244
Amniotic sac, 154	111f	bodywork after, 239–243
rupture during massage, 156	quadratus lumborum release for, 110,	for abdominal scar tissue, 241-243,
Anemia, 19	110f	242f-243f
Ankle massage, 63, 63f Ankle squeeze, for back labor, 192, 192f	risk factors for, 107–108	for depleted energy, 241 for epidural back pain, 241
Ankle swelling, 19, 23, 24	sacral rub for, 111 self-care tips for mothers to decrease,	health intake for, 239–240
Anticoagulants, 65	113, 113f	medical release for, 239–240
Anxiety, 6, 7, 15. See also Fear	mid and upper, 111-115	postcesarean section treatment, 240-241
during labor, 181–183, 182f	causes of, 112	precautions and contraindications to, 240
Arm exercise, dynamic, 230	chest opening for, 114	cesarean section, 235–238
Arm massage, 98–100 Arm mobilization, 219	general treatment of, 112 pectoralis stretch and resistance for, 114f,	common complaints after, 241–243 postpartum tubal ligation, 238–239
Arm raise, 129	114–115	recovery from, 239
Arm stretch, 78	postural awareness and, 114	Bladder infection, 23, 24, 27–29
Aromatherapy, 62, 83, 131, 136	subscapularis stretch for, 115, 115f	Blankets, electric, 64, 246
postpartum, 204	postpartum, 107, 219–223	Blastocyst, 14

Bleeding, 247	Carpal tunnel syndrome, 98	Corpuscles, 147, 257
postpartum, 198, 205 Blood clots, ix, 27, 50, 56, 62, 68–70, 69f, 258,	Catecholamines, 146, 152, 257 Cervix, 257	Cradle rock, 224–225, 226f Craniosacral therapy, 52, 153
247	dilation of, 149, 153, 167–168, 257	Creative power, 5–6, 8
assessment for, 69-70	effacement of, 153, 167, 257-258	Crowning, 176, 257
case studies of, 65, 76	Cesarean section, x, 235–238, 257, 236	Culture. See Traditional birth practices
after cesarean section, 237 incidence of, 69	benefits of massage after, 236 fetal reasons for, 237	Cupping, 135–136
nonsymptomatic, 62	general treatment after, 240–241	D
postpartum, 204–205	immediate postsurgical complications of,	"Dai," 4
risk factors for, 64, 69	237–238	Deep tissue massage, 51
Blood pressure, 27. See also Hypertension;	maternal reasons for, 236	Deep vein thrombosis, 27, 28f, 50, 64, 68–70,
Hypotension Blood type, 18	procedure for, 237 Chakra massage, 183, 257	69f, 84257. <i>See also</i> Blood clots after cesarean section, 237
Blood volume, 26, 27, 28	Chest isometrics, 230	postpartum, 204–205
Bloody show, 154, 257	Chest opening, 78, 97, 98f, 114	Depression, 7
"Blues," postpartum, 225–227, 259	yoga chest opener, 129, 129f	postpartum, 225
Body fluids, 83, 156, 205–206 Body image, 7–8	Chloasma, 24, 29, 257 Circular massage, 182–183	Diabetes, gestational, 72–73, 258 Diastasis recti, 32, 39, 41–44, 42f, 46, 257
Body mechanics, 83, 84	Circulatory massage to legs, 122	assessment for, 43–44, 45f
Body memories, 9	"Closing the bones," 224, 225f	postpartum, 209
Body temperature, 24, 29	Cold application	bodywork considerations for, 43
Body-awareness, 7 bodyCushion, 90	after cesarean section, 240 during labor, 162–163	case study of, 44 low back pain due to, 41, 108
Bony pressure, 83	for back pain due to posterior baby, 188,	occurrence and symptoms of, 43
Brachial plexus syndrome, 32	189f	postpartum management of, 199
Braxton-Ĥicks contractions, 19, 21, 24, 56,	for general back pain, 191	risk factors for, 42–43
154, 257 Breast draps, 84	Comfort of client 20, 20	Diastasis symphysis pubis, 25, 205, 248, 257
Breast drape, 84 Breast massage, x, 2, 62, 115–116, 116f–117f	Comfort of client, 29, 30 in sidelying position, 89–91	Dilation of cervix, 149, 153, 167–168, 257 Doctors, education for, 9
after nursing, 231	Common complaints after birth-related	Doula, 4, 6, 145, 146, 158, 257
postpartum, 228	surgeries, 241–243	Draping, 88–89
precautions and contraindications to, 62,	abdominal scar tissue, 241–243, 242f–243f	of back, 89, 89f
115–116, 246 self-massage, 227, 232	depleted energy, 241 epidural back pain, 241	of breasts, 84 to expose gluteals and superior leg, 89, 90
Breast tenderness, 115–117	Common complaints during labor, 181–194	to expose inferior leg, 89
breast massage for, 115-116, 116f-117f	anxiety/fear, 181–183, 182f	in sidelying position, 88–89
cause of, 114	back pain due to posterior baby, 187–189,	Drawing energy down, 182
general treatment of, 114 lymph pump for, 116–117, 117f	188f exhaustion, 183–184	Dreams, 18, 19 Drug use, 68
postpartum, 231	general back pain, 189–193, 190f–193f	Due date, 14, 152–153, 257
Breastfeeding, 7, 227–231	general labor pain, 194	pregnancy past, 21, 23, 24t, 132
Breasts	stalled or slow labor, 184–186	labor induction for, 132, 137
compression in prone position, 93	Common complaints during pregnancy, 107–131	massage and, 137
engorgement of, x, 227, 231, 258 estrogen effects on, 24	assessment of, 54–57	E
inflammation of, 258	breast tenderness, 115–117	Eclampsia, 76–77, 247, 257
mastitis, 206, 227, 258	breech baby, 117–118	Edema, 118–119
postpartum concerns related to, 227–231	edema, 118–119	ankle/foot, 19, 23, 24, 118
Breath attunement, 83 Breath expansion, 226–227, 228f	groin pain and round ligament pain, 119–121	edema reduction technique for, 119, 119f
Breathing, 25–26, 82	leg cramps, 121–123	general treatment of, 118
abdominal, 161	low back pain, 107–111, 113	hand, 24, 98–99, 118
alternate nostril, 229, 229f	mid and upper back pain, 111–115	myotascial hip opening for, 119, 120t
belly, 18, 94 cleansing breaths, 161	sciatica and sacroiliac pain, 123–127 shortness of breath, 127–130	nonpitting, 118 pitting, 54, 65, 66f, 259, 118
conscious, 78, 93–94, 229	Common complaints in postpartum period,	postpartum, 212, 213
deep abdominal, 78	210–231	third-trimester, essential oils for, 121
into the earth, 229	breast engorgement and tenderness, 231	tips for mothers for circulation
ineffective patterns of, 161 intentional, for anxiety, 183	edema, 212, 213 fatigue, 223–225, 225f, 226f	improvement and reduction of, 120 Education
intuitive patterns of, 161	general breast concerns, 227–231	for doctors, 9
during labor, 158, 160–161	low and mid back pain, 219-223, 221f-223f	for massage therapists, 9
light breath, 94	nursing neck, 217–219, 218f	for mothers, 9
during massage, 93–94 observation of, 161	pelvic misalignment and sacral-iliac pain, 210–212, 212f	Efface/effacement, 153, 168, 257–258 Effleurage, 62, 63
self-care tips for, 229, 229f	postpartum "blues," 225–227	Egg, 13–14
shortness of breath, 19, 26, 32, 127–130	upper back pain, 219, 220f	Ejaculation, 13
sipping breaths, 161	uterine and abdominal concerns, 212–217,	Electric blankets, 64, 246
stretches to increase respiratory capacity, 129, 129f	213f, 215f, 216f Compression and cross-fiber friction, for	Electromagnetic field exposure, 64, 246 Embolus, 69, 258
Ujjayi victorious, 161	groin pain, 120–121, 121f	postpartum, 204–205
visualization and, 94	Conception, 13–14	pulmonary, 62, 69, 260
whale, 161	Constipation, 19, 23, 24, 26, 108	Emotional changes, postpartum, 199
Breech baby, 117–118, 153, 154f, 257	Contraction relayation 162	"blues," 225–227
Broad ligament, 37f, 38 spasm of, 38	Contraction–relaxation, 162 Contraction–relaxation visualization, 230–231	Emotional grounding, 181–182 Emotional space, 139–140
Bulbospongiosus muscle, 38, 40f	Contractions. See Uterine contractions	Emotional wellbeing, 7
_	Contraindications to massage.	Endocrine organs, 23
Cardinal ligament 38 257	See Precautions and contraindications	Endopelvic fascia, 37
Cardinal ligament, 38, 257 Cardiovascular system during pregnancy, 27	Cooper's ligaments, 116 Corpus luteum, 14, 18, 23	Endorphins, 147, 152, 179, 258 Energizing the abdomen, 213–214
- Joseph Grand Pregnancy, 27	r,,,	

251

Energy, 7	Gate control theory of pain, 147	Home birth, 144, 176
drawing energy down, 182	Genetic disorders, fetal, 72, 247	Hormones
exhaustion during labor, 183–184	Gestational diabetes, 72–73, 258	changes during pregnancy, 23–25
relaxing and renewing energy, 183-184	Gestational hypertension, 75, 205, 258	contractions induced by, 152
stimulating energy, 184	Glossary, 257–260	to increase fertility, 72
postpartum, 198, 199	Gluteal muscles, 32	low back pain and, 108
postsurgical depletion of, 241	massage of lateral hip rotators and, 97–98,	poor posture and, 32–33
Energy work, 52	100f	Hot tub, 65–66
Engaged, 153, 258	Goddess Khamakya, 5, 5f	Hydration
Engelmann, George, 6	Groin pain, 55, 119–121	during labor, 185
Engorgement of breasts, x, 227, 231, 258	cause of, 120	after massage, 10, 29, 83
Environment for massage, 83–84	compression and cross-fiber friction for,	Hydrotherapy
Epidural anesthesia, 160, 258	120–121, 121f	after cesarean section, 240
Epidural back pain, 238, 241	general treatment of, 120	during labor, 162–163, 163f
Episiotomy, 176, 258	lifting effleurage for, 120	for postpartum renewal, 217
Erector spinae muscles, 32, 97	tips for mothers for relief of, 122	Hypertension
Erector spinae/bladder meridian acupressure	Grounding	chronic, 68, 247
points, 99f	emotional, 181–182	gestational, 75, 205, 258
Estimated date of delivery, 14, 257. See also	the feet, 182, 182f	Hypotension, orthostatic, 27, 29, 30, 130, 259
Due date	,	, [,,,,,, -
Estrogen, 13, 14, 18, 23, 24–25, 258	H	1
Excretory system during pregnancy, 27–29	Hamstring muscles, 32	Iliacus muscle, 32
Exercise(s), 35, 46	Hand edema, 24, 98–99, 118	Iliopsoas muscle, 32, 45
aerobics and walking, 229	Hand massage, 98–100	Iliotibial band compression, 101, 101f
chest isometrics, 230	during labor, 165–166, 166f	Immunity, 7
for client restricted to bed rest, 78	for slow labor, 185	Implantation, 14
dynamic arm exercise, 230	Hand pressure, for anxiety, 182, 182f	Indigestion, 15, 19
isometric stretches, 64–65		Infection
	Hand stretches, 78 Head and peck relayation techniques, 95–97	bladder, 23, 24, 27–29
Kegel, 40–41, 42, 78	Head and neck relaxation techniques, 95–97, 96f, 97f	as indication for cesarean section, 236
for postpartum strengthening, 224 Exhaustion during labor, 183–184		kidney, 28, 29, 108
	Headaches, 32, 54, 55	
relaxing and renewing energy for, 183–184	Health factors that increase risk during	urinary tract, 27–29, 73, 248, 260
stimulating energy for, 184	pregnancy, 67–78, 246–248	uterine, 206, 247 Infertility, 72, 247
Expected date of confinement, 152–153. See also Due date	client restricted to bed rest, 77–78, 246–247	
uiso Due date	conditions requiring special precautions, 67–71	Interstitial fluid, 27, 258
F		Intimacy during pregnancy, 8
F. Fallonian taken 12	high-risk complications, 71–77	Intrauterine growth restriction, 72, 247, 258
Fallopian tubes, 13	Health intake, 52, 53f, 84, 239–240	Intrauterine pressure, 93
Fanning trochanter attachments, 97, 100f	after birth-related surgery, 239–240	Involute/involution of uterus, 198, 258
Fans, 83	for client on bed rest, 77–78	Isometric stretches, 64–65
Fatigue, 15, 18, 38, 84	for postpartum massage, 203	
during labor, 183–184	Heart murmurs, 27	Ţ
postpartum, 223–225	Heartburn, 19, 24, 26–27, 83	Japanese pregnancy massage, 6
Fear. See also Anxiety	Heat application, 66–67	Jaw release, 133, 135, 135f
of childbirth, 146, 148	after cesarean section, 240	for slow labor, 186
during labor, 181–183, 182f	contraindications to, 246	Jin Shin Jytsu, 52
of miscarriage, 8, 9, 71	during labor, 162–163	Joint instability, postpartum, 205
Femur traction and mobility, 127, 127f	for back pain due to posterior baby, 188,	
Fetal development, 14–23	189f	K
in first trimester, 14–15, 15f, 16t–17t	for general back pain, 191	Kegel exercises, 40–41, 42, 258
past the due date, 21, 23, 23t	Heating pads, 64, 246	benefits of, 40
in second trimester, 17–18, 19f–20t	HELLP syndrome, 75–76, 247, 258	for client restricted to bed rest, 78
in third trimester, 19–21, 21f, 22t	Hemorrhage, postpartum, 205	instructions for, 41
Fetal distress, 237	High-risk complications of pregnancy, 71–77	perineal massage and, 139
Fetal ejection reflex, 176	eclampsia, 76–77	in postpartum period, 197, 198
Fetal genetic disorders, 72, 247	gestational hypertension, preeclampsia,	Kidney infection, 28, 29, 108
Fibrolytic activity, 27, 258	and HELLP syndrome, 75–76	Kidneys, 27–29
Field, Tiffany, 6	as indication for medical release, 71	
Fifth or subsequent pregnancy, 72	placenta previa, 73–74, 74f	L .
First trimester	placental abruption, 73	Labor, ix, 132, 143–150, 258. See also Birth;
bodywork during, 10, 16t–17t, 84, 85, 86t	polyhydramnios, 74–75	Birth preparation
abdominal massage, 58, 105	preterm labor, 75	active, 153, 155, 171–174, 178, 257
fetal development during, 14–15, 15f,	High-risk pregnancy, 49, 50, 51, 258	acupressure during, 163, 165
16t-17t	medical release for bodywork in, 57-58	affirmations and visualizations during,
maternal sensations during, 15, 16t-17t	Hip adductors, 32	157, 158, 161–162
miscarriage in, 14–15, 58, 70,	adductor resistance technique, 135	back, 153, 189–193, 257
84, 85, 105	massage to inner thigh and, 62, 64, 64f	beginning of, 153
precautions for mother during, 14	Hip flexors, 32	breathing during, 158, 160–161
Foot circles, 78	Hip pull, for back labor, 193, 193f	common complaints during, 181–194
Foot massage, 63, 65, 101–102	Hip rotators, 32	descent and position of baby during,
during labor, 163, 164f, 165	hamstring and lateral hip rotator releases,	153–154
precautions and contraindications to, 65,	124	early, 155, 169–171, 257
66f, 246	lateral hip rotator anchor and stretch, 222f,	effects of stress on, 145-146
for slow labor, 185	222–223	facilitating relaxation during, 1–2, 7,
Foot swelling, 118	lateral hip rotator attachments for sciatica,	132–133, 159
Full body stretch, 110–111, 111f	125	failure to progress, 236
,,	massage of lateral hip rotators and	first stage of, 155, 258, 167–176
G	gluteals, 97–98, 100f	hydrotherapy during, 162–163, 163f
Gait assessment, 34	Hip soreness	impending, signs of, 154
Gas cramping, after cesarean section, 238	positioning client with, 94	induction of, 132, 137
Gastrointestinal system during pregnancy,	related to sidelying, 89	latent, 168
26–27	Homan's sign, 69–70	length of, 153, 155
		0

Labor (continued)	Ligamentum transversalis colli, 38	two important reminders for labor, 185
lull in, 175–176	Light breath, 94	words in various languages for, 5, 5t
overview of, 152–155	Lightening, 19, 21f, 128, 153, 258	Mucous plug, 154, 259
pain of, 147–148, 194	Linea alba, 24, 41, 258	Multifidus muscle, 32
back pain due to posterior baby, 187–189, 188f, 189f	Linea negra, 24, 258 Lomi lomi, 51	Multiple gestation, 14, 70, 70f, 247, 237 Muscle tension, 33
gate control theory of, 147	Lull, 175–176	Muscle tension, 33
general back pain, 189–193, 190f–193f	Lumbar lordosis, 32, 47, 93	Musculoskeletal pain reduction, 6, 7
management of, 155–156	Lymph pump, 116–117, 117f	Musculoskeletal system. See also specific
phases of, 155	M	muscles
positions for, 171–174, 172t, 173f–174f, 185 pre-labor, 155, 168–169, 259	M Massage therapist	assessing symptoms of discomfort related to, 54–56
preterm, 75, 247, 259	education for, 9	effects of weight gain on, 31–32
prodromal, 168	resources for, 249–255	lumbar lordosis and, 32
pushing phase of, 176–177	scope of practice of, x–xi, 7, 138	muscles supporting abdomen, 32
questions for mother regarding, 156–157	unique role of, 4	muscular areas stressed by pregnancy,
recognizing, 155 reflexology during, 163, 164f	Massage therapist tips, x addressing client health information with	37–47 Music, 83
second stage of, 155, 260, 176–178	sensitivity, 54	Myofascial hip opening, 119, 120f
stalled or slow, 184–186	choosing position for belly rub, 104	Myths about pregnancy massage, ix, x, 10,
support tools for, 159	fatigue, 18	85, 93, 105, 137
third stage of, 155, 260, 178–179	have partner massage client during labor, 186	N
transition phase of, 155, 174–175, 260 without touch, 148	heartburn, 26	Napropath, 85, 118
Labor/birth massage, 144f, 144–145, 155–180	identifying baby's position, 189	Nasal congestion, 18, 24, 29, 30, 83, 93
acupressure, 137, 149	is medical release necessary?, 60	Nausea/vomiting, 10, 15, 24, 26–27, 64, 85,
amniotic sac rupture during, 156	labor without touch, 148	247
for back pain due to posterior baby, 187–189 benefits of, 145	making your table comfortable for	after cesarean section, 238
of client unknowingly in active labor, 178	pregnancy, 91 maternal respiratory changes, 26	Neck pain, 32 nursing neck, x.217–219
by client's partner, 186	positioning for client with hip pain, 94	positioning for relief of, 88
contraindications to, 160	postural awareness, 114	Neck release, 218, 218f
in early labor, 170–171	postural checklist, 36	Neck rolls, 78
to encourage contractions, 149	reminders about birth, 149	Neck traction, 218–219
hand and foot massage, 165–166, 166f long strokes for, 166	respecting role of client's partner, 157, 158 strengthening the pelvic floor, 42	Nightmares, 19 Nipple contact, 116
in lull, 175–176	stretch marks, 131	Nosebleeds, 18, 24
pain threshold increased by, 146-147	supporting your hands during labor, 193	Nursing neck, x, 217–219, 218f
petrissage, 165	working with your scope of comfort,	Nurturance, 7, 82, 146, 146t
for placental delivery, 179 precautions for, 159–160	knowledge, and skill, 77 Mastitis, 206, 227, 258	0
in pushing phase, 177	Meconium, 155, 258	Obesity, 68
rebozo massage for, 167, 169f	Medical release, ix, 57–58, 59f, 258	Oblique abdominal muscles, 41
sacral counterpressure for, 167, 168f	for client being treated for blood clot, 62	Occipital traction, 96, 96f
for slow labor, 185–186 traditional practices of, 184	for client with high-risk complications of pregnancy, 71	Occiput and eyebrow points, 96–97, 97f Odent, Michel, 176
in transition phase, 175	necessity of, 60	Office setup, 83–84
two-person grounding stroke for, 166f,	for postsurgical clients, 239–240	Office temperature, 84
166–167	Meissner's corpuscles, 147	Oils, 84
Lactation, 7, 227–231 acupressure for, 232f	Melzack, Ronald, 147 Menstrual cycle, 5	for belly rubs, 136, 170 for circular massage of anxious laboring
traditional practices for improvement of,	Merkel's disks, 147	woman, 182–183
231	Midwives, 4, 144, 148, 149	for perineal massage, 138
Lateral hip rotator anchor and stretch, 222f,	Milk ejection reflex, 25, 228, 259	for postpartum massage, 203–204
222–223 Lateral hip rotator attachments, for sciatica,	Miscarriage, 70, 259 fear of, 8, 9, 71	for stretch marks, 131 for third-trimester edema, 121
125	in first trimester, 14–15, 58, 70, 84, 85, 105	Oligohydramnios, 72, 247, 259
Lateral hip rotator massage, 97–98, 100f	massage and, 10, 58, 71, 85, 105	Organ system adaptations during pregnancy,
Left tilt positioning, 92	prevalence of, 14–15	25–29 Outhortatic homotomoion, 27, 20, 20, 120, 250
Leg cramps, 6, 18, 19, 32, 55, 62, 100, 121–123 causes of, 121–122	repeat, 70–71, 247 Mother(s)	Orthostatic hypotension, 27, 29, 30, 130, 259 Ovulation, 14
circulatory massage for, 122	education for, 9	Oxytocin, 25, 116, 132, 146, 152, 259
general treatment of, 122	self-care tips for, x	•
inversion, eversion, and dorsiflexion	arm movement, 230	Parinian communatos 147
stretch-resistance for, 122–123 tips for mothers for prevention of, 123	belly lifts, 190, 190f breast massage, 232	Pacinian corpuscles, 147 Pain. <i>See also</i> specific types
Leg massage, 50, 62, 76, 100–101, 100f–101f	breathing practices, 229, 229f	attention to, 147
contraindications to, 246	to decrease low back pain, 113, 113f	back, 6, 7, 18, 19, 29, 32, 38, 46, 107–114
Leg press, 78	improving circulation and reducing	after cesarean section, 238
Leg roll, 78 Leg swelling, 18, 62	edema, 120 to prevent leg cramps, 123	dysfunctional, 148 effect of touch on threshold for, 146–147
Levator ani muscle, 38, 40f	preventing abdominal and uterine	emotional, 148, 150
Lifting effleurage, 120	ligament strain, 39	functional, 148, 150
Ligaments	to reduce sacroiliac joint pain, 125	gate control theory of, 147
postpartum changes in, 38, 197, 198–199 posture and, 32–33	to relieve groin spasm, 122 re-stabilizing after birth, 211	groin, 55, 119–121 of labor, 147–148, 194
relaxin effects on, 25, 32–33	squatting practice, 136f	back pain due to posterior baby,
uterine, 37f, 37–38	stress relief for client restricted to bed	187–189, 188f, 189f
bodywork considerations related to, 38, 39f	rest, 78 stretches to increase respiratory capacity,	gate control theory of, 147
preventing strain of, 38, 39f	129, 129f	general back pain, 189–193, 190f–193f management of, 155–156
spasm of, 19, 38	therapeutic strengthening exercises, 224	neck, 32, 88

253

sacroiliac, 32, 123–127 shoulder, 32, 88 traditional cultures and, 148 Positions of baby in utero, 153–154, 154f breech, 117–118, 153, 154f, 257 posterior, 153, 154f, 259 low back pain related to, 108 muscle tension and, 33 muscle tone and, 33 back pain due to, 187–189, 188f, 189f transverse lie, 153–154, 154f, 260 turning baby with acupressure, 191 vertex, 153, 154f, 260
Posterior position, 153, 154f, 259 back pain due to, 187–189, 188f, 189f Paraspinal muscles, 32 partner's help with, 36 poor, 32–33, 34f self-esteem and, 33 Partners of pregnant women, x belly rubs for contractions, 170, 170f help with postural support, 36 sitting, 36–37 help with sacral compression and weight gain and adjustments in, 31-32 unwinding, 95 Precautions and contraindications, ix, x, perineal massage by, 138–139 reactions to her body changes, 8 respecting role of, 157, 158 general treatment for, 187–188 Postpartum "blues," 225–227, 259 Postpartum bodywork, 200–206, 208–233 49-79, 82, 107, 245-248 for abdominal bodywork, 54-57, 245 for acupressure, 60-62, 61f, 245 Passive range of motion, 64–65, 246 Pectoralis stretch, 219 for ankle massage, 63, 63f for aromatherapy, 62, 246 assessments for, 209-210 diastasis recti, 209 psoas, 209–210, 210f spinal, 209 assessing symptoms of discomfort, 54–57 assessment questions, 52–54 for breast massage, 62, 115–116, 246 for electromagnetic field exposure, 64, 246 Pectoralis stretch and resistance, 114f, 114–115 Pelvic alignment rock, 223, 223f Pelvic floor muscles, 32, 38, 40f, 40–41, 259 attending to client for, 201 for back pain, 219–223 Kegel exercises for strengthening of, 40-41, low and mid back, 219–223, 221f–223f upper back, 219, 220f for foot massage, 65, 66f, 246 health factors that increase risk during pregnancy, 67-78, 246-248 problems associated with weakness of, 38, benefits of, 200, 201t client restricted to bed rest, 77-78, birth history and, 202 Pelvic heaviness, 19 for breast engorgement and tenderness, 231 246-247 Pelvic misalignment, postpartum, 210-212 client positioning for, 201 conditions requiring special precautions, Pelvic rebalancing, postpartum, 209, 211 Pelvic tilt, 32, 35, 41, 45 when baby accompanies mother, 201–202, 203f, 204 for edema, 212, 213 67-71, 246-248 high-risk complications, 71-77 health history intake form, 52, 53f in high-risk pregnancy, 49, 50, 51, 71–77, 258 for labor massage, 159–160 to decrease low back pain, 113 to relieve groin spasm, 122 "Peri Life Events Scale," 21 for fatigue, 223–225, 225f, 226f five "Bs" for, 202t for labor massage, 246
for leg massage to adductors and inner thigh,
62, 64, 64f
medical releasee, 57–58, 59f, 60 health intake questions for, 203 house calls for, 202 hydrotherapy, 217 Perineum massage of, 7, 138–139 muscles of (See Pelvic floor muscles) postpartum changes in, 198 in immediate postpartum period, 208–209 low-back release, 208–209 softening of, 177 for passive range of motion, 64-65, 246 stretching of, 176 tears of, 138, 176, 179 for perineal massage, 138 sacroiliac and pelvic rebalancing, 209 for nursing neck, 217–219, 218f for postpartum massage, 203-206, 246 Personal boundary violations, 7, 8 for postsurgical massage, 240 for pelvic misalignment and sacral-iliac pain, 210–212, 212f Petrissage, during labor, 165 primary considerations for pregnancy Physiological effects of massage in massage, 50-51 pregnancy, 6–7 Pillows and supports, 1, 84, 87f, 88, 90, 91 Piriformis muscle, 40f for postpartum "blues," 225–227 standard precautions, 51, 51t for supine positioning, 65–66, 67f, 246 precautions for, 203–206 body fluids, 205–206 symptoms requiring referral to prenatal care provider, 49, 50, 54–56 for thermal therapies, 246 saunas and hot tubs, 66–67 Pitocin, 132, 259 embolism and varicose veins, 204-205 Pitocin, 132, 259
Pitting edema, 54, 65, 66f, 259, 118
Placenta, 14, 17–18
delivery of, 178–179
traditional birth practices and, 177
Placenta previa, 73–74, 74f, 237, 248, 259
Placental abruption, 73, 237, 248, 259
Polarity therapy, 52
Polyhydramnios, 74–75, 247, 259
Positioning for bodywork, 1, 21, 50, 87–9 gestational hypertension/preeclampsia, hemorrhage, 205 mastitis, 206 separated symphysis pubis and unstable trimester considerations for, 84-85, 86t for Type I and Type II touch, 51–52 working with your scope of comfort, joints, 205 surgical incision, 205 knowledge, and skill, 77 Preeclampsia, 75, 207, 236, 247, 259 use of oils, 203-204 Pregnancy, 1–11 uterine infection, 206 preparation for, 202–203 Positioning for bodywork, 1, 21, 50, 87-92 changes noted by massage therapist for belly rub, 104 during, 1, 13 after cesarean section, 240 therapeutic strengthening exercises, 224 common complaints during, 107-131 for uterine and abdominal concerns, 212–217, 213f, 215f, 216f when to begin, 202 for client with hip pain, 94 culture and tradition of respect left tilt, 92 surrounding, 5 fetal development during, 14-23 from lying down to sitting, 39f Postpartum period, ix–x, 197–200, 259 bleeding in, 198 fifth or subsequent, 72 high-risk, 49, 50, 51, 71–77, 258 postpartum, 201 when baby accompanies mother, 201-202, hormonal changes during, 23–25 intimacy during, 8 length of, 152 common complaints in, 210–231 emotional changes in, 199 energy in, 199 Kegel exercises in, 197, 198 203f, 204 prone, 93 semi-reclining, 91–92, 92f sidelying position, 1, 38, 87–91 supine, 65–66, 67f, 85, 92 trimester considerations for, 84–85 organ system adaptations during, 25-29 low back pain in, 107 physical changes in, 197–199 abdomen, 199 partner's reactions to woman's body changes in, 8 weight gain in, 7–8, 31–32 Positions for labor, 171-174, 185 Pregnancy massage, 82-106 ligaments, low back, and pelvis, 198-199 to allay anxiety, 183 perineum, 198 avoiding bony pressure during, 83 for back pain due to posterior baby, uterus, 198 avoiding heartburn during, 83 traditional practices for care in, 200 Postpartum tubal ligation, 238–239 baby activity during, 83 benefits of, 6–7 187–188, 188f benefits of, 172t birth ball, 174 Postural awareness, 114 breath attunement for, 83 client comfort during, 29, 30 Posture, 7, 31–37 hands and knees, kneeling leaning adjustment of, 34, 35f, 35–36 assessment of, 33–35, 34f, 46, 82–83 forward, or leaning over a counter or client expectations for, 82 client expectations for, 82 client positioning for, 1, 21, 50, 83, 87–92 considerations specific to, 83 to create length and space in woman's body, 82 chair, 174, 186 sidelying, supine, or semi-reclining, 174 sitting in a chair, 173–174, 174f for slow labor, 186 squatting OM, 186 baby's size and position and, 33 discomforts related to, 32, 34–35 effects of tight psoas on, 45, 47f factors contributing to, 32–33 gravity and, 32, 34 dangers of, 10 dispelling myths about, ix, x, 10, 85, 93, straddling a chair, 171, 173, 173f supported squatting in front of a chair, 173, healthy, 34f 105, 137 hormones and, 32 effects on baby in utero, 1

Pregnancy massage (continued)	Relaxing and renewing energy, 183–184	shoulder mobilization for, 128
in first trimester, 10, 16t–17t, 58, 84, 85, 86t functions of, 5	Relaxing touch, 83 Resources, x, 249–255	stretches to increase respiratory capacity, 129, 129f
hydration after, 10, 29, 83	Respiratory system	Shoulder compression, related to sidelying,
issues with, 7–9	during pregnancy, 25–26	90
body image, 7–8	respiratory depression after cesarean	Shoulder mobilization, 128
body memories, 9	section, 237	Shoulder pain, 32
education for doctors, 9	stretches to increase respiratory capacity,	positioning for relief of, 88
education for massage therapists, 9	129, 129f	Shoulder pressure resistance, 218
education for mothers, 9	Re-stabilizing after birth, 211	Shoulder relaxation techniques, 97
fear of miscarriage, 8, 9, 71	Restroom facilities, 83	Shoulder rolls, 78
violation of personal boundaries, 8–9 labor induction and, 137	Revisioning, 183 Rib raking and trigger point release, 128–129,	Shoulder shrugging, 78 Sidelying position, 1, 38, 87–91
nurturance and, 82	128f-129f	belly rub in, 102–103, 102f–103f, 104
office setup for, 83–84	Ring of fire, 176, 260	changing sides for, 91
precautions and contraindications to, ix, x,	Rolfing, 51	client comfort in, 89-91
49–79	Round ligament, 37f, 38, 260	client positioning in, 87–88
preparation for, 83–84	spasm/pain of, 38, 119–121	draping in, 88–89, 89f
primary considerations for, 50–51	cause of, 120	indications for, 87
proper body mechanics for, 83, 84	compression and cross-fiber friction for,	instability during, 90
safety of, 1, 8, 10 techniques for, 92–105	120–121, 121f general treatment of, 120	practitioner comfort and, 90–91 support for, 87f, 87–88
arms and hands, 98–100	lifting effleurage for, 120	table height and, 87
back, 97, 98f	tips for mothers for relief of, 122	Sitting
belly rubs, 102f-103f, 102-105, 105f	1	in a chair during labor, 173–174, 174f
breathing and connecting, 93-94	S	posture for, 36–37
feet, 101–102	Sacral compression and unwinding, 94–95,	repositioning from lying down to, 39f
head and neck, 95–97, 96f, 97f	95f	Skin rolling/fascial lift, postpartum, 214–215,
lateral hip rotators and gluteals, 97–98,	Sacral counterpressure, during labor, 167,	215f
100f	168f	Sleep, 6
legs, 100–101, 100f–101f sacral compression and unwinding,	Sacral foramen stimulation for back labor, 191–192	Smoking, xi, 68 Social Readjustment Rating Scale, 21
94–95, 95f	for slow labor, 186	Sperm, 13–14
shoulders and chest, 97, 98f	Sacral palming, 186	Spider angioma, 24, 260
traditions of, 4f, 4–6	Sacral push, 211–212, 212f	Spinal assessment, postpartum, 209
trimester considerations for, 84–85, 86t	Sacral releases, 135, 137f	Spinal curvature, 32
use of relaxing touch for, 83	Sacral rub, 111	Spirituality, 139, 143
"Pregnancy waddle," 34	Sacroiliac and pelvic rebalancing, 125–127,	Sports massage, 51
Pre-labor, 155, 168–169, 259	127t	Squatting practice, 136t
Premature birth, 259 precautions for client with history of,	postpartum, 209, 211 Sacroiliac pain, 32, 123–127	Standing arm raise, 129 Stepstool, 84
71–72, 248	cause of, 123	Stimulating energy, 184
Prenatal care provider, symptoms requiring	femur traction and mobility for, 127, 127f	Stress, 6, 21
referral to, 49, 50, 54–56	general treatment of, 123-124	after cesarean section, 238
Preterm labor, 75, 247, 259	postpartum, 210–212, 212f	effects on labor, 145–146
Preterm labor contractions, 21, 75, 259	sacroiliac and pelvic rebalancing for,	relief of, 6, 7
Progesterone, 14, 18, 23–24, 28, 260	125–127, 127f, 209, 211	for client on bed rest, 78
Prolactin, 7, 25, 152, 260	tips for mothers for reduction of, 125	Stress hormones, 6, 7
Prolapse, 40, 260 Prone positioning, 93	trochanter and sacroiliac joint traction for, 125, 126f	Striae gravidarum (stretch marks), 19, 131, 199, 260
Psoas assessment, postpartum, 209–210, 210f	Sacroiliac relief, for back labor, 192f, 192–193	Subscapularis massage, 219, 220f
Psoas muscle, 45, 47, 47f	Safety concerns, 1, 8, 10, 51. See also	Subscapularis stretch, 115, 115f, 219
Psoas release, 220–221, 221f	Precautions and contraindications	Superficial thrombophlebitis, 68–69, 260
Psoas stretch, 113, 122	Sartorius muscle, 32	Supine bicycle riding, 224
assisted, 111, 112f	Sauna, 65–66	Supine pelvic unwinding,
Pulmonary embolism, 62, 69, 260	Scents, 83–84. See also Aromatherapy	212, 213f
Pushing phase, 176–177	Sciatica, 123, 260	Supine positioning, 65–66, 67f,
Q	cause of, 123	85, 92
Quadratus lumborum compression points,	general treatment of, 123 hamstring and lateral hip rotator releases	precautions and contraindications to, 65–66, 67f, 246
108–110, 109f	for, 124	Surgical incision, 205
Quadratus lumborum extension, 110, 111f	lateral hip rotator attachments for, 125	Swedish massage, 51–52, 63
Quadratus lumborum muscle, 32, 47	Scope of practice, x–xi, 7, 138	Symphysis pubis, 25, 40f
Quadratus lumborum release, 110, 110f	Second trimester	separation of, 25, 205, 248, 257
Quadratus lumborum stretch, 113, 113f	bodywork in, 84–85, 86t	-
Quadratus lumborum work, postpartum, 222	abdominal massage, 58, 60	T
Quadriceps muscle, 32	fetal development during, 17–18, 19f, 20t	Tensor fasciae latae, 32
Quadriceps work, postpartum, 222 Quickening, 18, 260	maternal sensations during, 18, 20t Self-esteem, 33	Terminology, 49, 51–52 Therapeutic benefits of touch, 2
Quickering, 10, 200	Semi-reclining position, 1, 91–92, 92f	Thigh
R	belly rub in, 104–105, 105f	compressing iliotibial band and, 101, 101f
Rebozo massage during labor, 167, 169f	comfortable positioning in, 92	kneading of, 100f, 100–101
rebozo friction, 167	indications for, 91–92	Third trimester
rebozo hip jiggle, 167	table height for, 92	bodywork in, 85, 86t
Rectus abdominis muscle, 32, 41, 42f	Serotonin, 7	essential oils for edema in, 121
Rectus femoris muscle, 32	Sheets, 84	fetal development in, 19–21, 21t, 22t, 23t
Reflexology, 63, 65, 149. See also Foot massage	Shiatsu, 51 Shortness of breath 19, 26, 32, 127–130	maternal sensations during,
during labor, 163, 164f Reiki, 52	Shortness of breath, 19, 26, 32, 127–130 cause of, 127–128	18–19, 22t Thromboembolic disorders, 68–70, 69f. <i>See</i>
Relaxation skills, 1–2, 7	general treatment of, 128	also Blood clots; Deep vein thrombosis
Relaxin, 19, 23, 25, 32, 108, 197, 260	rib raking and trigger point release for,	Pulmonary embolism
postpartum, 198–199	128–129, 128f–129f	Time requirements, 84

breech baby, 118 improving lactation, 231 Universal precautions, 83, 156 in second trimester, 18 in second trimester, 18 weight of, 37 Japanese pregnancy massage, 6 keeping mother and baby safe, 68 massage for birth across cultures, 144, 144f Utrinary urgency/frequency, 19, 29 Utrinary urgency/frequency, 19, 29 Utrinary urgency/frequency, 19, 29 Utrinary urgency/frequency, 19, 29 Vaginal discharge, 18 Varicose veins, ix, 18, 24, 62, 64f, 84, 205 Vertex position, 153, 154f, 260 Visualization, 94, 132, 133, 134, 149, 157, 161–162 softening the perineum, 177 in early labor, 169 soothing the womb, 214 felt as low back pain, 108 support for the belly, 42 preterm labor, 21, 75, 259 touch for labor, 184 supportive touch for encouragement of, 149 traditional cultures and pain, 148 utrailion phase, 155, 174–175, 260 Uterine fundus, 153, 260 Uterine fundus, 153, 260 Uterine infection, 206, 247 Transverse abdominis muscle, 32, 41 Universal precautions, 83, 156 urinary incontinence, 38 weight of, 37 Vaginal discharge, 18 Varicose veins, ix, 18, 24, 62, 64f, 84, 205 Vertex position, 153, 154f, 260 Visualization, 94, 132, 133, 134, 149, 157, 161–162 contraction-relaxation, 230–231 for slow labor, 186 Walking, 229 "pregnancy waddle," 34 Wall, Patrick, 147 Water drinking after massage, 10, 29, 83	improving lactation, 231 Japanese pregnancy massage, 6 keeping mother and baby safe, 68 massage for birth across cultures, 144, 144f mysteries of creation, 14 postpartum care, 200 power of the placenta, 177 recognizing labor, 155 softening the perineum, 177 soothing the womb, 214 support for the belly, 42 touch for labor, 184 traditional cultures and pain, 148 uterine massage, 85 Trager bodywork, 64 Transition phase, 155, 174–175, 260 Transverse abdominis muscle, 32, 41 strengthening exercises for, 224 Transverse lie, 153–154, 154f, 260 Transverse perineal muscle, 38, 40f Trigger point massage, 51 Trimesters of pregnancy, 14, 260 first, 14–15, 15f, 16t–17t second, 17–18, 19f, 20t third, 18–21, 21f, 22t Trochanter and sacroiliac joint traction, 125, 126f Tubal ligation, 260 postpartum, 238–239	Universal precautions, 83, 156 Urinary incontinence, 38 Urinary tract infection, 27–29, 73, 248, 260 Urinary urgency/frequency, 19, 29 Uterine contractions, 56, 153, 167, 257 in active labor, 171 belly rubs for, 170, 170f Braxton-Hicks, 19, 21, 24, 56, 154, 257 duration and frequency of, 153, 169 in early labor, 169 felt as low back pain, 108 preterm labor, 21, 75, 259 sensation of, 150, 153 supportive touch for encouragement of, 149 in transition phase, 175 Uterine fundus, 153, 260 Uterine infection, 206, 247 Uterine ligaments, 37f, 37–38 preventing strain of, 38, 39f spasm of, 19, 38 strain in prone position, 93 Uterine massage, 85 postpartum, 215–217, 216f to relieve uterine cramping, 216–217 traditional practices of, 214 self-massage, 4 Uterine rupture, 2326 Uterosacral ligament, 37f, 38, 260 spasm of, 38	in second trimester, 18 weight of, 37 V Vaginal discharge, 18 Varicose veins, ix, 18, 24, 62, 64f, 84, 205 Vertex position, 153, 154f, 260 Visualization, 94, 132, 133, 134, 149, 157, 161–162 contraction-relaxation, 230–231 for slow labor, 186 W Walking, 229 "pregnancy waddle," 34 Wall, Patrick, 147 Water drinking after massage, 10, 29, 83 Water immersion, during labor, 162–163, 163 Weight gain in pregnancy, 7–8, 31–32 Womb massage, postpartum, 215–217, 216f contraindications to, 246 to relieve uterine cramping, 216–217 traditional practices of, 214 Y Yates, Suzanne, 94 Yoga chest opener, 129, 129f	₿f
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