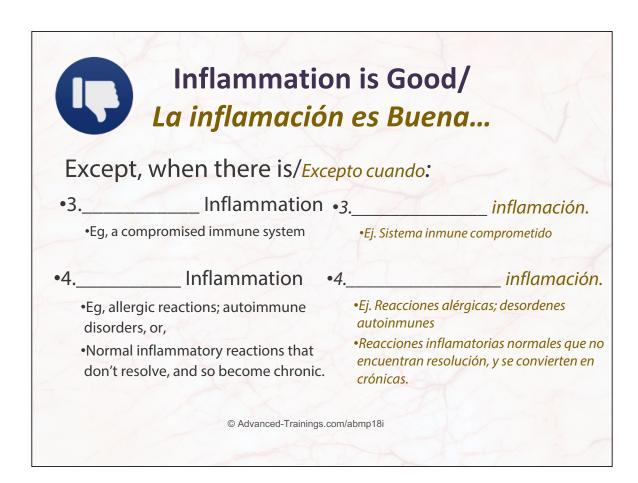
Working wit	h
Inflammation	1
Til Luchau Advanced-Trainings.co	-
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(dbmp) (ADVANCE TRAINING	D S

Inflammation is		
• The immune system's tissue 1. p		
and 2. r response;		
• El Sistema inmunológico es el responsable de		
• 1. p y 2. r del tejido;		
 Causado por: Triggered by: 		
3. i,		
4. i, o 4. i, o		
5. i © Advanced-Trainings.com/abmp18i		

Inflamación, Simplific	ada Acute
Histamine and kinins increase	Phase
vessel and cell 2	
Cytokines and signaling	·· ·
pathways 3	
immune cells	
	Vasodilatation
	Las histaminas y kininas aumenta
7///	celular y capilar.
	• Las citokininas y las vías de
Plasma extravasation	señalización 3 las
© Advanced-Trainings.co	celulas inmunológicas. m/abmp18i





Types of Inflammation Local General Acute Chronic Advanced-Trainings.com/abmp18i

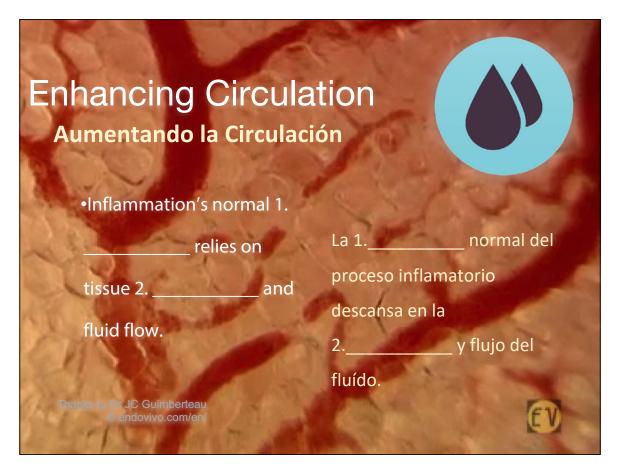
What about Diet? ¿Qué hay con la dieta? •However, there is no 3. on •Sin embargo, no hay un3. ___ best inflammation diet(s), and diets en cual es la major dieta, y las dietas tienen un 4. _____ largo de vida. have a 4. shelf-life. •Nutrition is very difficult to •La nutrición es muy difícil de Laboratorios o estudios con animales no •Lab and animal studies don't always •Individual differences, interactions, and contexto, todo añade complejidad. context all add complexity •As manual therapists, 6. Como terapeutas manuales, 6. generally within our scope generalmente en el alcance de •(...but, often worth asking about). nuestro trabajo •(...sin embargo, vale la pena preguntárselo).

What about Diet? ¿Qué hay con la dieta? •The gut plays a key role in 1. •Los intestinos juegan un inflammation. papel importante en la •There are many 2. of inflamación 1. diet being helpful. •Hay muchos 2. ____ de •Mediterranean diet; MIND diet; Antidietas que ayudan. inflammatory food pyramid; Bulletproof diet; keto diet; gluten-Mediterranea; dieta MIND; Pirámide anti-inflamatoria; keto; free diet; turmeric, green tea extract, blueberries, ginger, tea, dark glutten-free, curcuma, té verde, chocolate, fish oil... blueberries, jengibre, té, chocolate oscuro, aceite de pescado...

• C	
• A	_
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Client Engagement Compromiso del Cliente •...is the 1. ____ •...es el 1. _____ of working with trabajar con inflamación. inflammation. Conlleva: It involves: • Crear un 2. _____ en el cliente. Catalyzing clients' 2. •3. _____ resultados juntos. • 3. _____ results together •4. _____ a su propio cuerpo. • 4. _____ to one's own body •5. _____ a seguir al paso, medir, valorar, • 5. _____ to pace, grade, titrate, dosificar. •...y es un resultado de la •...and is a result of the 6._____ terapéutica. therapeutic 6._____. © Advanced-Trainings.com/abmp18i





Movement Safety

Non-threatening sensation, touch, movement, and directed attention can:

- •1. _____ sensate accuracy.
- •Help renegotiate the brain's habituated
- 2. _____reactions:
 - •Eg, a) _____, b)_____
- •3. _____and normalize sensation.

Seguridad de Movimiento

Un tipo de toque, sensación, movimiento y atención dirigida **No-amenzante**:

- •1. _____ la precision sensorial.
- •Ayuda a que el cerebro renegocee los patrones de reacciones
- 2.____:
 - •Ej, a)______
- •3. _____y

normalizar la sensación.

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Summary

- •Many times, local inflammation responds quickly and dramatically to hands-on work.
- •Other times (especially with systemic inflammation), your goals will be to calm, support, ease, and inspire the whole person, rather than "fixing" the inflammation.
- •Remember that helping can take many forms.

Resumen

- Muchas veces, la inflamación local responde rápida y dramáticamente a nuestro toque.
- Otras (en especial cuando la inflamación es sistémica), nuestro objetivo principal es calmar, apoyar, suavizar e inspirer a la persona como un todo, en lugar de querer "arreglar" la inflamación.
- Recuerdo que 'ayudar' puede tomar muchas formas.

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Optional Supplemental Materials

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- Slideshow PDF (free for subscribers)
- eBook "Mini-Manual" (\$1.99 with code "itookinflammationlive-ebook")
 - 60+ page PDF of online course slides,
 - AMT book excerpts,
 - note organizer pages,
 - articles and readings,
 - more techniques, etc.
- 1hr Online Certificate Course (\$7.50 with code "itookinflammationlive-certificate"
 - 1 CE/CAMT Credit; Certificate
 - Lecture; eBook; and extras













Answer Keys

Inflammation is...

The immune system's tissue

- 1. protection and
- 2. repair response;

Triggered by:

- 3. injury,
- 4. infection, or
- 5. irritation.

Inflammation, Simplified

Histamine and kinins increase vessel and cell 2. permeability Cytokines and signaling pathways 3. summon immune cells

Inflammation is Good

- · Necessary. Without inflammation, the body can't protect or 1. heal itself.
- Normally self-limiting. Winds down when protection and 2. repair tasks are complete.
- ...Except, when there is:
- · 3. Not Enough Inflammation, or 4. Too Much Inflammation

- The gut plays a key role in 1. $\underline{\text{systemic}}$ inflammation
- There are many 2. stories of diet being helpful
- However, there is no 3. <u>consensus</u> on best inflammation diet(s), and diets have a 4. short shelf-life
- · Nutrition is very difficult to 5. research:
- As manual therapists, 6. not generally within our scope.

Client Engagement

...is the 1. foundation of working with inflammation. It involves: Catalyzing clients' 2. <u>interest</u>, 3. <u>Tracking</u> results together, 4. Listening to one's own body, 5. Learning to pace, grade, titrate, and dose. ... and is a result of the therapeutic 6. alliance.

Autonomic Nervous System (ANS) Calming

Autonomic stress can 1. prolong inflammatory reactions, both locally and systemically

Liquids (Enhancing Circulation)

Inflammation's normal 1. <u>progression</u> relies on tissue 2. <u>perfusion</u>

Non-threatening sensation, touch, movement, and directed

- 1. Refine sensate accuracy.
- Help renegotiate the brain's habituated 2. <u>protective</u> reactions: Eg, a) immobilization, b) pain
 - 3. De-threaten and normalize sensation.

1. Stimulate and 2. Re-Start the Inflammatory Cycle

- Skilled direct soft tissue work is thought to sometimes 2. re-start a "stalled" inflammatory cycle.
- The intense sensation of direct work may help re-set 3. protective thresholds as well (tho in others, can 4. sensitize or aggravate).
- Practitioner training, experience, sensitivity, careful 5, pacing, and client health/engagement are crucial.

SIJ Self-Care I

I.X-17

СМ

Instructions / Intentions / Feel or Watch For



Movements / Cues:



Source: Robert DonTigny

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Adv. Myo. Techs: Ilia



I.X-16

CM

Instructions / Intentions / Feel or Watch For:



Movements / Cues:

Seated: Robert DonTigny Doorframe: source unknown

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Adv. Myo. Techs: Ilia

Supporting and Unwinding Arm: Motility

A.D-06

Unterstützen und Entwirren der Arme: Motilitä

CAM



Instructions / Intentions / Feel or Watch For:

Touch bones; Feel for and follow any latent tension in arm in order to release.

Movements / Cues:

Notes:

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Adv. Myo. Techs: Arm



W.A-06

ΑM

Heben / Senken des Kopfes



Instructions / Intentions / Feel or Watch For:

Lift and very slowly lower head.

Feel for release of tonus each step of the way, pausing to wait for client to let head go.

Variation: support head as client slowly reclines onto table, stopping and waiting whenever activation or tensing occurs.

Movements / Cues:

"Just let your head be heavy into my hands..."

Notes:

For clients with chronic vertigo, go very slowly and wait for subsidence of dizziness and any autonomic nervous system (ANS) activation before proceeding. Pace your work so as not to increase ANS activation or overwhelm

Keeping eyes open can help reduce any dizziness.

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Adv. Myo. Techs: Whiplash

Acute Injury Technique

W.A-07



Instructions / Intentions / Feel or Watch For:

- Gently, test motion of injured part in each direction.
 Without pushing, take part into easiest direction.
 Hold, follow, wait for release.
 Gently recheck movement.
 End in stillness.

Movements / Cues:

Notes:

Also known as the "Chinese Release."

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Adv. Myo. Techs: Whiplash



P.D-07

Sacro Flotante

Instructions / Intentions / Feel or Watch For:

Imagine a boat (sacrum) floating in the water (your hand). Follow any subtle movements you feel.

Movements / Cues:



Notes:

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Adv. Myo. Techs: Pelvis

Arm in the Sleeve

A.A-11

CLM



Instructions / Intentions / Feel or Watch For:

Holding soft-tissue "sleeve" while client lengthens bony "arm:" telescoping, growing bone.

Movements / Cues:

"Let your arm get longer, right through the bone."
"Allow your shoulders to stay relaxed, resting on the table."

Notes:

Help client stay open, wide, and relaxed in shoulder girdle.

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Adv. Myo. Techs: Arm



P.B-12

Madre Del Gato

Instructions / Intentions / Feel or Watch For:

Movements / Cues:

Notes:

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Adv. Myo. Techs: Pelvis

Crural Fascia / Retinacula

AN.XA

Fascia Cruris / Retinacula



Instructions / Intentions / Feel or Watch For:

"Fluffing up," lifting and loosening the retinacula.

Movements / Cues:



Indicated for preparation for ankle work, particularly dorsiflexion restrictions.

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Adv. Myo. Techs: Ankle

SC.B **CLMS**

erve Glide Test

Instructions / Intentions / Feel or Watch For: Direct client to compare the sensations of straightening the affected and unaffected legs. If straightening the affected leg increases sciatic pain, nerve tethering could be a factor (at or proximal to the site of reported pain).

Use Sciatic Nerve techniques to locate and release neural sheath adhesions. In general, work proximal to distal, retesting to track improvement.

Movements / Cues:

Straightening leg (extend knee).

[If pain increases with knee extension:] "Where do you feel it most?" (Can often indicate site of tethering.)

Can be helpful as a take-home client exercise/stretch. Clients should be cautioned not to overdo it, so as to avoid irritating an inflamed sciatic nerve.

Notes:

Variations (not pictured):

- 1. Positive test result when bringing leg across the body (knee extension with hip flexion with adduction) can indicate piriformis or hamstring involvement.
- 2. Placing the sole of the passive leg on the table by raising the knee can help differentiate between lumbar and non-lumbar tethering. Since knee-up position decreases lumbar extension, suspect tethering at lumbars if having passive leg's knee up decreases pain.

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Adv. Myo. Techs: Sciatica

Long Slump Slider (Modified)

SC.XB



Instructions / Intentions / Feel or Watch For:

Movements / Cues:

Variation: seated on floor.



"3 sets, 5 repetitions held for 5 seconds of unilateral Modified Long Slump Slider (MLSS) significantly improved bilateral (...) muscle extensibility and stretch tolerance, which was retained 3 weeks post-intervention" (Pietrzak and Vollaard, 2016) https://noijam.com/2017/06/09/the-modified-long-sit-slump/

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Adv. Myo. Techs: Sciatica

Differentiating Bones of Hand

A.E-03

Differenzierung: Knochen der Hand



Instructions / Intentions / Feel or Watch For:

Differentiating and "describing" all bones of hand. Take your time; "fill the

Movements / Cues:

Notes:

For Carpal Tunnel or Repetitive Strain symptoms, especially when thumb oppositional movements produce symptoms, pay special attention to Scaphoid/Trapezium joint at base of thumb.

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Adv. Myo. Techs: Arm

Rotator Cuff / Glenohumeral Capsule

A.B-05

Rotatorenmanschette

LMS



Instructions / Intentions / Feel or Watch For:

Feel for and release restrictions around glenhumeral joint.

Movements / Cues:

Passive rotation, circumduction, etc. of humerus.

Indicated for reduced inferior glide, as well as rotator cuff, labrum, or impingement issues.

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Adv. Myo. Techs: Arm



AN.XA

S

Instructions / Intentions / Feel or Watch For:

Movements / Cues:

Notes:

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Adv. Myo. Techs: Ankle

Infrapatellar Fat Pad /Patellar Tendon

K.B-04



Instructions / Intentions / Feel or Watch For:

Work the infrapatellar fat pad in joint space between femur and tibia. Feel for tenderness, fibrosity.

Movements / Cues:

Variation: passive flexion, extension, rotation.

Notes:

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Adv. Myo. Techs: Knee



K.X-02

Instructions / Intentions / Feel or Watch For:

- In cases of pes anserinus irritation,

 1. Work to evoke relaxation and glide in constituent structures:

 Sartorius
- Gracilis
- Semimembranosus.
- 2. Differentiate layers of pes anserinus tendons themselves, relieving stress on

Movements / Cues:



Notes:

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Adv. Myo. Techs: Knee