

Facial Pain

DNA Health Report

REPORT CATEGORY —



PAIN

Sample Client

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Personal information

NAME

Sample Client

SEX AT BIRTH

Male

HEIGHT

5ft 5" 165cm

WEIGHT

137lb 62kg

DISCLAIMER

This report does not diagnose this or any other health conditions. Please talk to a healthcare professional if this condition runs in your family, you think you might have this condition, or you have any concerns about your results.



How this works

Our Wellness Reports analyze how your DNA influences your health.
We then use this analysis to give you personalized risk estimates and recommendations.



Similarly, our Trait Reports look at how your DNA influences your traits.



Your DNA is like an instruction manual — it contains a lot of information.
You can think of it as a blueprint for your body.

Genetic variants are parts of DNA that differ from person to person. Some can make you more vulnerable to certain health issues, while others may influence traits such as eye color.



We use artificial intelligence and machine learning to analyze all this information.
We then summarize your results as a risk score or display it on a gauge.

In total, we analyze up to 83 million genetic variants.

When we give a risk score, the risk icon tells you if you are at a higher or lower risk compared to other people:



Genotype color info:

AA

You don't have any risk alleles

AA

You have 1 risk allele

AA

You have 2 risk alleles

Your risk is also displayed as a percentile. This will tell you how your risks compare to our sample population. The lower your percentile number, the lower your risk. The "50th percentile" would be an average risk.

Similarly, the gauge tells you your relative risk score compared to our sample population, or it indicates a specific trait or haplotype you are more likely to have based on your genetic variants.

When applicable, we also list top evidence-based recommendations that may help lower your risk. The focus is on recommendations that may be of benefit to you, based on your genetics.

Our recommendations come in four categories: lifestyle, diet, supplements and drugs.
The following icons tell you which category a recommendation falls into:



Our team of scientists also ranks each recommendation.
We rank based on impact and the strength of evidence in the medical literature.

Impact shows how strongly a recommendation will affect your health in a certain area.
Evidence is how much scientific support there is for the recommendation. Rankings are from 1 to 5 (low to high):



Impact

Impact scores range from 1-5. These scores reflect how much of an effect each recommendation can have. An impact score of 5 predicts the biggest effect.

When a recommendation affects something we can measure, we use those measurements to assign the impact score. For example, a recommendation that decreases cholesterol by 20% will have a higher impact score than one that decreases it by 5%.

Some recommendations affect things that we cannot directly measure, like stress or mood. For these, the impact score is based on how well they work relative to other recommendations and standard treatments. The best ones get the highest scores.

If there is a lot of research that shows a recommendation works especially well for your genotype, the impact score gets increased.

Recommendation Evidence

- 5 / 5
- Recommendations that are considered effective and generally recommended by experts and medical bodies.
-
- 4 / 5
- Recommendations that are considered likely effective and that have multiple independent meta-analyses and a great many studies supporting them.
-
- 3 / 5
- Recommendations that are considered possibly effective and have many studies supporting them
-
- 2 / 5
- Recommendations that have insufficient evidence, with two or several clinical trials supporting them, or many studies but with ambiguous results.
-
- 1 / 5
- Recommendations that have insufficient evidence, with a single clinical trial, or with many studies most of which didn't find support for the recommendation.
-
- 0 / 5
- No evidence in humans.

Genotype-specific Evidence

- High-quality
- Direct evidence that a recommendation helps more in people with your gene variant (many clinical trials, a few large clinical trials, or a meta-analysis).
- Medium-quality
- Direct evidence that a recommendation helps more in people with your gene variant (a few clinical trials or one large clinical trial).
- Low-quality
- Direct evidence that a recommendation helps more in people with your gene variant (a single clinical trial or more trials with inconsistent results).
- Indirect
- A recommendation may help more in people with your gene variant because it targets a specific gene or protein affected by your variant (e.g., MTHFR, dopamine).
- In theory
- A recommendation may help more in people with your gene variant because it targets a specific mechanism affected by your variant (e.g., inflammation, oxidative stress).

Some things to keep in mind:

- Genetics doesn’t play a considerable role in a condition or a trait.
- There is not enough research available to estimate a genetic predisposition.
- There are technical limitations to estimating or presenting a genetic predisposition.
- The topic is sensitive, and a genetic predisposition should only be estimated and presented by a healthcare professional.

Introduction

Facial pain is a common medical complaint that can range from mild discomfort to severe pain, significantly affecting an individual's quality of life. The etiology of facial pain is wide-ranging and can include a variety of causes, such as nerve disorders, sinus issues, dental problems, or muscular tension.

The nature of facial pain can be a sharp, stabbing sensation, a dull ache, or a burning feeling, and it often presents a diagnostic challenge due to its complex underlying mechanisms. Proper diagnosis is crucial as treatments are highly dependent on the identified cause of the pain.

Diagnosis and Treatment

Diagnosing facial pain often involves a multidisciplinary approach that can include dentists, neurologists, and otolaryngologists, among others, to analyze symptoms comprehensively and conduct appropriate tests. Treatment strategies could involve medication, physical therapy, nerve blocks, or surgery, depending on the diagnosis.

For instance, Trigeminal Neuralgia, which is characterized by sudden, severe facial pain, is treated differently from pain resulting from Temporomandibular Joint Disorders (TMD). Psychological support and pain management techniques can also play pivotal roles in the approach to facial pain, highlighting the need for a comprehensive and patient-specific treatment plan.



MORE LIKELY

More likely to have facial pain based on 104,678 genetic variants we looked at



Your Recommendations

Your recommendations are prioritized according to the likelihood of it having an impact for you based on your genetics, along with the amount of scientific evidence supporting the recommendation.

You’ll likely find common healthy recommendations at the top of the list because they are often the most impactful and most researched.

DOSAGE		DOSAGE	
1	Topical Arnica	2	Riboflavin (Vitamin B2) 25 mg
3	Ginger 500 mg	4	Magnesium 350 mg
5	Jaw Exercises 10 minutes	6	Acupuncture 1 hour
7	Cold Applications 15 minutes	8	Topical Peppermint Oil
9	Apply Heat 15 minutes	10	Topical Capsaicin
11	Topical CBD	12	Peppermint Oil 180 mg
13	Turmeric	14	Topical Aloe Vera
15	Massage 30 minutes		

1



Topical Arnica

IMPACT1 / 5

EVIDENCE1 / 5

How to implement

Apply arnica cream or gel to the affected area 2 to 3 times daily for up to 3 weeks. Ensure the skin is clean and unbroken before application.

Description

Arnica is a natural plant-derived remedy often used topically for its potential to reduce bruising, inflammation, and muscle soreness. It can be applied to areas of the body experiencing minor injuries or trauma.

[Arnica](#) is a daisy-like flower that grows in the mountains. People use arnica creams for [\[R\]](#), [\[R\]](#):

- Muscle or joint pain
- Swelling
- Bruises

How it helps

A study of 80 participants found that applying creams on the face during the COVID-19 pandemic reduced facial pain and other complications of facemask wearing. Almost 14% of the participants used arnica cream [\[R\]](#).

2



Riboflavin (Vitamin B2)

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Take a riboflavin (vitamin B2) supplement daily, with a dose ranging from 5mg to 400mg, depending on the specific health concern or advice from a healthcare provider. Swallow the supplement with water, preferably with a meal to enhance absorption. This regimen can be continued long-term or as directed by a healthcare professional.

TYPICAL STARTING DOSE

25 mg

Description

Riboflavin is a water-soluble B vitamin found in various foods like dairy products, leafy greens, and lean meats. It plays a crucial role in energy production, metabolism, building red blood cells, and maintaining healthy skin and eyes.

[Vitamin B2](#) helps our cells create energy. It's also known as riboflavin [\[R\]](#), [\[R\]](#).

This vitamin is important for [\[R\]](#), [\[R\]](#):

- Brain, liver, and gut health
- Building red blood cells

Riboflavin deficiency is rare in the US. People with gut, eating, or hormonal disorders may be at a higher risk. Alcohol abuse and certain medications can also deplete this vitamin [\[R\]](#), [\[R\]](#).

Good sources of riboflavin include [\[R\]](#), [\[R\]](#):

- Eggs
- Dairy
- Lean and organ meats
- Green vegetables
- Fortified cereals

How it helps

Vitamin B2, also known as riboflavin, has been studied for its role in reducing migraine frequency, which can be associated with facial pain. By aiding in the energy production within brain cells, it may help in managing conditions that lead to facial pain.

3



Ginger

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Take a 500 mg ginger supplement daily, preferably with a meal to enhance absorption and minimize potential stomach discomfort.

TYPICAL STARTING DOSE

500 mg

Description

Ginger is a versatile spice known for its potential anti-inflammatory and digestive benefits. It may help alleviate nausea, reduce muscle soreness, and support gastrointestinal comfort when consumed as part of a balanced diet.

[Ginger root](#) is a cooking spice and a traditional remedy. People mostly use it to relieve [\[R\]](#):

- Nausea
- Menstrual cramps
- Joint pain

How it helps

Ginger has natural anti-inflammatory properties that can help reduce pain, including facial pain. By reducing inflammation, ginger helps to alleviate the discomfort associated with conditions that can cause facial pain.

4



Magnesium

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Take up to 350 mg of magnesium daily as a supplement, preferably with a meal to enhance absorption.

TYPICAL STARTING DOSE

350 mg

Description

Magnesium is an essential mineral involved in various bodily functions, including muscle contractions, nerve signaling, and bone health. Maintaining adequate magnesium levels through diet or supplements can support overall well-being and reduce the risk of magnesium deficiency-related health issues.

[Magnesium](#) is an essential mineral. Your body needs it for [\[R\]](#), [\[R\]](#), [\[R\]](#):

- Muscle, nerve, and bone function
- Blood sugar and blood pressure control
- DNA and protein production
- Strong immunity

Women need **310-320 mg** of magnesium per day, while men need **400-420 mg** [\[R\]](#).

Foods rich in magnesium include **nuts, seeds, and leafy greens**. Magnesium is also available as a supplement [\[R\]](#).

How it helps

Magnesium helps relax muscles and nerve endings, which can relieve muscle tension and reduce pain. This is beneficial for those experiencing facial pain, especially when it is linked to muscular tension or nerve issues.

5



Jaw Exercises

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Perform jaw exercises twice a day, each session lasting for 10 minutes. Focus on movements that open and stretch the jaw, such as slowly opening and closing your mouth as wide as comfortably possible, and moving the jaw gently from side to side. Consistent daily practice over several weeks is essential for noticeable improvement.

TYPICAL STARTING DOSE

10 minutes

Description

Jaw exercises can help alleviate symptoms of temporomandibular joint (TMJ) disorders and improve jaw mobility. They may provide relief from jaw pain and support better oral health.

How it helps

Jaw exercises can help relieve facial pain, especially if it's related to TMJ disorders or tension. These exercises strengthen the jaw muscles, increase mobility, and promote relaxation, which can lessen pain and discomfort.

6



Acupuncture

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Visit a licensed acupuncturist for a session, typically lasting between 30 to 60 minutes, once or twice a week. Depending on your specific condition, a course of treatment might range from a few weeks to several months.

TYPICAL STARTING DOSE

1 hour

Description

Acupuncture is a part of traditional Chinese medicine. It involves inserting thin needles at specific points on the body. People use it to relieve pain and allergies, as well as reduce nausea and improve sleep.

[Acupuncture](#) is a part of traditional Chinese medicine. It involves **inserting thin needles at specific points on the body**. People use it to [\[R, R, R, R, R\]](#):

- Relieve pain
- Improve sleep quality
- Relieve allergies
- Reduce nausea

How it helps

Acupuncture involves inserting thin needles into specific points on the body. For facial pain, it can help by stimulating nerves, muscles, and connective tissue. This stimulation boosts the body's natural painkillers and increases blood circulation, reducing pain.

7



Cold Applications

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Apply a cold pack or a bag of frozen peas wrapped in a towel to the affected area for 15-20 minutes, every 2-3 hours during the first 48 hours of experiencing pain or swelling.

TYPICAL STARTING DOSE

15 minutes

Description

Cold applications, such as ice packs, can help reduce inflammation, alleviate pain, and promote muscle recovery after injuries or intense physical activity. Applying cold can provide temporary relief from discomfort and support the body's natural healing processes.

People use cold applications to relieve pain, reduce inflammation, and more [\[R, R\]](#).

Types of cold applications include [\[R, R\]](#):

- Ice packs
- Ice baths
- Cryotherapy

How it helps

Applying cold packs to the face can reduce inflammation and numb the area, providing relief from facial pain. The cold temperature slows down nerve activity, which can help reduce pain sensations.

8



Topical Peppermint Oil

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Apply 2-3 drops of peppermint oil diluted in a carrier oil (such as coconut or jojoba oil) directly to the area of concern. Do this no more than 2-3 times daily. Always perform a patch test on a small area of your skin first to check for any adverse reactions.

Description

Peppermint oil, extracted from the peppermint plant, is used topically for its cooling and soothing properties. It can provide relief from headaches, muscle aches, and skin irritations when applied to affected areas.

How it helps

Peppermint oil contains menthol, which can help soothe pain in the facial area by creating a cooling sensation and temporarily overriding pain signals.

9



Apply Heat

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Place a warm, not hot, heating pad or a warm wet towel on the affected area for 15-20 minutes at a time. Do this several times a day, ensuring there's at least a 1-hour interval between sessions to avoid skin damage.

TYPICAL STARTING DOSE

15 minutes

Description

Applying heat, such as through heating pads or warm baths, can help relieve muscle tension and soothe pain. It is a common method for managing muscle aches, menstrual cramps, and minor injuries.

People use hot applications to relieve pain, improve blood flow, and more [\[R\]](#), [\[R\]](#).

Types of hot applications include [\[R\]](#), [\[R\]](#):

- Heating pads
- Hot baths
- Saunas
- Hot water bottles

How it helps

Applying heat to the area of pain can ease facial pain by increasing blood flow and relaxing tight muscles. The warmth can soothe discomfort, reduce stiffness, and provide a calming effect, helping to alleviate pain.

10



Topical Capsaicin

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Apply a capsaicin cream or gel to the affected area 3 to 4 times daily. Make sure the skin is clean and intact before application. Avoid contact with eyes, mouth, and other sensitive areas. Use consistently for several weeks to see improvement.

Description

Capsaicin is a compound found in chili peppers and is used topically in creams and patches for its potential to alleviate pain related to conditions like arthritis, neuropathy, and muscle soreness.

[Capsaicin](#) is the compound that makes chili peppers spicy [\[R\]](#).

People use topical capsaicin to relieve pain and oral capsaicin to aid weight loss [\[R\]](#), [\[R\]](#).

In the short term, capsaicin causes pain. However, **if you’re exposed to a lot of capsaicin over a long period of time, it can reduce your pain sensitivity** [\[R\]](#), [\[R\]](#).

***Please note:** Capsaicin may irritate the skin. Consult your doctor if the irritation is severe or lasts longer than 4 weeks. If capsaicin gets in your eyes, flush them with water immediately and consult your doctor [\[R\]](#), [\[R\]](#), [\[R\]](#).*

How it helps

Topical Capsaicin, derived from chili peppers, can help reduce facial pain by depleting the nerve cells of a substance that's essential for sending pain signals. Over time, this reduces pain intensity.

11

Topical CBD

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Apply a CBD-infused cream or ointment to the affected area of the skin 2-3 times per day, gently massaging it into the skin until fully absorbed. Continue this regimen for at least 4 weeks to assess effectiveness.

Description

CBD, derived from the cannabis plant, is used topically in various skincare products for its potential anti-inflammatory and soothing effects on the skin. It is applied to address skin conditions like acne, eczema, and psoriasis.

[Cannabidiol \(CBD\)](#) is a compound found in cannabis. Unlike its cousin THC, **CBD is not psychoactive and can’t get you “high”** [\[R\]](#).

People use CBD to:

- Reduce anxiety [\[R, R\]](#)
- Relieve pain [\[R, R, R\]](#)
- Prevent seizures [\[R\]](#)
- Improve sleep [\[R\]](#)

Topical CBD products are also available. People use them for skincare, joint problems, and more [\[R, R\]](#).

How it helps

CBD has anti-inflammatory and analgesic properties. When applied topically, it can help address inflammation and pain directly at the source without systemic side effects.

12



Peppermint Oil

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Take 180-400 mg of peppermint oil in capsule form daily before meals. It is recommended to continue this regimen for at least 4 weeks to evaluate its effects.

TYPICAL STARTING DOSE
180 mg

Description

Peppermint oil is an essential oil derived from the peppermint plant (*Mentha × piperita*). It has a long history of traditional use, dating back to ancient Egypt and Rome, where it was utilized for digestive and respiratory issues. Its main compounds, menthol and menthone are utilized for a variety of potential health benefits, including digestion, skin care, headaches, and respiratory congestion.

People use peppermint in foods, cosmetics, and supplements. [Peppermint oil](#) is an essential oil from peppermint leaves. It may ease muscle pain, relieve headaches, and improve digestion [\[R\]](#), [\[R\]](#).

Please note: *Peppermint oil may interact with certain medications. If you are taking any medications, consult your doctor before using peppermint oil* [\[R\]](#), [\[R\]](#).

How it helps

Peppermint Oil contains menthol, which has analgesic (pain-relieving) properties. Applying Peppermint Oil topically can create a cooling sensation that temporarily alleviates pain, including facial pain caused by conditions like headaches or nerve pain.

13



Turmeric

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Incorporate 500-1000 mg of turmeric into your daily diet, either by adding ground turmeric spice to your food, such as in curries, soups, and smoothies, or by taking a dietary turmeric supplement. This should be done daily for at least 8 weeks to observe potential health benefits.

Description

Turmeric is a bright yellow spice derived from the root of the *Curcuma longa* plant. It contains curcumin, a potent antioxidant and anti-inflammatory compound. Turmeric is used for various health conditions, including reducing inflammation, alleviating joint pain, and supporting digestive health.

How it helps

Turmeric contains curcumin, which has anti-inflammatory properties. Inflammation can be a cause of facial pain, particularly in conditions like TMJ disorders. Consuming turmeric may help reduce inflammation and, as a result, decrease facial pain.

14



Topical Aloe Vera

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Apply a thin layer of pure aloe vera gel extracted directly from the aloe plant or an aloe vera-based product directly to the affected area. Gently rub it in until it is absorbed. Repeat this application 2-3 times daily until the symptoms improve.

Description

Aloe vera is a plant-derived gel known for its skin-soothing and healing properties. Topical applications of aloe vera are commonly used to relieve sunburn, minor burns, and skin irritation, promoting faster healing and reducing discomfort.

[Aloe vera](#) lives in the desert, and its thick leaves store water in the form of a gel [\[R\]](#).

Topical aloe vera may help soothe burns and skin conditions [\[R\]](#).

Oral aloe vera may help with blood sugar and gut health [\[R\]](#).

How it helps

Aloe Vera has cooling and anti-inflammatory properties that can soothe the skin and reduce facial pain associated with inflammation and skin irritations.

15



Massage

IMPACT

0 / 5

EVIDENCE

0 / 5

How to implement

Schedule a massage session, ideally with a licensed therapist, for 30-60 minutes, once a week. Choose a type of massage that suits your specific needs, such as Swedish for relaxation or deep tissue for muscle tension.

TYPICAL STARTING DOSE

30 minutes

Description

Massage therapy involves the manipulation of soft tissues to relax muscles, reduce stress, and alleviate pain. It can improve circulation, promote relaxation, and provide relief from various physical and mental health concerns.

If you’ve ever had a professional [massage](#), then you probably know how much good it can do. Massages may help with [\[R\]](#), [\[R\]](#), [\[R\]](#):

- Anxiety
- Pain
- Fatigue

Reflexology is a type of massage. It involves applying pressure to specific parts of your feet or hands. In theory, by pressing on these areas, you can relieve tension from other parts of the body [\[R\]](#).

Acupressure is a similar technique, in which pressure points are used to help with stress and pain [\[R\]](#), [\[R\]](#).

How it helps

Facial massage can help alleviate pain by improving circulation and lymphatic drainage, reducing muscle tension, and promoting relaxation. This can be particularly effective for pain related to stress or muscular issues.

Next Steps

Remember, your genes only tell one important part of your health story!

Now that you've seen your DNA-based results for this health topic, let's take a look at other contributing factors.

Your lab results

Your lab results are impacted by the combined effect of your genes, environment and lifestyle.

Lab tests will give you the best picture of your current health status, while your genes provide insight into your health predispositions and which recommendations are best for you.