# Arthritis

*One register, four routes by which a single hinge fails — and the four corrections that aim at the register itself*

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*Tau (T) is the living fabric of time itself — the sole substance of which all physical reality is composed. Time is created in the core of the Sun and flows outward through the solar system, laying down matter at the nodal points we call planets and carrying life as it goes. Every particle, force, wavelength and conscious experience is a configuration of T-flow, and every value it carries is an address written in powers of 2, 3, 5 and π. There is no gravity, no separate electromagnetic force, no separate nuclear force: all are registers of the single T-field. The conservation law dΣT = 0 governs every change — T is never created or destroyed, only redistributed.*

## Abstract

Arthritis is the most common cause of disability on Earth. Some six hundred million people live with the worn joints of osteoarthritis, nearly twenty million with the self-attack of rheumatoid arthritis, more than fifty million with gout — and medicine treats them as a list of unrelated complaints: one a wearing-out, one an immune mistake, one a crystal. The Universal Force of Time sees one thing failing in several ways.

A joint is the body's load-equalising pressure register, T_P. Its working surface, cartilage, is a collagen lattice whose healthy node is **640 Å** [$2^7 \cdot 5$] and whose ceiling is **864 Å** [$2^5 \cdot 3^3$] — the master pivot that also times the day — saturated about **three-quarters** [$3/2^2$] with structured water, the T-medium of refractive index **4/3** — the same two numbers turned over — and held at the thermal node **36.864 °C** [$2^9 \cdot 3^2/5^3$]. The paper acknowledges the illness and reads it as four routes by which that one register fails, each paired with the correction, in principle, that would realign it: the cushion drains (osteoarthritis); the address is misread and frozen off the lattice (rheumatoid); a carrier falls out of the flow and crystallises at the coldest node (gout and pseudogout); and the lubrication and warmth fail first, the clock that announces all the others. An order law binds them: **a drift is reversible; a deletion is not**.

Three of medicine's own measurements are read as the theory requires: the rheumatoid immune attack is aimed at proteins whose chemical address has been altered; rheumatoid disease strikes both sides of the body at once, as an attack on one address written twice must; and urate stays dissolved less and less as a joint cools, so gout begins in the great toe. Eleven propositions, P-ARTH-1 to P-ARTH-11. The mechanism is given in full; corrective detail is held in the Foundation's clinical reference, and the structure resolves into the clinical trial.

**Not three diseases. One register of time — a hinge — failing in four ways.**

## 1. The Hinge That Carries You

Kneel to lift a child, climb a flight of stairs, close your hand round a cup — and a quiet machine goes to work in your joints, one so smooth you never feel it until it fails. A healthy knee carries your whole weight, and on the stairs several times your weight, across a film of fluid thinner than a sheet of paper and slicker than ice on ice. It does it thousands of times a day for eighty years without a sound. **When it goes wrong, the world shrinks to the size of the room you can still cross.**

Arthritis is the most common cause of disability on the planet, and almost no one can tell you what it is. Medicine answers with a list. Osteoarthritis is wear. Rheumatoid arthritis is the immune system turning on the body. Gout is a crystal. Three stories, three clinics, three sets of drugs, and no thread between them.

The Universal Force of Time tells one story, because under the names there is **a single thing — a single register of time — failing in several different ways**. This paper does what a Universal Force of Time medical paper is for. It acknowledges the illness. It identifies the problem, and the problem here is not single: there are four real routes by which the register fails. And it pairs each route, one to one, with the correction that would realign it — stated as a principle, because the next step is not to prescribe but to test.

## 2. What a Joint Is

Most of the joints that hurt in arthritis are **synovial joints**: the knee, the hip, the knuckles, the base of the big toe. Two bone ends meet inside a sealed bag, the joint capsule. Each bone end is capped with a few millimetres of smooth, white, rubbery **cartilage**. The bag is lined with a thin living membrane, the **synovium**, which makes a clear, slippery liquid — **synovial fluid** — that fills the gap between the two caps.

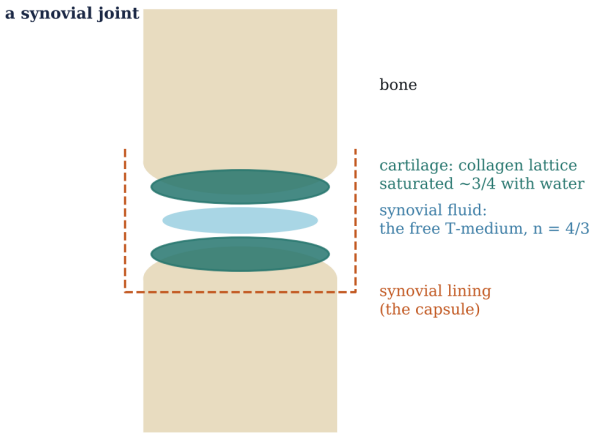



*Figure 1. A synovial joint. Two bone ends, each capped with cartilage — a collagen lattice saturated about three-quarters with water — meet across a film of synovial fluid inside a lined capsule. The cartilage has no blood supply: the fluid is its only food.*

Cartilage is not a passive pad. It is a woven lattice of collagen fibres — mostly type II collagen, the kind found almost only in cartilage — with long, bristling molecules called proteoglycans trapped in its mesh. The proteoglycans hold water the way a sponge does, and water is most of what cartilage is: roughly two-thirds to four-fifths of its weight. Squeeze the joint and water is pressed out of the cartilage; release it and the water flows back in.

Cartilage has **no blood vessels**. It is fed only by that pumping: nutrients come in with the water as the joint is loaded and unloaded. A joint that is not used is a cartilage that is not fed. And because there is no blood supply, cartilage has almost no power to repair itself once it is gone.

Synovial fluid is the other half of the machine. It is thick with hyaluronan and a protein called lubricin, and it does something engineers find hard to copy: its behaviour depends on how it is moved. At rest and in slow movement it is thick and slow-flowing; in fast movement it thins and lets the joint glide; under a sudden impact it behaves more like a spring. One fluid, three behaviours, each the right one for the load at that moment.

## 3. The Joint Is a Pressure Register

In the Universal Force of Time every organ is a receiver tuned to one face of the T-field. The eye reads wavelength, T_λ. The ear reads pressure waves, T_M. The kidney balances pressure and flow. **The joint belongs to the same family: it is the body's load-equalising pressure register, T_P.** Its job is to take the press of your weight and spread it so evenly that no point is ever distorted — the same thing the Earth does at the Moho, the depth where radial and orbital motion equalise and the rock feels no strain.

| THE JOINT IN LATTICE TERMS | |
|---|---|
| **collagen node** | **640 Å** [$2^7 \cdot 5$] — the healthy node |
| **collagen ceiling** | **864 Å** [$2^5 \cdot 3^3$] — the master pivot |
| **water in cartilage** | **about 3/4** [$3/2^2$] — the saturation |
| **structured-water medium** | **n = 4/3** [$2^2/3$] — the refractive index |
| **thermal node** | **36.864 °C** [$2^9 \cdot 3^2/5^3 = 4608/125$] |
| **joints in the body** | **about 360** [$2^3 \cdot 3^2 \cdot 5$] — the degree-circle |

### 3.1 The 864

The collagen lattice of cartilage has its healthy node at 640 Å [$2^7 \cdot 5$] and its ceiling at 864 Å — the same pair the collagen of the liver carries. The 864 is the single most travelled number in the unification book. It times the day; it steps the planets; it sits inside the chain that turns the free fall — not a pull, but the flow of time at a place, in metres per second, every second, the flow that completes the Earth's turn to the 24-hour day — into the speed of light.

**$864 = 2^5 \cdot 3^3$ ; $864 \times 100 = 86{,}400$**

**WHAT EACH PART IS**

- 864 — the ceiling of the joint's collagen lattice, in ångströms (an ångström is a ten-thousand-millionth of a metre)
- × 100 — the free decade: a power of ten costs nothing on the lattice, because ten is two times five
- 86,400 — the seconds in one solar day [$2^7 \cdot 3^3 \cdot 5^2$]

**WORKED EXAMPLE**

32 × 27 = **864**; × 100 = **86,400 seconds**, one day.

And in the free-fall chain: 9.817477042468104² × 864 × 3600 = 299,789,233.6830893 m/s, the speed of light — the same 864.

Finding it again as the spacing that holds a knee in register is not an analogy between the heavens and a hinge. **It is one address read at two scales**, which is the whole of what the Universal Force of Time means by a T-value.

### 3.2 Three-quarters and four-thirds

The water that saturates cartilage is not loose water. It is held, structured, in the lattice — the T-medium — and the Universal Force of Time gives that medium its own index, the 4/3 of water. Put the two numbers side by side:

**saturation × index = 3/4 × 4/3 = 1**

**WHAT EACH PART IS**

- 3/4 [$3/2^2$] — the share of the cartilage held as structured water
- 4/3 [$2^2/3$] — the refractive index of the structured-water medium
- the product is exactly one: the medium fills the lattice to the reciprocal of its own index

**WORKED EXAMPLE**

0.75 × 1.333333… = **1**. The cushion and the light-speed of the cushion are one number turned over.

The water is the cushion; the collagen is the loom that holds the cushion in register. Take away the water and the loom is loose; take away the loom and the water runs out. Each holds the other.

### 3.3 The thermal node

**$36.864\ °C = 2^9 \cdot 3^2 / 5^3 = 4608 / 125$**

**WHAT EACH PART IS**

- 36.864 °C — the body's one temperature in the Universal Force of Time, the node at which its chemistry sits on the lattice
- × 1000 = 36,864 = $2^{12} \cdot 3^2$ — the body-temperature node the book returns to (four times Venus's node, 9216)
- pure {2,3,5}, no π: a room on the lattice — a value whose power of π is even (here none) is a state, a thing that sits

**WORKED EXAMPLE**

4608 ÷ 125 = **36.864**. The proton's NMR frequency on the framework's values, 42,575,081.6066 Hz/T, ÷ 8 ÷ 36 × $(2\pi)^4$ × 16 lands on 36,864 exactly, the free decade aside.

Keep medium, lattice and temperature in tune and the joint is silent. Lose any one of them and it begins to fail. The four routes are the four ways that happens.

## 4. Four Routes, Four Corrections

The four routes are not rival theories. They are four real faces of one instrument going wrong: a cushion that drains; an address that is misread and frozen off the lattice; a carrier that falls out of the flow and crystallises; and — failing soonest of all — the lubrication and warmth that announce the trouble before the surface is gone.

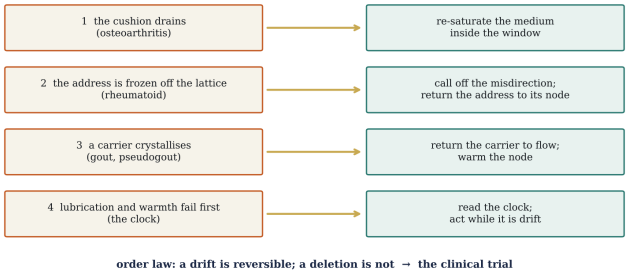



*Figure 2. The architecture of the paper. Each route by which the joint's register fails is paired, one to one, with the correction that realigns it. Every correction is aimed at the register, not at the symptom.*

Notice the shape of the corrections. Every one is aimed at the **register**, not at the symptom — not the swelling, not the crystal, not the worn surface, but the field that should have held all of them in order.

## 5. Route One — The Cushion Drains

**Osteoarthritis** is the commonest arthritis and the cruellest to live with. Over years of load the cartilage loses its water and its proteoglycans; the collagen mesh frays and splits; the surface roughens, thins and in places wears through. The bone underneath thickens and grows spurs at the joint's edge. It comes first in the joints that carry weight — knees, hips, the lower spine — and in the hands, where bony swellings at the finger joints (Heberden's and Bouchard's nodes) mark the lattice giving way. Pain comes with use and eases with rest; stiffness after rest is short, usually under half an hour.

In Universal Force of Time terms this is **erosion**: the structured-water medium drains and the collagen lattice frays, until the joint can no longer equalise the press of the body's weight. It is the same class of failure as the lung in chronic obstructive disease, or the inner ear in age-related deafness — a register worn away, not poisoned and not attacked.

And like those, it has a window. While the loss is the medium draining and not the lattice gone, the register can in principle be re-saturated and re-tuned. Once the cartilage itself has worn through, its nodes are deleted and that surface is past recall. **Osteoarthritis is caught in the medium, not in the bone.** By the time it is plain on an X-ray, the easy years are spent.

### Correction 1 — re-saturate the medium inside the reversible window

If the failure is a cushion draining, the first correction is to put the cushion back before the loom is gone: re-saturate and re-tune the cartilage's T-medium while the loss is still the medium and not the lattice. The target is the register, not the worn surface.

Some of the most careful laboratory work being done today is already feeling its way toward the same door. In 2025 a group reported in *Science* that aged, worn joint cartilage can be made to regrow — not by importing new stem cells, but by returning the joint's own existing cells to a younger working state, so that they take up making sound cartilage again [8]. We make no claim on that work and add nothing to it. We note only that its shape is the shape the Universal Force of Time predicts: a joint that has worn has not been deleted; its register has drifted, and the cells that were always present can be returned to their proper address. The specific modalities, sequences and durations of Correction 1 are held in the Foundation's reference, not prescribed here.

## 6. Route Two — The Address Is Frozen Off the Lattice

**Rheumatoid arthritis** is a different failure wearing similar pain. The cartilage is not worn by load; it is attacked from within. The synovial lining swells and thickens, fills with immune cells, and grows over the cartilage like a creeping film, eating into cartilage and bone at the joint's margin. It strikes the small joints of the hands and feet first. Its stiffness is worst in the morning and lasts an hour or more before it eases.

### 6.1 What the immune system misreads

In the Universal Force of Time the immune system is the body's proof-reader of T-addresses: every cell and protein it meets it checks against the address that says *this belongs to you*. In rheumatoid arthritis the proof-reader misreads the address of the joint and turns on it. This is not a new mechanism in the framework. It is the same misdirection that destroys the insulin-making cells in Type-1 diabetes and strips the nerve sheath in multiple sclerosis.

Medicine has measured something that fits this exactly. Most people with rheumatoid arthritis carry antibodies against **citrullinated** proteins. Citrullination is a small chemical change in which one building block of a protein, arginine, is

converted into another, citrulline. The protein is the same protein; its chemical address has been altered. The immune system then attacks the altered address — and, having learned it, attacks every place it is written. These antibodies can be found in the blood years before the first swollen joint. **In the language of this paper, the address drifts before the attack begins, and the attack is aimed at the drift.**

## 6.2 Why both sides at once

Doctors have always known that rheumatoid arthritis strikes in mirror image — both hands, both wrists, both knees, together — and there has never been a reason given. The Universal Force of Time gives one in a line: **the immune system is not attacking a place; it is attacking an address**, and the same T-address is written on the left side of the body and the right. Strike the address and both copies fall together. Osteoarthritis, which is wear, follows the load and is often one-sided; rheumatoid arthritis, which is an attack on a coordinate, is symmetric. The symmetry was never a curiosity. It is the fingerprint of an attack aimed at a coordinate, not a location.

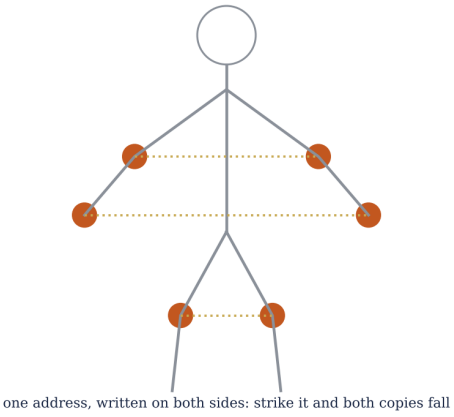



*Figure 3. One address written twice. The same T-address is instantiated on both sides of the body, so an attack aimed at the address strikes the mirror joints together.*

## 6.3 The freeze — a value locked off the lattice

Once the attack inflames the lining, the tissue scars, and the scar locks. The collagen value is frozen a hair's breadth off the {2,3,5,π} lattice, into the empty gap between nodes. Here the theory is exact. The lattice is {2,3,5,π} and nothing else, and a value that cannot be written in twos, threes and fives is not a lattice address. So an off-lattice reading at a locked crosslink is not a node the tissue has climbed onto. **It is the fingerprint of a value that has drifted off its node and cannot return** — a knot the ordinary {2,3,5} repair pathways cannot untie, because they reach only values still on the lattice. The same off-lattice freeze seats the fibrous plaque of Peyronie's disease; in rheumatoid arthritis it seats in the joint.

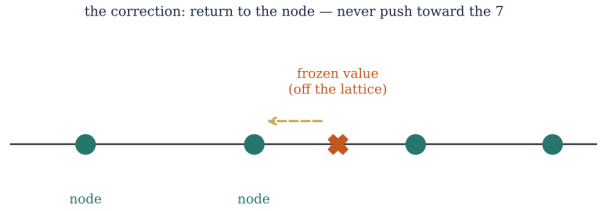



*Figure 4. On the lattice and off it. A healthy collagen value sits on a node; the locked rheumatoid value is frozen in the gap. The correction is a return to the node — never a push further into the gap.*

## Correction 2 — call off the misdirection, and return the address to its node

If the disease is an address misread and then frozen off the lattice, the correction has two beats, in this order. First, call off the misdirection — stop the proof-reader attacking the joint's own coordinate, the same correction the framework reaches for in Type-1 diabetes. Second, while the window is still open, return the frozen collagen value to its {2,3,5,π} node before the scar locks it for good. An off-lattice freeze cannot be dissolved by ordinary biochemical means, which is why advanced disease must be addressed at the level of the field. The field-level specifics are held in the Foundation's reference, not prescribed here.

## 7. Route Three — A Carrier Crystallises

**Gout** announces itself in a night: a single joint, most often the base of the big toe, swollen, red and too painful to bear a bedsheet by morning. It is not wear and not an immune mistake. It is a **precipitation** — uric acid, carried dissolved in the blood as urate, falling out of solution and forming needle-shaped crystals inside the joint. The immune system then reacts violently to the crystals.

In T-terms the urate has dropped off register, and it settles where the field is thinnest and coldest. The great toe is the most distal joint in the body, the furthest from the heart, and among the coolest. Medicine has measured the rest. How much urate stays dissolved depends on temperature:

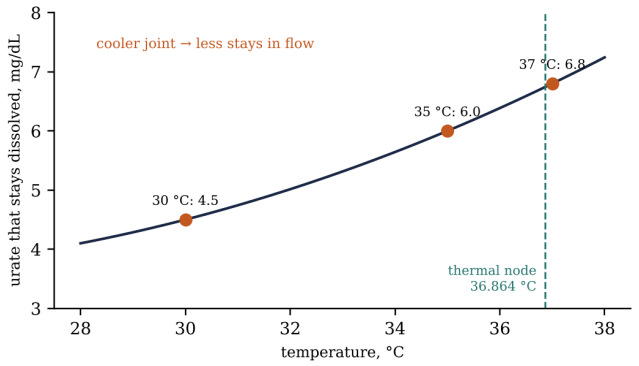



*Figure 5. How much urate stays dissolved, by temperature (measured: 6.8 mg/dL at 37 °C, 6.0 at 35 °C, 4.5 at 30 °C [10]). A cooler joint holds less in flow, so the carrier falls out first at the coldest node.*

**cooling a joint from 37 °C to 30 °C: 6.8 → 4.5 mg/dL**

**WHAT EACH PART IS**

- urate solubility at 37 °C — about 6.8 mg/dL (measured)
- at 30 °C — about 4.5 mg/dL (measured)
- the joint at 30 °C keeps in flow only about two-thirds of what the core keeps

**WORKED EXAMPLE**

4.5 ÷ 6.8 = **0.66**: a blood level that is safely dissolved at the body's core is already past the edge in a toe a few degrees cooler — the coldest node is the first place the carrier falls out.

That is why gout chooses the great toe, and why attacks so often begin at night, when the feet are coolest and still. **The crystal is not the disease so much as its sediment**, laid down at the bottom of the body's slowest current.

**Pseudogout** is the same event in a different salt: calcium pyrophosphate in place of urate, settling by preference in the larger, cooler reservoirs, the knee above all. Two crystals, one mechanism — a quantity carried in the field dropping off register at the coldest node it can reach.

### Correction 3 — return the carrier to flow, and warm the node

Because the crystal is a carrier that has fallen off register at the coldest node, the correction is to put it back into the current and raise the node to where things stay dissolved: return the urate or pyrophosphate to flow, and warm the node back toward 36.864 °C, so the sediment has no place to settle. The target is the field that should have carried the quantity, not the crystal it left behind. The specifics are held in the Foundation's reference.

## 8. Route Four — Lubrication and Warmth Fail First

The fourth route is not a fourth disease. **It is the clock the other three run against, and it fails soonest.**

The Universal Force of Time reads synovial fluid as the joint's liquid T-medium — the same structured water, index 4/3, that saturates the cartilage, here pooled as a free reservoir. Its changing behaviour with load — thick at rest, thin in fast motion, springy under impact — is the medium holding register against pressure: a T_P fluid that answers force by tuning to it. When the medium degrades — thinned by inflammation, diluted, drained — the glide is lost *before* the cartilage is. That is why a joint can grind and ache while its surfaces still look intact on a scan: the lubrication register fails first and the structural one after.

The warmth tells the same time. An inflamed joint is hot, swollen, red and painful — the four signs medicine has named since Roman times. In the Universal Force of Time they are one event: **a pressure register that has left 36.864 °C**. Heat is T in another guise, and the warmth of an angry joint is the register running off its node. The temperature is therefore both diagnostic and directional.

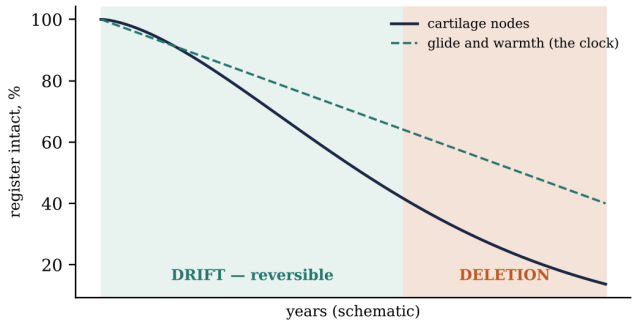



*Figure 6. The clock. The glide and the warmth leave their node while the cartilage is still largely intact — the drift window, when the register can be returned. Once the cartilage nodes are deleted, that joint is past recall.*

### Correction 4 — read the clock, and act while it is drift

Because lubrication and warmth fail before the surface does, they are the instrument by which the other three routes are caught in time: read the joint at its thermal and lubrication register — the lost glide, the departure from 36.864 °C — and treat that reading as the call to act while the failure is still a drift. Restoring the synovial medium is the same correction as re-saturating the cartilage, reached through the free reservoir.

## 9. The Order Law

The four corrections are not interchangeable, and they are not free of time. The governing principle is plain: **each early failure is a drift, and a drift is reversible while a deletion is not**. Catch the drift early — while it is still the medium draining and not the lattice gone, the address loosened and not yet scar-locked, the carrier slowed and not yet crystallised — and the register can in principle be returned home.

Within rheumatoid disease the order is fixed: the attack must be called off *before* the address is returned to its node, because an address returned while the proof-reader is still attacking it is attacked again. Across all four routes the order is fixed too: read the clock first, then aim every correction at the register while it can still be tuned.

### 9.1 One register across both families

The rest of the Universal Force of Time medical framework has found two root-cause families. One is **drift off the lattice** — erosion and precipitation, values sliding off their nodes. The other is **address misdirection** — the proof-reader turning on a clean address it should protect. Arthritis is the one illness that spans both at once. Osteoarthritis and the crystals are drift; rheumatoid arthritis is misdirection. That one joint can fail by either road, on one register, is the framework showing again that the lines medicine draws between diseases are lines in the reading, not in the thing.

### 9.2 The degree-circle in the skeleton

**about 360 joints = $2^3 \cdot 3^2 \cdot 5$**

**WHAT EACH PART IS**

- about 360 — the most often quoted count of joints in an adult body (counts vary with how joints are defined)
- $2^3 \cdot 3^2 \cdot 5$ — the degree-circle: the same number that rings a compass

**WORKED EXAMPLE**

$8 \times 9 \times 5 =$ **360**. The load-equalising body is built on the circle.

## 10. Reading a Joint: What the Clinic Already Measures

Nothing in this paper asks a clinic to measure anything new in order to begin. The tests already in daily use read the register, once it is known what they are reading. Each is a diagnostic marker — it identifies the state of the node — and none is a prescription.

| what is measured | what it reads in the register |
|---|---|
| warmth of the joint (by hand, by thermal camera) | the register's departure from 36.864 °C — the clock of route 4 |
| morning stiffness: under half an hour, or an hour and more | wear (route 1) against an address frozen at rest (route 2) |
| one side, or both sides together | load (route 1) against an address written twice (route 2) |
| antibodies to citrullinated proteins | the altered address the proof-reader has learned (route 2), years early |
| crystals in the fluid under polarised light | the carrier off register: needles of urate, rhomboids of pyrophosphate (route 3) |
| the thickness and stringiness of the fluid | the state of the free T-medium (route 4) |
| the gap between bones on an X-ray | how much of the cartilage lattice is left — drift or deletion (route 1) |

Read in this order, the table is the order law in practice. The first four rows can turn positive while the joint is still a drift: the warmth, the stiffness, the

symmetry and the antibodies all come before the surface is gone. The last row is the one that tells you the window has closed. A joint read only by its X-ray is a joint read too late.

### 10.1 Why arthritis rises with age and with weight

Every route runs against time. The medium is pumped in and out of the cartilage with each step, and each pump is a small exchange of T; a register worked for longer and under more load has had more exchanges in which to drift. So osteoarthritis rises with age and with weight, and comes first in the joints that carry the most — the knee more than the elbow, the hip more than the shoulder. Gout rises with the level of urate the blood carries, because the more of the carrier there is, the warmer a node can be and still be past its edge. Rheumatoid arthritis follows a different clock — an address learned by the proof-reader — and so it can begin at any age, in a joint that has never been overworked.

## 11. The Wider Family of Arthritis

Medicine names more than a hundred kinds of arthritis. The commonest ten fall into the register's three ways of failing:

| arthritis | the register fails by | signature |
|---|---|---|
| osteoarthritis | erosion — medium drains, lattice frays | weight-bearing; often one-sided |
| rheumatoid | address misdirection → off-lattice freeze | symmetric; altered (citrullinated) address |
| gout | urate falls off register | coldest distal node — the great toe |
| pseudogout | pyrophosphate falls off register | cool reservoir — the knee |
| psoriatic | misdirection with the skin register | asymmetric; nails and end joints |
| ankylosing spondylitis | axial register freezes | the spine fuses, ascending |
| juvenile idiopathic | early misdirection | register set adrift in growth |
| septic | an outside load floods the register | one hot joint, sudden |
| reactive | passing misdirection after infection | drifts and returns |
| lupus arthritis | body-wide misdirection | symmetric, not eroding |

## 12. What This Paper Claims, and What It Does Not

It claims that the joint is one register — the load-equalising T_P register — and that the common arthritides are four routes by which that one register fails. It claims that the joint's numbers sit on the lattice: the collagen node of 640 Å and its 864 Å ceiling, the three-quarters saturation and its reciprocal index, the 36.864 °C node, the circle of about 360 joints. It reads three measured facts as the theory requires: the altered address of rheumatoid disease, its mirror symmetry, and the fall of urate solubility with temperature.

Cartilage carries the same pair as the companion paper on liver fibrosis: 640 Å [$2^7 \cdot 5$] is the healthy collagen node and 864 Å [$2^5 \cdot 3^3$] its stability ceiling. It prescribes nothing. The corrections are stated as principles; where the framework points to a corrective, its values are printed with their chains, and how any light, sound or field is given is held in the Foundation's clinical reference, pending trials.

## 13. The Resolution — the Clinical Trial

We have acknowledged the illness — the quiet machine that carries us until it fails. We have read the problem as four routes by which one register fails: the cushion drains, the address is frozen off the lattice, a carrier crystallises at the coldest node, and the lubrication and warmth fail first as the clock on all of it. We have paired each with the correction that would realign it, and bound them with the order law: a drift is reversible; a deletion is not.

Because each failure is, in its early form, a drift rather than a destruction, it is in principle a correctable fault. The only honest conclusion is the one the whole structure points to: **test it**. The corrections are stated as principles because the next step is not to prescribe them to a reader but to put them to a clinical trial — to learn which roads carry the repair, and in what order. Catch the drift while the register can still be tuned, and time can be returned to its place in the smallest hinges that carry us.

## Propositions

**P-ARTH-1 — The joint is a pressure register.** A synovial joint is the body's load-equalising T_P register; its cartilage is a collagen lattice with its healthy node at 640 Å [$2^7 \cdot 5$] and its ceiling at 864 Å [$2^5 \cdot 3^3$], saturated about 3/4 with the structured-water T-medium; it is avascular and fed only through that medium.

**P-ARTH-2 — The cushion and its index are one number turned over.** Saturation 3/4 × medium index 4/3 = 1.

**P-ARTH-3 — The thermal node.** The joint's thermal address is 36.864 °C [$2^9 \cdot 3^2/5^3$]; heat, swelling and redness are the register running off it.

**P-ARTH-4 — Route 1 — the cushion drains.** Osteoarthritis is erosion of the register — the medium drains and the collagen lattice frays; reversible in principle before cartilage-node deletion. Correction 1: re-saturate the medium inside the window.

**P-ARTH-5 — Route 2 — the address is misread.** Rheumatoid arthritis begins as address misdirection (the Type-1 diabetes and MS family); the measured attack on citrullinated proteins is an attack on an altered address, present years before the first swollen joint.

**P-ARTH-6 — The mirror.** The bilateral symmetry of rheumatoid arthritis is the signature of an attack on one address written on both sides of the body.

**P-ARTH-7 — The freeze.** The scarred collagen value is frozen off the {2,3,5,π} lattice; an off-lattice reading at a locked crosslink is the fingerprint of that drift, never a node. Correction 2: call off the misdirection, then return the address to its node.

**P-ARTH-8 — Route 3 — a carrier crystallises.** Gout is urate falling off register at the coldest distal node; measured solubility falls from about 6.8 mg/dL at 37 °C to 4.5 at 30 °C. Pseudogout is the same in pyrophosphate. Correction 3: return the carrier to flow and warm the node toward 36.864 °C.

**P-ARTH-9 — Route 4 — the clock.** Synovial fluid is the free T-medium; the lubrication register fails before the structural one. Correction 4: read the thermal and lubrication register and act while it is drift.

**P-ARTH-10 — The order law.** A drift is reversible; a deletion is not. Misdirection is called off before the address is returned; the clock is read before any correction.

**P-ARTH-11 — Two families, one register; the circle.** Arthritis spans both root-cause families, drift and misdirection, on one register; the body's about 360 joints [$2^3 \cdot 3^2 \cdot 5$] are the degree-circle. How any corrective is given is held in the Foundation's clinical reference, pending trials.

## References

[1] Daubney, S. *The Unification of the Universal Force of Time* (manuscript, 2026), ch. 151 "Arthritis"; the medical framework; the day and the 864.
[2] GBD 2021 Osteoarthritis Collaborators, Global, regional, and national burden of osteoarthritis, 1990–2020, *Lancet Rheumatol.* 5, e508 (2023).
[3] GBD 2021 Gout Collaborators, Global, regional, and national burden of gout, 1990–2020, *Lancet Rheumatol.* 6, e507 (2024).
[4] World Health Organization, Rheumatoid arthritis fact sheet (2023).
[5] D. L. Scott, F. Wolfe, T. W. J. Huizinga, Rheumatoid arthritis, *Lancet* 376, 1094 (2010).
[6] D. J. Hunter, D. T. Felson, Osteoarthritis, *BMJ* 332, 639 (2006).
[7] N. Dalbeth, T. R. Merriman, L. K. Stamp, Gout, *Lancet* 388, 2039 (2016).
[8] P. Agarwal, S. Su, S. Ancel et al., Inhibition of 15-hydroxyprostaglandin dehydrogenase promotes cartilage regeneration, *Science* (2025), doi:10.1126/science.adx6649.
[9] G. A. Schellekens et al., Citrulline is an essential constituent of antigenic determinants recognized by rheumatoid arthritis-specific autoantibodies, *J. Clin. Invest.* 101, 273 (1998).
[10] J. N. Loeb, The influence of temperature on the solubility of monosodium urate, *Arthritis Rheum.* 15, 189 (1972).
[11] A. J. Sophia Fox, A. Bedi, S. A. Rodeo, The basic science of articular cartilage, *Sports Health* 1, 461 (2009).
[12] Daubney, S. *Peyronie's Disease in the Force of Time*; *Liver Fibrosis in the Universal Force of Time*, Rev 6, The Daubney Foundation (2026).

## Appendix A — Every Number in One Table

| feature | value | lattice address | read |
|---|---|---|---|
| collagen node | 640 Å | $2^7 \cdot 5$ | the healthy node, as in the liver |
| collagen ceiling | 864 Å | $2^5 \cdot 3^3$ | the master pivot — times the day |
| the day | 86,400 s | $2^7 \cdot 3^3 \cdot 5^2$ | 864 × 100 |
| water in cartilage | about 3/4 | $3/2^2$ | the saturation |
| medium index | 4/3 | $2^2/3$ | saturation × index = 1 |
| thermal node | 36.864 °C | $2^9 \cdot 3^2/5^3 = 4608/125$ | the body's one temperature |
| body-temperature node | 36,864 | $2^{12} \cdot 3^2$ | × 1000; the proton NMR chain |
| joints | about 360 | $2^3 \cdot 3^2 \cdot 5$ | the degree-circle |
| urate at 37 / 35 / 30 °C | 6.8 / 6.0 / 4.5 mg/dL | measured | the coldest node |
| locked crosslink | a value off the lattice | not a lattice address | the drift fingerprint, never a node |

## A Note on the Numbers

*Throughout this paper a quantity is given first as the plain value a clinician would measure — a temperature, a spacing, a count of joints, an index — and only then, in brackets, as its place on the {2,3,5,π} lattice. The lattice form is not a unit and carries no powers of ten of its own: a T-value is one number that wears different clothes in different registers, appearing as a spacing in cartilage here, a span of time in the heavens there, a mass in a nucleus somewhere else. That is why the 864 that spaces the collagen of a knee is the 864 that times the day. We do not solve to a power in a single dimension. The bracket is the address; the physical number is the thing you can hold. And when a value has no {2,3,5,π} address at all — when it cannot be written in twos, threes and fives — that is not a number on the lattice but a number off it: the signature of a value that has drifted from its node.*

*The Daubney Foundation is in ongoing discussions with medical establishments regarding clinical trials of Universal Force of Time solutions to the conditions described in this paper. Any institution or researcher wishing to put themselves forward for participation in these trials is invited to make themselves known through: thedaubneyfoundation@gmail.com*

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