

Star Trek Adventures - MEDICAL REFERENCE GUIDE

Medicine is an inherently complex field, and Starfleet medical officers have access to a wealth of medical equipment. Some of it is portable and can be taken along on away team missions, while much of it can only be used in a hospital or sickbay. The following are some of the more important and common medical devices that have not previously been described, all granting a particular Advantage or rule with its use. Common equipment that is part of a medkit, which has no Opportunity Cost, may not have a unique benefit.

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ALPHA-WAVE INDUCER

(Opportunity Cost 1 per willing subject and Escalation 1 per unwilling subject)

An alpha-wave inducer was a substance or device used as a [sleep](#) aid. It functioned by easing the introduction of [alpha waves](#) into the [brain](#). It was only meant for occasional use.

In [2369](#), [Ty Kajada](#) used an alpha-wave inducer while on [Deep Space 9](#) when she had trouble sleeping.

- *Use of this item against a subject consent is expressly forbidden under the Starfleet Medical Protocols unless as part of a prescribed medical procedure. When using this item the target subject must make a **Fitness + Medicine Df X** (where **X** is the number of intervals exposed to the item) to resist Fatigue. Denobulans are unaffected by this as they do not need to sleep except when hibernating.*

BASE PAIR SEQUENCER

(Opportunity Cost 1)

A base pair sequencer is a [medical](#) tool used aboard [Federation starships](#) to study and diagnose problems relating to DNA and Base Pairs.

- *Using a Base Pair Sequencer: a doctor performing analysis on DNA to cure or diagnose a DNA related condition ignores any Difficulty increase due to an unknown alien species*

BIOBED

Almost everyone who has ever been to a hospital has experience with this ubiquitous device, used in hospitals and sickbays all across the Federation – all beds and examination tables in a sickbay are biobeds. This comfortable bed is equipped with dozens of medical and biological sensors that continuously scan a patient lying on it, providing both immediate data and a record of the entire time the patient has been on the diagnostic bed. Biobeds are the more advanced successor to the medical diagnostic beds of the 23rd century, and like that earlier version, biobeds are designed to connect to a surgical support frame that fits on top of the biobed and provides a sterifield, a cardiostimulator, and other devices useful for performing delicate or potentially risky surgeries. Biobeds can also create force fields to restrain patients.

- *Using a biobed: a doctor performing surgery (**Control + Medicine Df2**) to heal a Lethal Injury ignores any Difficulty increase due to a Player Character spending Determination to ignore the Injury's effects, or any Injury-related Complications.*

BLOOD GAS INFUSER

This small device is attached to the patient to provide their body with oxygen when they have temporary breathing problems. It is normally attached to the patient's head in order to prioritize providing oxygen to their brain, and can only be used in a sickbay or hospital, since the device connects to a larger unit that oxygenates the patient's blood. Blood gas infusers are designed for short-term operation and cannot safely be used for more than a few hours at a time.

- *This device allows a doctor to temporarily keep a patient alive, even if the patient cannot breathe normally.*

BONE REGENERATOR

(Opportunity Cost 1)

Also called a bone-knitting laser or an osteo-regenerator, this sturdy handheld device causes the bones it is used on to rapidly heal, allowing a medical officer to repair a fracture in a few minutes. This device is a standard component of any Starfleet medical or emergency kit.

- *This device reduces the Difficulty of all Medicine rolls involving broken bones by 2, and also allows doctors to completely repair broken bones as part of a First Aid Task (**Daring + Medicine Df 1**).*

CARDIOSTIMULATOR

As the name suggests, this medical device is used to both restart stopped hearts, and to regulate and stabilize irregular heartbeats. Medical officers operate this small hand-held device by applying it to the patient's chest, much like late 20th century electronic defibrillator paddles. However, cardiostimulators are safer, less painful, and far more reliable.

- *Characters attempting First Aid (**Daring + Medicine Df 1**) on another character from a Lethal Injury in combat may reroll a d20.*

CORTICAL SCANNER

This small handheld device performs the same functions as a neurocortical monitor (core rulebook, p.197), except that it is designed to be used by a physician to make short-term scans. In addition to recording the activity of the subject's brain, medical officers can use this device to modify the patient's brainwaves, inducing sleep or wakefulness, and help subjects more rapidly regain consciousness after a blow to the head or after falling into a coma.

- *Doctors may use this device to make a First Aid Task (**Daring + Medicine Df 1**) to help someone who has been drugged, is very deeply asleep, or is in a coma wake up easily and rapidly.*

CORTICAL STIMULATOR

(Opportunity Cost 1)

Designed to be attached to the head of humanoids, this small device uses electrical impulses to attempt to normalize and even restart the neural activity of sentient beings. It is commonly used to treat seizures, hallucinations, and similar short-term neurological problems and to attempt to awaken patients who are in comas, but physicians can also use it in life-and-death situations to attempt to restart the brainwaves of a humanoid who has recently died. When using this device to revive the dead, time is of the essence. The longer a humanoid's neural activity has ceased, the greater the chance that they cannot be revived. Also, any traumatic injuries or other problems that caused the patient's death must be repaired simultaneously, or this device will not be able to keep the patient's brainwaves going.

- *Using a cortical stimulator on a patient allows doctors to make a Medicine roll to attempt to revive patients who have died within the last 5 minutes. Doctors can also use this device to reduce the Difficulty of any attempt to revive patients who are in a coma or otherwise unconscious by 1.*

AUGMENTED ABILITY

(PCs - At GM Discretion, no Cost)

You gain the Augment Trait.

- *Choose a single Attribute when this Talent is selected. You gain the Extraordinary Attribute 1 special rule (CRB, pg312) for the chosen Attribute. When the character uses this ability, they increase their Complication Range by 2 for that Task. This Talent may be selected multiple times, once for each Attribute.*

NEURAL INTERFACE

(PCs - At GM Discretion, no Cost)

The character has had a cybernetic device implanted directly into their brain, allowing them to interface with computers and similar technologies with their thoughts.

- *Initiating or breaking the link between their minds and a computer system takes a Minor Action, and while they are connected they may reroll the d20 gained from using ship's Systems. However, any time the ship suffers a Breach the character also suffers 3 CD of Stress.*

PHYSICAL ENHANCEMENT

(PCs - At GM Discretion, no Cost)

The character has some portion of their body replaced by an advanced piece of bio-mechanical hardware. This device functions exactly like its organic counterpart.

- *This device functions exactly like its organic counterpart; however, before attempting a Task, the Character may choose to take 3 CD Stress to add a single additional d20 to their dice pool. Any Injuries caused by this damage is resolved after the effects of the Task. Multiple dice may be bought in this way, but the damage is added together (so, buying two dice inflicts 6 CD damage, and buying 3 dice inflicts 9 CD damage). These dice count towards the normal limit of bonus d20s purchased.*

SENSORY REPLACEMENT

(PCs - At GM Discretion, no Cost)

Due to physical injury or irreparable birth defect, the character has been forced to adopt a cybernetic device that replaces one of their sensory functions – most commonly sight or hearing.

The character gains the Artificial Sense Trait, which can be used normally.

- *When the character is using the Obtain Information Momentum spend, they may ask questions or be given information not normally available with organic senses.*

NEURAL IMPLANT

(Opportunity Cost 2, Escalation 2)

A cranial implant was a device that was installed directly into an individual's [brain](#). Such devices were used by the Breen, the Cardassians and the Borg amongst other species.

BREEN CORTICAL IMPLANT

Used extensively by the Breen Confederacy to interrogate prisoners. The Breen employed a type of cortical implant to probe the minds of prisoners, with unpleasant mental and physical side effects. Repeated usage may result in short-term damage to the [brain](#), such as a [concussion](#) or temporary [coma](#).

These devices were used to interrogate Worf and Ezri Dax in late 2375.

· *When used these items inhibit production of endorphins in humanoids and inflict pain through surges of electrical energy. When used the bearer of this item increases the difficulty of any test to resist Interrogation or Torture by 2. Additionally for each such failed test roll 2CD. The bearer suffers 2 CD (Piercing 1) damage.*

CARDASSIAN CRANIAL IMPLANT

When authorized by the head of the [Obsidian Order](#), operatives (such as [Elim Garak](#)) were fitted with a cranial implant that stimulated the production of [endorphins](#), allowing them to resist [torture](#).

Garak created a control for his implant and used it to relieve the pain of being exiled to [Deep Space 9](#). After continuous use over a two-year period, his body became dependent on the higher level of endorphins, so that when the implant malfunctioned in late [2370](#), it nearly killed him. In particular, the malfunctioning of the implant damaged his [leukocytes](#) and caused a build up of [toxins](#) in his [lymphatic system](#). [Doctor Julian Bashir](#) was able to synthesize Cardassian-compatible leukocytes to replace Garak's damaged ones after receiving information on Cardassian [biochemistry](#) with assistance from [Enabran Tain](#), who had been the head of the Obsidian Order at the time Garak received his implant.

· *When activated this item increases Endorphin production in the [Pituitary Gland](#) and [Hypothalamus](#). As a consequence the bearer of the Cranial Implant may reduce the Difficulty to resist any interrogation, torture or starvation tests by 1. Additionally, the bearer may reduce the difficulty by a further 1 but to do so they must roll 1 CD. If an Effect is rolled the bearer suffers 2 CD (Piercing 1) damage.*

BORG CORTICAL NODE

[Borg drones](#) possessed a variety of cranial implants. In [2374](#), [Captain Kathryn Janeway](#) accessed [Seven of Nine's](#) cranial implant with a [microfilament](#) to activate her [Borg bioelectric field](#), enabling her to escape a [cell](#) on the [USS Dauntless](#).

This item links the bearer to the Borg Collective and is the singular most important of all Borg implants. Located in the right eye brow it serves to control all of a drones other cybernetic implants. If a cortical node malfunctioned, the implants would fail and be rejected, killing the drone.

Its technology is too advanced to attempt any form of repair and replacement nodes are incapable of being replaicted. Within the Collective if a Cortical implant fails it is replaced entirely.

One of the Borg drone's cranial implants was an [interplexing beacon](#). In [2375](#), Seven of Nine received a set of phase corrections through this cranial implant during [USS Voyager's quantum slipstream](#) flight, which collapsed the slipstream and saved Voyager from destruction. The message had been sent by a future [Harry Kim](#), from an alternate timeline.

This item links the bearer to the Borg Collective and allows them to hear/sense the Borg Collective and for the Borg Collective to locate them. The bearer gains:-

- 1. Regenerative Nanites - Reprogrammed Borg molecular machines remain in your bloodstream, healing your wounds and curing your illnesses, but continually attempting to reactivate dormant Borg implants. When you avoid an Injury by adding Threat, you also regain 3 Stress.*
- 2. Machine 1 (CRB pg.306)*

DELTA WAVE INDUCER

(Opportunity 1 per subject)

A delta-wave inducer, also known as a Neural Stabilizer, was a device used to induce [delta waves](#) to appear during an [operation](#) to keep the [patient asleep](#); it also increased the body's natural [endorphin](#) production to help accelerate the healing process.

In [2370](#), Bashir used a delta wave inducer on [Jadzia Dax](#) during the operation to remove the [Dax symbiont](#) and place it in its new host, [Verad](#).

- *This device allows a trained physician to ignore the additional Difficulty arising from 1 Injury related Complication a patient is suffering. It also reduces convalescence time at GMs discretion.*

DETRONAL SCANNER

(Opportunity 1)

The advances in molecular and atomic scanning as well as computing power allowed the development of hand-held genetic analysis devices such as the detronal scanner.

- *This device allows a trained physician to scan the skin and deeper layers of tissue of a humanoid and perform an analysis of the patient's genome. If the patient is of a known and previously studied species, the device can also provide analysis of any genetic drift or damage due to external sources.*

DNA ACQUISITION SENSOR

A DNA acquisition sensor was actually a component of a [transporter](#) that locked onto an individual's [DNA](#).

NEURAL CALIPER

This small, exceedingly safe device is the 24th century's answer to safe surgical anesthesia. When placed on the patient's forehead and activated, it causes the patient to rapidly lose consciousness, permitting surgery and other medical procedures to be safely and painlessly performed.

Once deactivated, it also allows patients to awaken rapidly and with minimal disorientation.

- *This is a standard medical device that provides no special benefits, but it can be used to safely render unwilling targets unconscious by successfully grappling them and then succeeding at a Medicine Task with a Difficulty of 1 to apply the device. If someone else has successfully grappled the target, using this device is a Task with a Difficulty of 0.*

NEURAL PAD

This unusual device connects the nervous systems of two humanoids. In the event that some drug, illness, or injury impairs a patient's nervous system in a life-threatening fashion, a neural pad allows the physician to temporarily stabilize this patient until they can be moved to a hospital or sickbay. A physician connects part of this device to the base of the patient's skull and the other to the base of the skull of a healthy individual. Then, they connect both devices to a

medical tricorder with cables. Once operational, a neural pad allows the healthy individual's nervous system to boost and regulate patient's neural activity. This device is generally sufficient to maintain the patient's autonomic nervous system for enough time for them to be safely moved to a treatment facility where longer-term solutions can be utilized. Use of a neural pad normally has little risk, but can potentially be dangerous if used on an unfamiliar species, due to the possibility of some form of negative neural feedback.

- *Physicians who use this device when attempting to stabilize seriously ill or injured patients, so they can survive transport to a hospital or sickbay may roll one additional d20 on their First Aid Task.*

NEUROCORTICAL MONITOR

(Opportunity 1)

The neurocortical monitor is worn on a humanoid's neck and resembles a small disc with pulsing lights. Before the invention of the neurocortical monitor, long-term data collection and monitoring of a patient exhibiting signs of neurological damage or trauma had to be undertaken in controlled environments in sickbays and major hospitals. The introduction of the monitor allowed doctors to collect information about the patient's neurological condition in real time in everyday circumstances where certain symptoms may present more often.

- *Use of the neurocortical monitor allows a patient undergoing observation to continue to perform normal duties, lack of this device means the patient must remain isolated in sick bay and unable to perform any normal ship functions.*

PHEROMONIC SENSOR

(Opportunity Cost 1 per bomb)

Not a medical item at all. The pheromonic sensor was a type of [sensor](#) commonly used on [explosive](#) devices. They were triggered when a particular individual or [species](#) came within range.

[Ferengi locator bombs](#) use pheromonic sensors to lock onto their target, and [Flaxian assassins](#) were known to favor pheromonic sensors.

In [2371](#), [Elim Garak](#) used a pheromonic sensor to trigger a [bomb](#) in [his shop](#), thus implicating the Flaxian assassin [Retaya](#) on the station and instigating an investigation.

- *This device allows another piece of equipment or explosive to specifically target an individual or a species.*

PRESSOR FIELD

This device is available in every modern sickbay and hospital. It generates a weak force field that can be precisely calibrated and directed so that the force field applies pressure during surgery. It is often used to temporarily stop bleeding until a blood vessel can be repaired and in other situations where precise, gentle pressure is needed.

- *Physicians who use pressor fields during surgery may reroll 1d20.*

STASIS UNIT

(Opportunity Cost 1, Escalation 2)

Originally developed as a means to suspend animation in passengers on sub-light spacecraft, where journeys could take up to centuries, once warp drive was developed stasis units were primarily used to either keep critically ill or injured patients alive until they could be transported to treatment or, if all known treatments fail, to preserve the still living patient until a treatment for their illness could be developed. Using stasis units to transport critically ill or injured patients primarily occurs on remote outposts or small starships with limited or damaged medical facilities, both of which often contain stasis units for use by anyone who suffers from an injury or illness too serious for the limited local facilities to manage.

Danube-class runabouts and starships that are too small to accommodate a full sickbay are equipped with stasis units. Placing patients in stasis in the hope that a treatment will be discovered later is often a desperate attempt to avoid the patient's death, since it is only used after all possible treatments and procedures have already been tried. As a result, patients are typically only placed in stasis units when they are on the verge of death, and may well be too ill to survive any cure that is developed later. A typical stasis unit is a tube roughly a meter in diameter and slightly more than two meters long. While some are built into the facility they are located in, most are designed to be transported, while continuing to maintain their patient in stasis.

- *Lethally injured characters placed in stasis are stabilized until taken out of the unit.*

STERI-FIELD

This low powered force field is built into the structure of all modern sickbays and other medical facilities, where it is projected around patients undergoing surgery or other forms of invasive medical treatment that could pose a risk of infection. This field does not impede movement; instead it cleans everything passing through it, removing dirt, bacteria, viruses, and other

contaminants on the surfaces of physicians' skin as well as from their clothing and medical instruments.

· *This device provides no bonuses as it is a part of all standard surgical equipment. Failure to use a steri-field requires the physician to succeed at a Medicine Task with a Difficulty of 1 to avoid any chance of infection. Failure means that the patient must attempt a Fitness + Security Task with a Difficulty of 1 to avoid suffering 1 additional point of Stress due to infection.*

STYROLITE

(Opportunity Cost 1 per subject)

Styrolite was a hard, transparent substance occasionally used in [medicine](#) to secure highly contagious or infectious specimens for transport when [quarantine fields](#) alone are insufficient. The specimen was placed in [suspended animation](#) and encased in a [skin](#)-tight contoured layer of styrolite. Once encased, the specimen was effectively isolated from the surrounding environment. Styrolite was often used in conjunction with quarantine force fields as an added measure of redundancy.

There were different types of styrolite. Number 6 is one example.

During her time aboard the [USS Enterprise-D](#), [Doctor Katherine Pulaski](#) used styrolite to transport a [genetically-engineered Human male](#) aboard the [ship](#) for examination. With the assistance of [Chief Miles O'Brien](#), a [site-to-site transport](#) protocol was implemented wherein the styrolite [materialized](#) slightly ahead of the patient, thus ensuring consistent quarantine. In addition to this precaution, a level 10 quarantine field was employed until integrity of the styrolite was confirmed.

· *This substance can contain any known contagion or infection. Like Carbonite from Star Wars the patient is placed in a form of suspended animation and a physical barrier. It removes the Vector component of a pathogen or condition and sets the Virulence as 0 whilst a patient is within Styrolite. Must be used in conjunction with a level 10 Quarantine field.*

SUBDERMAL BIOPROBES

(Opportunity Cost 1 per person if it also has a homing beacon)

These devices are small sensors designed to be injected into living creatures. They record, and, if desired, can transmit detailed physiological data about the subject, and can also easily be modified to include a homing beacon that allows a starship to maintain a continuous transporter lock on the subject, and potentially beam up the subject the instant she suffers any injury or becomes sufficiently stressed.

Subdermal bioprobes can also be set to detect energy fields and environmental conditions in the subject's immediate vicinity and can be used to determine the precise modulation of any force fields the subject passes through.

· *This device allows a physician to remotely monitor a patient's condition. If equipped with a homing beacon, it also permits a transporter operator to maintain a continuous transporter lock on the subject, as long as nothing blocks the device's signal.*

TEMPORARY HOLOGRAPHIC ORGANS

(Opportunity Cost 1)

While rarely required, the function of missing or failing organs can be duplicated using the same holographic projector installed in sickbays to operate the EMH. These organs can precisely duplicate the function of almost any living organ for an indefinite period of time, but suffer from the serious drawback that the patient must remain immobile because the holographic projector cannot maintain the precise positioning necessary for the organs to function if the patient moves. Advances in holographic technology could potentially overcome this problem, but the patient would still be confined to sickbay or some other location with a holographic projector, such as a holodeck. Another downside of this technology is that it only functions if the patient's original organ or organs have been removed, since the holographic organ requires space inside the patient to exist. Despite these many drawbacks, holographic organs can allow badly injured patients to survive until functional organs can be repaired or grown or a mechanical substitute fabricated and transplanted into the patient.

· *If the physician is willing to temporarily remove the damaged or diseased organs, and the patient is willing to remain completely immobile, this device permits the doctor to keep any patient alive, regardless of the trauma or disease they are suffering from. This device cannot replace a patient's brain, but it can temporarily replace any other organ or set of organs.*

Common 24th Century Drugs

The Federation possesses a vast pharmacopeia of medicines. Some only work for a single species, but many function on most or all humanoids. However, detailed scans using a diagnostic bed or at least a medical tricorder are necessary to determine if a specific drug is likely to be safe or effective

when used on a member of a humanoid species that is not in Starfleet's medical databases. The following are some of the drugs most often used by Starfleet medical officers.

NEUROTRANSMITTERS

ADRENALINE

Adrenaline ($C_9H_{13}O_3N$), also known as epinephrine, was a hormone and neurotransmitter with powerful effects on the sympathetic nervous system.

As a drug, it was used to treat radiation poisoning. Although by 2267 it had been replaced in clinical use by hyronalin, an adrenaline serum was found to be effective in the treatment of an unknown radiation left over by particles originating from a comet that passed near Gamma Hydra IV. The radiation had caused an hyper-acceleration of the aging process.

In 2154, Doctor Phlox found that Kelby was suffering from dangerously high levels of adrenaline, brought on by pheromones from Orion slave girls.

In 2267, Leonard McCoy compared the growing imbalance of body functions within Spock to huge amounts of adrenaline constantly being pumped into the Human bloodstream. Later that year, during the USS Enterprise's visit to Gamma Hydra IV to check up on its colonists, it was discovered that they had all died of hyper-accelerated aging. Ensign Pavel Chekov discovered a dead body and it had startled him, causing adrenaline to be released into his system. The adrenaline protected him from the radiation sickness. McCoy realized the adrenaline connection and synthesized an adrenaline hypo shot for the rest of the infected crew.

In 2367, Doctor Beverly Crusher was trapped in a warp bubble in which her own thoughts created her reality. As crewmembers of the USS Enterprise-D began disappearing around her, she performed a medical exam on herself. The only abnormality she found was an elevation of adrenaline, but she considered this understandable, given her situation.

In 2373, Lieutenant Tuvok's adrenaline level rose by 113% when he first experienced an event that was thought to be a repressed memory but was actually caused by a memory virus.

In 2379, Dr. Crusher found that Deanna Troi's adrenaline levels were slightly elevated after a telepathic attack by the Reman Reman Viceroy.

ACETYLCHOLINE

Acetylcholine (C₇H₁₆NO₂) was a neurotransmitter found in the autonomic nervous system of most humanoid brains.

It played a role in promoting aggressive tendencies. The reduction of acetylcholine levels could help level off neurotransmitter levels and the stabilization of motor neurons.

When the crew of Enterprise NX-01 was possessed by Wisps, the possessed state was characterized by elevated acetylcholine levels in the autonomic nervous system. Spock performed an acetylcholine test on a huge spaceborne amoeba creature that destroyed the Gamma 7A system in 2268, although McCoy felt the test was botched.

As a choline compound, acetylcholine could be used to stabilize synapses in cases of nervous system collapse. However, it was not effective against the effects of an alien weapon that killed USS Voyager Ensign Ahni Jetal.

When acetylcholine absorption was stimulated, it increased tensile strength of the muscle tissue. This was done during a neuromuscular adaptation treatment. An increase of acetylcholine within the hippocampus could indicate that the person had accumulated memories. A thirteen percent increase would indicate an accumulation of two days' worth of memories.

When Neelix was resurrected with Borg nanoprobes in 2374, The Doctor reduced his acetylcholine levels in an attempt to stabilize his motor neurons.

BETA-ENDORPHINS

Beta-endorphin was an opioid peptide [neurotransmitter](#) found in the [neurons](#) of both the [central](#) and peripheral nervous system.

In [2375](#), [The Doctor](#) found that [Harry Kim](#)'s beta-endorphins were abnormally elevated following [sex](#) with [Derran Tal](#), and in consequence had no doubt Kim felt wonderful.

In [2377](#), The Doctor listed increased beta-endorphin production among the [physiological](#) responses that were present when one person had romantic feelings for another. This information was supplied to [Icheb](#), who was laboring under a misapprehension involving [B'Elanna Torres](#).

DOPAMINE

Dopamine is a [neurotransmitter](#) and [hormone](#) naturally produced in the [nervous system](#) and [adrenal glands](#) of the [Human](#) body. It affects the [heart](#) rate, [blood](#) pressure, locomotion, pleasure, and motivation.

In [2374](#), as part of an unethical experiment, [Alzen](#), a [Srivani](#) medical researcher, increased [Captain Kathryn Janeway](#)'s dopamine levels to test her "behavioral restraints".

In [2375](#), [The Doctor](#) discovered heightened dopamine levels when he conducted "routine examinations" of the [USS Voyager](#) crew while they were under the influence of the [telepathic pitcher plant](#), apparently caused by the powerful [neurogenic field](#) that it generated.

ENDORPHIN

Endorphins were nature's painkillers, produced in the [pituitary gland](#) and [hypothalamus](#) of all [humanoid](#) vertebrates. They regulated pain and hunger and were connected to the production of [sex hormones](#). The naturally occurring [neurochemical](#) endorphins were described as opiate [peptides](#) similar to the [drug morphine](#), which acted upon the [nervous system](#) to affect sensations of pain and pleasure.

The [Cardassian Obsidian Order](#) provided its operatives with [cranial implants](#) that stimulated the production of endorphins, thus allowing the wearer to resist [torture](#).

ISOBORAMINE

Isoboramine (also spelled as isoboromine) was a [neurotransmitter](#) in [Trill](#) physiology which regulated the connections between the host and the [symbiont](#). Low isoboramine levels were harmful and could be fatal to the host and/or symbiont, so if isoboramine levels dropped below 40%, then the symbiont was removed. This would kill the host, but any joined Trill would willingly sacrifice themselves in order to save their symbiont.

Official records at the [Trill Symbiosis Commission](#) stated that in [2285](#), when [Torias Dax](#) was in a shuttle accident, he was placed in a coma. He was left in a vegetative state until his isoboramine levels eventually fell below 40% and the symbiont had to be removed. In actuality, the symbiont had been transferred to [Joran Belar](#).

In [2371](#), [Jadzia Dax](#)'s isoboramine levels fell dangerously low when a chemical memory blocker was wearing off in the [Dax symbiont](#).

NOREPINEPHRINE

Norepinephrine (abbreviated norep) or noradrenaline was a [hormone](#) and [neurotransmitter](#) in the [humanoid central nervous system](#). As a stress hormone, it affected the part of the [brain](#) that controlled alertness as well as the fight-or-flight response. Along with [epinephrine](#) or [adrenaline](#), it increased [heart](#) rate and blood pressure, thus increasing blood flow to muscles in addition to triggering the release of [glucose](#) from the body's energy stores.

In [2364](#), [Doctor Beverly Crusher](#) attempted to revive the nearly deceased [Natasha Yar](#) with a norep injection before moving on to reticular stimulation.

In [2366](#), Dr. Crusher gave [Mary Warren](#) two [cc](#)'s of norep moments before she died.

In [2372](#), [The Doctor](#) found elevated levels of norepinephrine in [Lon Suder](#), which suggested increased aggressive tendencies. However, he also noted that Suder's levels were not significantly different from any of the other former [Maquis](#) crew.

[The Clown](#), a manifestation of fear in [Viorsa](#)'s virtual reality [stasis](#) system, [metaphorically](#) chopped his victims' heads off by raising the amount of norepinephrine in their bodies to such extreme levels that they suffered massive [heart attacks](#) and died.

In [2375](#), when [Sarina Douglas](#) began responding to [Doctor Julian Bashir](#)'s treatment for her [cataplexy](#), he discovered that her norepinephrine levels were a little high, which Douglas herself explained was because of [limbic](#) overcompensation for the new [thalamic](#) connections.

In [2376](#), The Doctor found that [Neelix](#)'s norepinephrine levels were three times what they should have been, after his exposure to [neurogenic pulses](#) from the [Tarakis memorial monument](#).

PSILOSYNINE

Psilosynine was a [neurotransmitter](#) and one of the main [chemicals](#) involved in [Betazoid telepathy](#).

In [2370](#), [Lwaxana Troi](#) suffered from low levels of psilosynine after prolonged telepathic [communication](#) with the [Cairn](#).

Later the same year, [Counselor Deanna Troi](#) showed heightened levels of the chemical after experiencing a telepathic 'echo' in [nacelle](#) control. [Dr. Beverly Crusher](#) later gave her an inhibitor to suppress the levels of psilosynine, allowing Troi to enter the control room without being overwhelmed.

Dr. [Julian Bashir](#) explained about psilosynine, "*It's a neurotransmitter involved in psychic phenomenon. We all have a little of it, but people who've been exposed to things like... Vulcan mind melds... the [Bajoran orbs](#), are often left with more.*"

SEROTONIN

Serotonin was a [neurotransmitter](#).

In [2152](#), [Phlox](#)'s cortical scan of [Travis Mayweather](#) revealed elevated levels of serotonin and several other neurotransmitters in his [brain](#).

One of the effects of the [Ktarian game](#) was increased serotonin production, generating a feeling of [euphoria](#) that added to its addictive properties.

Tampering by [solanogen-based lifeforms](#) caused elevated levels of serotonin to concentrate in the [hippocampus](#) of several crewmembers of the [USS Enterprise-D](#). [Doctor Beverly Crusher](#) realized that this was caused by a [neuro-sedative](#) used by the [aliens](#) to sedate the victims of their experiments.

[Tom Paris](#) exhibited elevated serotonin levels in his [hypothalamus](#) after his [transwarp](#) flight in [2372](#).

[Ensign Vorik](#) had elevated serotonin levels during [pon farr](#) in [2373](#).

In [2374](#) [The Doctor](#) found that [Kes](#)' serotonin levels were 62% above normal, which accounted for her [sleeping](#) less and experiencing a lot of energy.

In [2379](#), Dr. Crusher found that [Deanna Troi](#)'s serotonin levels were slightly elevated after a [telepathic](#) attack by the [Reman Reman Viceroy](#).

ADENINE

Adenine was a [chemical compound](#) found in [Human DNA](#). It was always found paired with [thymine](#). Adenine was represented in the genetic code with the letter "A."

Adenine, along with [radodine](#), [lidestolinine](#), and [asporanine](#), were the ingredients to the cure for the [morphogenic virus](#) introduced to the [Changelings](#) by [Section 31](#).

ADENOSINE TRIPHOSPHATE (ATP)

Adenosine triphosphate or adenosine-5'-triphosphate (ATP) was a multifunctional nucleoside triphosphate used in [cells](#) as a [coenzyme](#).

In [2366](#), [Doctor Beverly Crusher](#) was treating a [Zalkonian](#) survivor of a crashed shuttlepod. She determined she needed to design a [virus](#) that would boost his ATP production.

[The Doctor](#) noted a significant increase of adenosine triphosphate in [Kathryn Janeway](#) during her [Nechani](#) endurance ritual in [2373](#).

ADTH

ADTH was a [stimulant](#) which could be dispersed through a [starship](#)'s [life support](#) systems.

In [2367](#), [Lieutenant Commander Data](#) put five [parts per million](#) of ADTH into the airflow of the [USS Enterprise-D](#) to wake the crew after they had been stunned by the [Paxans](#)' fake [wormhole](#).

ALIZINE

Alizine was a [medicine](#) used to counter an [allergic](#) reaction in [Klingons](#).

This was one of the facts [Kathryn Janeway](#) remembered from her [Klingon physiology](#) course at [Starfleet Academy](#). She anticipated [The Doctor](#)'s request for 10 [cc](#)'s of the drug to treat [B'Elanna Torres](#) for [anaphylactic shock](#).

ALKYSINE

Alkysine was a drug used to lessen the damage to neurological tissue after a catastrophic injury. It was not always effective for all injuries and on all species.

Dr. Beverly Crusher tried using an alkysine treatment on Lieutenant Worf following his spinal cord injury in 2368, but the medication was unsuccessful.

AMBERGRIS

Ambergris was a compound secreted by the [intestines](#) of [Earth sperm whales](#), once used to stabilize the scent of [perfumes](#).

In [2269](#), [Dr. Leonard McCoy](#) noted that the [poisonous venom](#) of the [sur-snake](#), a sea-creature [native](#) to the [planet Argo](#), was similar to the ambergris of Earth whales.

AMINO ACIDS

Amino acids are a class of [organic](#) compounds named after the [nitrogenous](#) amino group (-NH₂) and the carboxylic [acid](#) (-COOH) group which they all contain. Amino acids are chemically the structural and functional building blocks of living organisms. The proper sequencing of amino acids into [proteins](#) was encoded in [DNA](#).

When [Jonathan Archer](#) detected [molecules](#) resembling amino acids aboard an [Axanar cargo ship](#) in [2151](#), [Hoshi Sato](#) speculated it could be [blood](#).

Some [scientists](#) believed that only amino acid re-sequencing and disulfide shuffling were involved in [prion](#) replication and that [quantum](#) resonance did not factor – something which [Julian Bashir](#) disagreed with.

The [Klingon J'Dan](#) found a way to encode digital information in amino acid sequences and injected himself and others with the data, thereby enabling those so injected to deliver tactical information to the [Romulans](#).

When [Chakotay](#) noted that a nearby [class M](#) planet had high amino acid and [protein](#) readings, [Captain Kathryn Janeway](#) inferred that it must have a healthy [plant](#) life. Instead, they were residues left behind from [trigeminal vapor](#) on the planet.

When Captain Janeway was bitten by a [nesset](#) on the [Nechani homeworld](#) in [2373](#), an amino acid was formed as a result of the breakdown of the nesseset [toxin](#), causing an interruption of the normal flow of [neurotransmitters](#) and [hallucinations](#).

AMNIOTIC FLUID

Amniotic fluid was a clear liquid that surrounded a developing [embryo](#), serving as a natural [immune system](#). It could be studied via an [amniotic scan](#).

In [2370](#), [Lieutenant Commander Data](#) used the amniotic fluid from the [pregnant Alyssa Ogawa](#) to develop a [retrovirus](#) against [Barclay's Protomorphosis Syndrome](#).

ANALEPTIC

An analeptic (or analeptic compound) was a drug that counteracted the effects of radiation.

In 2373, Neelix took some analeptic compounds with him on a mission to a Nezu colony planet being bombarded by asteroids.

The Malon used analeptic compounds to ameliorate the cellular degradation caused by theta radiation exposure. In 2375, Fesek treated B'Elanna Torres with analeptic compounds during a mission to prevent a malfunctioning Malon freighter from exploding.

When the USS Voyager was split into different timeframes in 2377 by a chronokinetic surge, Tom Paris ordered that analeptics be given to crew members suffering from radiation poisoning once the netrazine ran out.

Analeptic radiation was a form of radiation known to be harmful to "a rather pernicious mutagenic pathogen" that inhabited the planet Paan Mokar.

In order for Jonathan Archer to visit Paan Mokar in 2152, Phlox had to bombard his immune system with analeptic radiation in order to protect him from the pathogen while he was on the surface.

A **cortical analeptic** was a type of drug administered via hypospray, used to reinvigorate tissue in the cerebral cortex.

In 2371, Julian Bashir gave Jadzia Dax several cortical analeptics after Dax was attacked by a Changeling aboard the USS Defiant and had suffered a concussion in the attack.

The Doctor had Kes prepare several doses of the drug while he prepared to perform motor cortex reconstruction surgery on Tom Paris in 2373.

ANESTHIZINE

Anesthizine was a fast-acting [anesthetic](#), which could be administered through [environmental systems](#) as a [gas](#), or through a [hypospray](#) as a [liquid](#). It was considered among "the best," by the [EMH Mark II](#) along with [axonol](#) and [neurozine](#), during the late [24th century](#). A concentration of seventy [parts per million](#) of the gas was typically enough to put a [humanoid](#) to sleep.

ANETRIZINE

This injectable drug is used as a local anesthetic to either relieve localized pain or to permit localized surgery or other potentially painful medical treatment.

In 2374, The Doctor used twenty ccs of anetrizine to anesthetize Seven of Nine's cranial nerves.

ANIMAZINE

Animazine was a stimulant used to keep a person awake.

In [2374](#), [The Doctor](#) recommended giving large doses of animazine to the crew of the [USS Voyager](#) to keep them awake. He gave [Commander Chakotay](#) an animazine derivative to use to stay awake, but Chakotay instead used it on a member of the [dream species](#) who were affecting the Voyager crew.

ANTI-COAGULANT

An anticoagulant was a substance that delayed or prevented the clotting of blood.

In 2153, Doctor Phlox located a marsupial on a class L planet whose saliva was a natural anticoagulant.

Jem'Hadar disruptors and Plasma rifle Disruptor bursts incorporated an anticoagulant into the energy stream; this prevented wounds inflicted by the weapon from healing.

ANTI-VIRAL PROTEIN

An antiviral protein was a [protein](#) with a natural ability to inhibit [viruses](#).

In [2376](#), [The Doctor](#) sent [Tom Paris](#) and [Neelix](#) to the [Wyanti system](#) to gather [spores](#) that could be used to grow antiviral proteins.

ARITHRAZINE

Used to treat radiation poisoning by deadly theta radiation, this drug can be given after exposure as a treatment or prior to likely exposure as a preventative against radiation damage.

ASINOLYATHIN

This drug is an analgesic pain medicine. It is primarily used for muscle spasms.

AXONOL

Axonol was a [sedative medicine](#) used by the [Federation](#) and [Starfleet](#). One use was for [psychiatric](#) patients. It could also be dispersed in [gaseous](#) form, as a crowd-control [anesthetic](#).

According to his medical file, [Spock's](#) physician recommended that he be treated with axonol, as well as [dylamadon](#), [melorazine](#), [tetrovaline](#) and [cortropine](#), when he had himself admitted to the psychiatric ward of [Starbase 5](#). (DIS: "[Point of Light](#)")

On the [USS Prometheus](#), it was one of three agents recommended for use at the behest of the [Emergency Medical Hologram Mark II](#), the other two being [anesthezine](#) and [neurozine](#).

BASE PAIR – DNA

In [molecular biology](#), a base pair is any of the pairs of nucleotides connecting the complementary strands of a [molecule](#) of [DNA](#) or [RNA](#), that are held together by weak chemical bonds, which make up the "rungs" on a DNA "ladder" – known as the double helix.

The base pairs in Human DNA include:

- [Adenine](#) – Thymine
- Guanine – Cytosine

In [2153](#), [Doctor Phlox](#) analyzed the genetic profile of the [Xindi finger Jonathan Archer](#) was given by the [alien foreman](#) of the [trellium mining planet](#). From his analysis, he found that the DNA was "nearly identical to the tissue samples taken from [the corpse](#) found on [Earth](#). Their base pair sequencing is far closer than, say, [Humans](#) and [chimpanzees](#). Nearly identical, but not quite." Learning this, Archer suggested they were more "like Humans and [Neanderthals](#)."

While the [USS Enterprise](#) was in [orbit](#) of [Terra 10](#) in [2269](#), it encountered the [spiroid epsilon waves](#) that were emanating from the [planet](#). Upon further analysis, it was discovered that the waves tend to wind tight spiral molecules, such as [dilithium](#) or the double helix of DNA. Because there are limitations to how far DNA can compacted, they were able to calculate the limits to how much the crew was going to shrink.

When the [Drayans](#) were given a tour of [USS Voyager's sickbay](#) in [2372](#), [The Doctor](#) explained that "*we are fully equipped to provide a wide variety of treatments here, from removing a splinter to re-sequencing the base pairs in a strand of DNA.*"

The [Srivani](#) possessed a form of [sub-molecular technology](#), more advanced than anything developed by [Starfleet](#). In [2373](#), Srivani [scientists](#) placed these microscopic [genetic tags](#) in the DNA of the some of Voyager's crew, which caused [genetic mutations](#) to several individuals. It

was not until The Doctor discovered what appeared to be contaminant on [Chakotay's](#) base pair sequence, that he realized what the devices were.

When [Captain Kathryn Janeway](#) attempted to "make conversation" with [Crewman Mortimer Harren](#), in [2376](#), to get to know him better, such as asking about where he grew up, he explained to her that "*I am a product of my nucleic acids. So if you're trying to understand me better, questions about my home planet are irrelevant.*" In response, Janeway [humorously](#) asked him, "*how's your 13th [chromosome](#)? Missing a couple of base pairs in [gene 178](#)?*"

In [2377](#), [Icheb](#) began [tutoring Naomi Wildman](#) in her study of [genetics](#). Taking the creative approach, he had her learn by putting together a [jigsaw puzzle](#) featuring an image of a strand of DNA. After nearly completing the portion of the puzzle showing the DNA helix, Icheb congratulated Naomi for having "*recognized the complementary base pair,*" she admitted to him that "*actually, I just found two pieces that fit together.*"

- Base Pair Correlation - A base pair correlation was a medical test that determined whether an individual's [DNA](#) had been compromised. In [2369](#), [Doctor Beverly Crusher](#) intended to run a [base pair](#) correlation to look for DNA breakdown in [Reginald Barclay](#) following his exposure to high [energy plasma](#).
- Base Pair Destabilizer - Base pair destabilizers were a class of [drug](#) used to affect the base pair sequences of [virus DNA](#). In [2369](#), [Julian Bashir](#) tested base pair destabilizers on an [aphasia virus](#) that had infected the population of [Deep Space 9](#), but the substances were ineffective.

BENJISIDRINE

Benjisidrine was a cardiovascular drug used to treat Vulcans who suffered from a heart valve malfunction.

A physician prescribed this drug for Sarek, Spock's father, who suffered from congestive heart failure. However, his condition became too advanced for pharmaceutical therapy alone, and surgical intervention was required.

BICARIDINE

Bicaridine was an [analgesic medication](#) often used as a substitute for [metorapan](#). In [2368](#), [Wesley Crusher](#) was treated with bicaridine instead of [metorapan](#) because he was [allergic](#) to metorapan.

BILE

Bile was a bitter yellow liquid, secreted by the [liver](#) that aided in absorption and digestion.

In [2151](#), [Jonathan Archer](#) told [Phlox](#) that [Humans](#) used to collect the bile of [black bears](#) to be used as an [aphrodisiac](#).

BONE MARROW

Bone marrow was a [biological tissue](#) found within the larger [bones](#) of many [species](#). Generally, bone marrow produced [oxygen](#)-carrying [blood cells](#) ([erythrocytes](#)), among other types, or cells that could become fat, [cartilage](#), or bone.

In [2267](#), [Pavel Chekov](#) was subjected to a variety of medical tests, including sampling of his bone marrow, following the discovery of his apparent immunity to the [radiation](#) which caused rapid aging of all members of a [landing party](#) except him.

In [2371](#), [Kes](#) discovered the [genetic](#) markers in [Seska's blood](#) did not match that of a [Bajoran](#), but rather appeared to be [Cardassian](#). When confronted with this evidence by [Chakotay](#), Seska claimed to have survived an outbreak of [Orkett's disease](#) due to a bone marrow transplant from a sympathetic Cardassian woman named [Kattell](#). However, [The Doctor](#) knew that a bone marrow transplant could not explain the genetic markers, and Seska was exposed as a Cardassian [spy](#).

In [2372](#), [Vidians](#) who were invading a duplicate of Voyager extracted Kes' [pelvic ridge](#) in order to analyze her bone marrow for resistance to the [phage](#).

In [2374](#), The Doctor noted high concentrations of [Borg organelles](#) in [Seven of Nine's](#) bone marrow and [lymphatic tissue](#).

BORATHIUM

Borathium was a new [rybotherapy](#) developed by [Doctor Toby Russell](#) in [2368](#). She believed it to be decades more advanced than two related medications, [leporazine](#) and [morathial](#), although it was still in the experimental stages at the time.

She used the [drug](#) on a seriously-injured survivor of the [USS Denver](#) disaster in [2368](#), although morathial may have been effective. The survivor later died from [neural metaphasic shock](#), but Russell was content with the fact that she gained valuable data which would allow her to improve Borathium. She felt she was justified in sacrificing one [patient](#) to potentially save thousands in the future. Dr. [Beverly Crusher](#) was not happy with Dr. Russell's decision, and relieved her of medical duty aboard the [USS Enterprise-D](#) following the incident

BROMELAIN

Bromelain was a [plant enzyme](#) that appeared in several types of [fruit](#) and foliage, including – but not limited to – [pineapple](#).

[Lieutenant Malcolm Reed](#) was [allergic](#) to this [compound](#), but was able to consume it as a result of targeted treatments including regular injections, administered by [Doctor Phlox](#)

CARBOHYDRATES

Carbohydrates are [organic molecules](#) commonly found in [food](#) that fill numerous roles in [living](#) organisms.

By [2151](#), the [Xyrellians](#) claimed to be able to synthesize [proteins](#) and carbohydrates. Prior to [Trip Tucker's](#) visit to a [Xyrellian starship](#) in order to effect repairs, [T'Pol](#) cautioned him to be [diplomatic](#) about the flavor of the [food](#) they, as it might be unpleasant.

In [2267](#), [Janet](#) and [Theodore Wallace](#) performed experiments using carbohydrate compounds to slow the aging of [plants](#) on [Aldebaran III](#).

CARBON DIOXIDE

Carbon dioxide (CO₂) is an odourless, colourless, non-flammable [gas](#) composed of one [carbon atom](#) and two [oxygen](#) atoms. It is expelled by [animals](#) and consumed by [plants](#).

In [2368](#), [Data](#) determined that the carbon dioxide in a soft [drink](#) he was having with [Timothy](#) reacted with the [polysaccharides](#) therein to produce "an unusual combination of texture and effervescence."

Three subterranean pockets of carbon dioxide were located on [Penthara IV](#). When the [planet](#) was struck by a [type C asteroid](#) and was threatened to freeze over because of a large cloud cover, the [USS Enterprise-D phaser drilled](#) large holes into the pockets in order to release the gas, thereby creating a [greenhouse effect](#) and preventing the world from freezing over.

The [alien lifeform](#), later discovered to be [Odo](#) infected with [volcanic](#) gas, was determined to require a higher concentration of carbon dioxide than [Deep Space 9's](#) [atmosphere](#) provided.

The planet surveyed in the [Gamma Quadrant](#) by [Jake](#) and [Nog](#) had an atmosphere composed of 77% [nitrogen](#), 21% oxygen and 2% carbon dioxide.

A dosage of fifteen [ccs](#) of [tri-ox](#), given every four hours to a [Human](#), can be used to compensate for excess carbon dioxide in a planet's atmosphere.

CELLULOSE

Cellulose was a [carbohydrate](#) that formed the primary building matter of [plants](#). [Cabbages](#), [psyllium](#), [green beans](#), and [celery](#) were some [vegetables](#) known to contain high amounts of cellulose.

Some cellulose remained in the soil on [Melona IV](#) after the [Crystalline Entity](#) had devastated the [planet](#) in [2368](#). [Kila Marr](#) included these additional readings after [Geordi La Forge](#) reported that all the data she'd provided earlier had been entered into the [USS Enterprise-D](#)'s computers.

When [Neelix](#) was having trouble with a [replicator](#) in the [mess hall](#) in [2372](#), he noted to [Samantha Wildman](#) that it was having trouble replicating anything with a high level of cellulose, creating food that was yellower in appearance than normal.

CHLORAXINE

Chloraxine was a [chemical substance](#) which was lethal in a sufficient dosage.

In [2151](#), the [Starfleet](#) crew of the [NX-class starship Enterprise](#) discovered an [Axanar cargo ship](#). At least one member of the [Axanar](#) crew was killed by a lethal dosage of chloraxine.

CHLOROMYDRIDE

Chloromydride was a strong [cardio stimulant](#), generally used when [inaprovaline](#) was ineffective.

When [Worf](#) began to go into [cardiac arrest](#) following [surgery](#) involving the [genetronic replicator](#) in [2368](#), [Dr. Beverly Crusher](#) ordered him to be injected with fifteen [cc](#)'s of chloromydride.

CHOLIC ACID

Cholic acid was a [crystalline acidic](#) substance secreted by the [humanoid liver](#). This acid played an important role in digestion.

When [Chief Engineer Geordi La Forge](#) and [Lieutenant Barclay](#) were analyzing a corrosive organic solvent in a [Jefferies tube](#), La Forge mentioned there were high levels of cholic acid [enzymes](#) which were dissolving a [bulkhead](#) and [conduit](#). Upon completing a [biospectral](#)

[analysis](#), the solvent was later learned to be that of Lieutenant [Worf's venom](#), as he was spraying it throughout the ship after becoming infected with [Barclay's Protomorphosis Syndrome](#).

CHROMOSOME

A chromosome, or chromosome body, is a long, continuous strand of [DNA](#) that contains [genes](#) and regulatory elements. It is a [macromolecular](#) unit of genetic information. [Humans](#) had 23 chromosome pairs.

Chromosomes could be negatively impacted by:

- excess or deficiency of [trace elements](#);
- [industrial waste byproducts](#) in [air](#) and [water](#);
- [vitamin](#) deficiencies;
- [viral](#) contaminants;
- [magnetic field](#) failure;
- increase in [visible light](#);
- [potassium](#) overexposure;
- [calcium](#) resorption;
- bad [personal hygiene](#);
- [red dye number two](#);
- long-term [disease](#) exposure;
- [extraterrestrial](#) diseases;
- airborne [particles](#) (inert or carcinogenic);
- [gravitational](#) variations;
- [solar flux](#) variations;
- [neutrino](#) bombardment;
- [chemical](#) exposure;
- nuclear radiation;
- [gamma ray](#) exposure;
- [ultraviolet radiation](#); and
- parasitic organisms.

In [2369](#), [Julian Bashir](#) and [Jadzia Dax](#) ran a chromosome [scan](#) of a [clone](#) of [Ibudan](#).

In [2372](#), [The Doctor](#) used undamaged chromosomes from [Danara Pel's cerebellum](#) to recreate her original DNA code.

When the [Silver Blood USS Voyager](#) and its crew began to deteriorate from [subspace radiation](#) in [2375](#), The Doctor found that their chromosomes were breaking down on a [molecular](#) level.

The [Brunali](#) made [microgenetic alterations](#) in the 3rd, 13th, and 17th chromosomes of certain children so that they would produce a [spaceborne virus](#), turning them into weapons against the [Borg](#).

CHRONEXALINE

Chronexaline was a drug under development at [Starfleet Medical](#) in the year [2404](#), designed to protect [biomatter](#) from [tachyon](#) radiation.

In that year, [Admiral Kathryn Janeway](#) requested 2,000 [milligrams](#) from [The Doctor](#), in order to protect her from the harmful side effects of the [chronodeflector](#), a [time travel](#)-device which she subsequently used to travel to [2378](#) and change history, returning the [USS Voyager](#) to [Earth](#) sixteen years earlier than it would have without the admiral's intervention.

CHRYSIMITE

Chrysimite is a [chemical compound](#) which can produce an [electropathic pattern](#) identical to that produced by [Iresine Syndrome](#).

In [2368](#), it was one of substances suggested by [USS Enterprise-D's computer](#) as being a possible cause of the symptoms experienced by the crew.

CORDAFIN

Cordafin was a drug that could be used as a [stimulant](#).

In [2374](#), [Tim Watters](#) took cordafin stimulants for two months while he was in command of the [USS Valiant](#). [Dorian Collins](#) told [Jake Sisko](#) this. He told [Nog](#) after the [Ferengi](#) expressed his confidence in Watters' abilities as [captain](#).

CORTROPINE

Cortropine was a strong [stimulant](#) included in standard-issue [Starfleet medkits](#).

According to his [medical file](#), [Spock](#) was prescribed 5 [mg](#) cortropine, three times a day, when he had himself admitted to the psychiatric ward of [Starbase 5](#).

In [2269](#), [Dr. McCoy](#) utilized cortropine to overcome symptoms of weakness experienced by the [landing party](#) on the [second planet](#) of the [Taurean system](#).

The stimulant cortropine, invented on Omicron Cephei VI, was similar to [methamphetamine](#) used on [Earth](#). It was normally used to treat [hyperkinesis](#) in children and [narcolepsy](#).

CYALODIN

Cyalodin was a [chemical substance](#), naturally deadly to [Humans](#).

The adult members of the [Starnes Exploration Party](#) all committed mass [suicide](#) by taking a dose of cyalodin.

CYTOKINETIC ENZYME

A cytokinetic enzyme was a type of [enzyme](#) that stimulated [cell](#) division.

In [2152](#), the [automated repair station](#) used these enzymes to heal [Malcolm Reed](#)'s injured left [leg](#). While monitoring the healing process, [Doctor Phlox](#) noted that the enzymes were healing Reed at an "exponential rate".

CYTOPLASM

Cytoplasm was a gelatinous fluid that filled most [cells](#) in [biological lifeforms](#).

The [Klingon retrovirus](#) known as [nehret](#) destroyed the cells of its host by attacking their cytoplasmic membranes.

The [medical book Gray's Anatomy](#) mentioned in chapter one that "*in the higher [organisms](#) a cell may be defined as a nucleated mass of [protoplasm](#) of microscopic size. Its two essentials, therefore, are: a soft [jelly-like material](#), similar to that found in the ovum, and usually styled cytoplasm, and a small spherical body embedded in it, and termed a nucleus. Some of the unicellular [protozoa](#) contain no [nuclei](#)...."*

The [biochemical analysis](#) of a [symbiogenetic orchid](#) discovered in the [Delta Quadrant](#) by [Tuvok](#) and [Neelix](#) in [2372](#), which was later a contributing factor in the creation of [Tuvix](#), was found to contain the same elements as many plants including [chloroplasts](#), [lysosomal enzymes](#), and cytoplasmic [proteins](#).

In [2373](#), [Doctor Bashir](#) speculated that exposure to [tetrayon radiation](#) damaged the cytoplasm of the [infant Changeling](#), resulting in its failing [life signs](#).

DALAPHALINE

Dalaphaline was a [systemic stimulant drug](#).

In the [2270s](#), [Doctor Chapel](#) used 5 [cc](#)'s of dalaphaline to strengthen [Spock](#) after his [mind meld](#) with [V'ger](#), which had caused him some [neurological](#) trauma.

DARDILION

Dardilion was a [chemical compound](#) that could cause [electropathic residue](#) in the [thalamus](#) of [humanoid brains](#). Dardilion contained the by-product [nilizene](#).

DELACTOVINE

Delactovine was a [systemic stimulant drug](#).

In [2368](#), [Doctor Crusher](#) tried to use a two [cc](#) dose of delactovine to keep [Captain Picard](#) alive when his connection to the [Kataan probe](#) was severed. However, no medical method could stabilize Picard's condition, so the [USS Enterprise-D crew](#) had to allow the [probe](#)'s [beam](#) to reconnect with the captain again.

DEOXYRIBOSE SUSPENSION

Deoxyribose suspension was a fluid derived from [DNA](#).

In [2367](#), [J'Dan](#) used deoxyribose suspension to carry encoded secret information in his [bloodstream](#) undetected. The suspensions were prepared in [sickbay](#) aboard the [USS Enterprise-D](#) by [medical technicians](#), like [Simon Tarses](#).

DESEGRANINE

Desegranine was a [Cardassian drug](#) used to reverse [memory loss](#).

The drug was used by the [Obsidian Order](#) during the [24th century](#) to help its [undercover agents](#) remember their true identities. When used, memories began to resurface within a few [hours](#). [Corbin Entek](#) administered a dosage of desegranine to [Kira Nerys](#) in [2371](#), in a failed attempt to revive the non-existent memories of [Iliana Ghemor](#).

DNA

Deoxyribonucleic acid, or DNA, is the building block of most [carbon-based lifeforms](#). It is the blueprint for a living [organism](#) and encodes [amino acids](#) for [polypeptides](#) which form [proteins](#), which, when properly sequenced, form [cellular](#) pathways that together form the physical structure and [anatomical](#) characteristics of an [organic lifeform](#). If DNA is changed in some way, the host organism responds to the change by re-making itself in the form specified by the new DNA, often extremely rapidly.

DNA samples were collected from all [Vulcan](#) children at birth and kept on file by the Vulcan government.

By matching DNA gene types, [Starfleet](#) was able to identify [Jono](#) as [Jeremiah Rossa](#).

According to [Geordi La Forge](#), over 100 [years](#) of testing had proven that use of the [transporter](#) had no effect on DNA.

In [2256](#), [Klingons](#) harvested [Lieutenant Ash Tyler](#)'s DNA in order to reconstruct his [consciousness](#) and rebuild his memory in preparation for grafting with [Vog](#)'s psyche in the [choH'a'](#).

During the mid-[23rd century](#), [Harcourt Fenton Mudd](#) created androids thinly skinned with [replicant](#) DNA, which appeared to be him to [scanners](#).

In the mid-[2250s](#), [Captain Maddox](#) injected Barlow with the DNA of the [Comtaxan parasite](#), which was known to not "mix well" with [Human](#) DNA. The injection resulted in the brutal vaporization of Barlow.

In [2367](#), [Ishara Yar](#) offered to have her DNA tested as a means of proving that she was [Lieutenant Natasha Yar](#)'s [sister](#). The test was administered by [Doctor Beverly Crusher](#) and proved that her claim was true.

In [2369](#), when Lieutenant [Reginald Barclay](#) was exposed to a high-energy [plasma](#) field in a [transporter](#) field, Dr. Crusher wanted to examine him using a base pair correlation to see if there was any sign of breakdown in his DNA.

Also in 2369, Dr. Crusher investigated the cause of the age reversion of four crew members. She explained that unlike DNA, which never changed, RVN ([rybo-viroxic-nucleic](#)) took on additional varoxic sequences during puberty.

That same year, following clues developed by his mentor, [Richard Galen](#), [Jean-Luc Picard](#) discovered evidence that an ancient race of [humanoids](#) had seeded many planets with their

DNA billions of years earlier. The evidence suggested that [Humans](#), [Romulans](#), [Klingons](#), [Cardassians](#), and others may have far more in common than previously believed.

The result of this DNA being spread across the [Milky Way Galaxy](#) is the [humanoid](#) form itself. This DNA creates a tendency toward a specific external form. The similarity created allows even for [inter-species reproduction](#) between species that evolved [quadrants](#) apart. It should be noted that the internal workings even down to the base [element](#) of the [blood](#) can still be quite diverse.

[Changelings](#) had DNA in their [morphogenic matrix](#). In [2369](#), [Constable Odo](#) noted that traces of his DNA had been left at the scene of [Ibudan's murder](#) on [Deep Space 9](#), intended to aid in framing him for the crime.

In [2370](#), a DNA test established that [Rugal](#) was the son of [Kotan Pa'Dar](#).

The [counter-insurgency program](#) on [Deep Space 9](#) employed a DNA scan to verify the identity of [Gul Dukat](#), preventing [Elim Garak](#) from posing as him.

DNA extracted from a [male](#) could be used to [impregnate](#) a female. In [2372](#), [Seska](#) claimed she impregnated herself with DNA she had stolen from [Commander Chakotay](#) while he was her prisoner.

The [missile Cardassian ATR-4107](#) ("Dreadnought") used a DNA scan on anyone visiting it to establish their identity.

Each cell of the DNA of a member of [Species 8472](#) contained more than one hundred times the DNA of a Human cell, making them the most densely coded lifeform that [The Doctor](#) had ever seen.

In [2374](#), certain segments of the DNA of a number of [USS Voyager](#) crew were hyper-stimulated as part of the experiments by the [Srivani](#), resulting in dangerous [mutations](#).

The DNA and psychological profile of [Alpha Jem'Hadar](#) were specifically designed for combat in the [Alpha Quadrant](#).

In [2375](#), Commander [Valerie Archer](#) (secretly a member of [Species 8472](#) in disguise) shared a [kiss](#) with Commander Chakotay to obtain his DNA, which she was then able to analyze to prove that he was Human.

The [Kobali](#) used an extensive process that involved altering DNA of the dead from other races to create new members of their species.

A strand of DNA, presumably from an [Earth](#) species was seen in the resetting [time stream](#) after the end of the [Temporal Cold War](#).

- Mitochondrial DNA - Mitochondrial DNA was the [DNA](#) located in [mitochondria](#). Mitochondrial DNA was one area where there were significant biological similarities between mothers and daughters, to the point that it might even lead their bio-neural signatures to be confused. After [Sylvia Tilly](#) disappeared in a [JahSepp cocoon](#), [Paul Stamets](#) theorized that it was an [Organic transporter](#), which he tested by scanning it for Tilly's mitochondrial DNA, as well as her lipids and [proteins](#).
- Selected DNA Exchange - A selected DNA exchange was the term used to describe the process an [unknown alien](#) used to swap [DNA](#) with a series of [Humanoid](#) victims, in a unique form of [possession](#).

ENDOCRINE SYSTEM

The endocrine system was a control system of [glands](#) that secrete [hormones](#) which circulate within the body via the [circulatory system](#) to affect [cells](#) within certain organs of the body. The study of the endocrine system was known as [endocrinology](#).

[Pa'nar Syndrome](#) affected the endocrine and [immune systems](#) as well as causing degradation of the [synaptic pathways](#).

One of [Doctor Phlox](#)'s reasons for staying aboard [Enterprise NX-01](#) after the ship's [maiden voyage](#) in [2151](#) was that he was fascinated with the [Human](#) endocrine system, according to [Captain Jonathan Archer](#).

The same [year](#), Doctor Phlox discovered that both, [Nadet](#) and her [son Jamin](#), showed signs of microcellular decay in their endocrine systems and reasoned that the underground [water](#) supply of the [Novans](#) was [contaminated](#) by the [radioactive debris](#).

Doctor [Christine Chapel](#) pointed out the [android Iliia](#)'s internal functions were patterned almost identically to the [exocrine](#) (and, therefore, endocrine) systems of her [parent carbon-based lifeform](#).

In [2371](#), Doctor [Julian Bashir](#) reported that [Zek](#)'s endocrine system was in "terrific shape" after [Quark](#) had him perform a medical examination on the [Grand Nagus](#).

ENZYME

An enzyme was a natural catalyst produced by [organisms](#). Enzymes were [biochemical](#) and could consist of any number of [proteins](#).

The [Velandran Circle](#) developed an experimental enzyme which they claimed was capable of stopping the rapid aging process of [mimetic simbiots](#). Empirical evidence supporting their claim was sketchy at best.

[Virus vaccine](#) synthesis normally required enzymes.

The [Altarian marsupial](#)'s [droppings](#) contained a great concentration of regenerative enzymes.

[Humans](#) could be [allergic](#) to enzymes. [Malcolm Reed](#) was allergic to [plant](#) enzymes.

[Kadi physiology](#) lacked the enzyme to break down [alcohol](#)-like substances in [synthanol](#).

A fluorescent enzyme was produced by the [Teirenian ant](#) drones and activated by their queen. [Bones](#) and [muscle tissue](#) of [Hirogen](#) prey were broken down outside the body by an enzyme.

[Bathar](#)'s formula to stop the aging process was only a [tripolymer enzyme](#).

- [Bromelain](#)
- [Cholic acid](#)
- [Cytokinetic enzyme](#)
- Fluorescent enzyme
- [Isogenic enzyme](#) - An isogenic enzyme was a type of natural catalyst produced by [organisms](#).
- [Ketracel-white](#) was an addictive [narcotic](#) containing an isogenic [enzyme](#) and nutrients and is derived from a fungus found on the [Hur'q](#) homeworld. The [Dominion](#) hoped to use the earliest form of ketracel-white to control the Hur'q, but discovered that this was impossible as without the substance, they became non-sentient and extremely aggressive. The Changelings nonetheless refined ketracel-white and engineered the [Jem'Hadar](#) and the [Fek'Ihri](#) in the hopes of using it, with the Jem'Hadar ultimately being the successful experiment.
- [Lysosomal enzyme](#) - Lysosomal enzymes were the [enzymes](#) responsible for the digestion of large [organic molecules](#) in a [cell](#). The enzymes contained in the lysosomes were so powerful that if they were released from their vacuole, the cell would be obliterated, digested from within. The [biochemical analysis](#) of a [symbiogenetic orchid](#) discovered in the [Delta Quadrant](#) by [Tuvok](#) and [Neelix](#) in [2372](#), which was later a contributing factor in the creation of [Tuvix](#), was found to contain the same elements as many [plants](#) including [chloroplasts](#), lysosomal enzymes, and [cytoplasmic proteins](#).
- [Macromorphase enzyme](#) - A macromorphase enzyme was a type of [enzyme](#) that broke down [food](#) for the purpose of [digestion](#).
In [2269](#), [Doctor Leonard McCoy](#) compared the [mist](#) surrounding the [USS Enterprise](#) to a macromorphase enzyme. While incapable of penetrating the [ship](#)'s [shields](#), it had the potential to [corrode](#) the [hull](#) and break down the [crew](#) into "nice, digestible particles".
- [Metabolic enzyme](#) - A metabolic enzyme was a type of [enzyme](#) associated with the [metabolism](#).
In [2377](#), [Seven of Nine](#) created a mixture of metabolic enzymes and protein extract to compensate for her malfunctioning [alcove](#). [Neelix](#) suggested he make her a [Talaxian omelette](#) instead, saying although it wouldn't have as many enzymes, it would have a better taste.
- [Morphogenic enzyme](#) - A morphogenic enzyme was a type of [enzyme](#) present in [changelings](#). These enzymes could be tested with a [morphogenic enzyme analysis](#).

In [2373](#), [Dr. Julian Bashir](#) found residual traces of these enzymes in a neurochemical scan of a supposedly solid [Odo's brain](#) after they had been activated by a [plasma storm](#).

- [Neurolytic enzyme](#) - A neurolytic enzyme was an [enzyme](#) present in [Vulcans](#).

High levels of neurolytic enzymes were a symptom of [Pa'nar Syndrome](#). In [2152](#), [Doctor Phlox](#) informed [T'Pol](#) that her neurolytic enzymes were up from the [month](#) previous, indicating that the treatments she had been undergoing up until that point were no longer effective.

In [2154](#), Phlox tested her enzymes twice within the span of one [week](#) and detected no change, indicating she had been cured of the syndrome.

- [Ovarian resequencing enzyme](#) - Ovarian resequencing enzymes were a type of [enzyme](#) used to [facilitate the creation](#) of [hybrid](#) offspring between two persons of different [species](#).

- [Regenerative enzyme](#) - A regenerative enzyme was an [enzyme](#) which could help in the regeneration of medical [patients](#).

According to [Doctor Phlox](#) in [2151](#), the [droppings](#) of the [Altarian marsupial](#) contained the greatest concentration of regenerative enzymes known.

- Targeted restriction enzyme
- [Tripolymer enzyme](#) - Tripolymer enzyme was a type of [biochemical](#) substance.

ESTROGEN

Estrogen was a female steroid [hormone](#) produced by the ovaries and by the adrenal cortex, [placenta](#), and male testes.

In [2372](#), after transferring [Keiko O'Brien's baby](#) to [Kira Nerys](#), [Doctor Julian Bashir](#) had to stimulate Kira's estrogen and [progesterone](#) production to enable the baby to metabolize [Bajoran](#) nutrients.

EXOCRINE SYSTEM

The exocrine system was a control system of [glands](#) that secreted their products into ducts that led directly into the external environment. It was the counterpart to the [endocrine system](#).

FELODESINE CHIP

The felodesine chip was a small [poison](#) tablet used by members of the [Romulan military](#) to commit [suicide](#). It was usually formed into a small, one-inch orange disk. There was no [antidote](#) known to the [Federation](#).

[Alidar Jarok](#) committed suicide by ingesting a felodesine chip in [2366](#).

FERRAZINE

Ferrazene was a [chemical compound](#) with a complex molecular structure which could produce an [electropathic pattern](#) identical to that produced by [Iresine Syndrome](#). Ferrazene broke down into [bilanium](#) and [tarrisite](#). [Galaxy-class starships' sensors](#) regularly [scan](#) for all three compounds on [Galaxy-class starships](#).

FOLIC ACID

Folic acid was a [vitamin](#) of the B complex, found in green [vegetables](#), [liver](#), and [kidney](#).

FORMAZINE

Formazine was a [stimulant](#), acting through the [lymphatic system](#) on the central [nervous system](#). Normally used to promote alertness and reduce [fatigue](#), in higher doses it could cause severe restlessness and irritability.

GLANDULAR SECRETION – VENOM

A glandular secretion was any [chemical](#) produced by a [gland](#), such as [venom](#).

A glandular secretion was developed by the bodies of the [female](#) members of [Theela's species](#) in response to the energy-draining properties of their new [homeworld](#) in the [Taurean system](#). Though it aided their survival by warding off the effects of aging and [death](#), it also allowed them to manipulate the [emotions](#) of the males of that species, eventually weakening all the males to the point of death. In [2269](#), several male [crewmembers](#) of the [USS Enterprise](#) came under the influence of this secretion.

[Potak cold fowl](#) was made from the glandular secretions of an adult [dunghill bird](#).

GLYCOGEN

Glycogen was a [polysaccharide](#) that was the principal storage form of [glucose](#) in [Human](#) and [animal cells](#).

In [2374](#), [The Doctor](#) determined that [Seven of Nine](#) required a dietary content of [glycoproteins](#) consisting of 53% [polypeptides](#) and 26% fibrous glycogen when she started to ingest [food](#) after her release from the [Borg Collective](#).

GLYCOPROTEIN

A glycoprotein is a type of [molecule](#) composed of [carbohydrates](#) and [protein](#) that can be prescribed as a form of nutritional supplement.

In [2374](#), [The Doctor](#) prescribed 250 [grams](#) of glycoproteins consisting of 53% [polypeptides](#) and 26% fibrous [glycogen](#) as part of [Seven of Nine](#)'s nutritional requirements.

GROWTH HORMONE

Growth hormones, sometimes referred to as pituitary hormones, are [hormones](#) produced by the [pituitary gland](#) to regulate the growth of an individual.

[Kironide](#) was broken down by pituitary hormones, which explained why the [dwarf Alexander](#) was immune to its effects.

[Doctor Mercer](#) used growth hormones to accelerate the growth of [Elizabeth](#), a [clone](#) of [T'Pol](#) and [Charles Tucker III](#). Due to a fault in the cloning process, the baby [died](#) after a short [lifespan](#).

In [2373](#), a [macrovirus](#) utilized growth hormones from a [Garan miner](#) and [B'Elanna Torres](#) to increase its size.

HEMERYTHRIN

Hemerytherin was a [biochemical](#) substance that carried [oxygen](#) in the [blood](#) of [Tellarites](#) and certain [marine invertebrates](#) of [Earth](#).

Performing makeshift [surgery](#) on [Grek](#), [Commander Jett Reno](#) indicated to [Captain Christopher Pike](#) that the Tellarite blood on her [gloves](#) was safe for a [handshake](#) as it was rich in hemerytherin.

HEMOGLOBIN

Hemoglobin was the compound in [red blood cells](#) that gave them their [red color](#) and served to convey [oxygen](#) to the body [tissues](#).

[Human](#) hemoglobin was [iron](#)-based, while [Vulcan](#) hemoglobin was [copper](#)-based and green in color.

In [2268](#), [Spock](#) suggested he ought to set a [trap](#) for the [dikironium cloud creature](#), given the low level of hemoglobin in his blood.

In [2268](#), after [Leonard McCoy](#) had received treatment for his [xenopolycythemia](#), [Spock](#) reported that the [doctor's hemoglobin count](#) was back to normal.

[Terran leeches](#) consumed hemoglobin. In [2370](#), [Doctor Beverly Crusher](#) compared the [interphasic organism's](#) consumption of [cellular peptides](#) to leeches consuming hemoglobin.

In [2374](#), a shrunken [Julian Bashir](#) dissuaded a shrunken [Miles O'Brien](#) from leaving the miniature [USS Rubicon](#), as the [oxygen molecules](#) outside were nearly 2,000 times too big for his hemoglobin to take in.

HISTAMINE

Histamines were substances produced by an individual in response to an [allergic reaction](#). They are a [biochemical](#) substance produced by the breakdown of [histidine](#), an [amino acid](#) in [humanoid tissues](#). Histamine is produced by the body when it comes in contact with substances to which the body is sensitized, and is a primary factor in the humanoid allergic response.

An Anti-Histamine is a balm or salve or treatment that reduces the allergic response to external stimuli.

When [Doctor Seth Mendoza](#) was infected with [Ferengi pyrocytes](#) in [2366](#), his [immune system](#) responded with a system-wide histaminic reaction.

An early symptom of infection by the [Tarchannen III species](#) is an allergic histamine response.

In [Iresine syndrome](#), patients exhibit [electropathic residue](#) and lowered [histamine count](#). The absence of lowered histamine levels permit the aftereffects of [Ullian telepathic memory invasion](#) to be distinguished from Iresine syndrome.

HORMONE

Hormones were [chemicals](#) secreted by [cells](#) in certain parts of the body that triggered changes and responses in other parts or cells of the body. Hormones controlled and regulated activity of cells and [organs](#) such as [metabolism](#), [reproduction](#), growth, digestion, and mood.

[Neurotransmitters](#) were a type of hormone.

During [pon farr](#), which was a [Vulcan](#) time of mating, cortical levels rose and fell, as the [brain's](#) regulatory system appeared to shut down when [serotonin](#) levels became unbalanced. In [female](#) Vulcans, hormones and [endorphins](#) tended to rise to dangerous levels during the pon farr.

HYDROCORTILINE

Hydrocortilene was an [analgesic medication](#) used during the [24th century](#) to alleviate pain, specifically [headaches](#). In [2373](#), [The Doctor](#) used a [hypospray](#) with 3% hydrocortilene to treat [Lieutenant B'Elanna Torres's](#) headache.

HYDROXYPROLINE

Hydroxyproline was an [amino acid](#) that was limited to structural [proteins](#) of the [collagen](#) type.

In [2371](#), while being tested on her [medical](#) knowledge, [Kes](#) told [The Doctor](#) she would perform a [pancreatic scan](#) for one of the inquiries if the hydroxyproline level was at a certain height.

HYLANATINE

Hylanatine was a [chemical compound](#) which could produce an [electropathic pattern](#) identical to that produced by [Iresine Syndrome](#).

HYPERZINE

Hyperzine was a standard [stimulant](#).

In [2370](#), Dr. [Julian Bashir](#) administered two 20cc doses of hyperzine to [Elim Garak](#) to counter the seizures caused by his [cranial implant](#).

HYRONALIN

This drug is used as a general treatment for radiation poisoning other than that caused by theta radiation. It can be given by injection both prior to exposure as a preventative and afterwards as a treatment. In gaseous form, it can safely be used to treat large number of humanoids simultaneously by introducing it into a starship's or building's air supply.

HYVROXILATED QUINT-ETHYL METACETAMIN

Hyvroxilated quint-ethyl metacetamin was an [anesthetic](#). When consumed in quantities of seventeen [milligrams](#) in about a half-[liter](#) of [water](#) (approximately 30 to 40 [parts per million](#)), it would render a [Human](#) barely able to stand.

In [2370](#), [Quark](#) tried to fix a [racquetball](#) match between [Julian Bashir](#) and [Miles O'Brien](#) by attempting to drug the [doctor](#) with a herbal beverage consisting of water, [sucrose](#), [dextrose](#), general [root](#) extract, [grain](#) particulates, [yeast](#), [synthehol](#) and the substance.

IMPROVOLINE

Improvoline was a standard [sedative](#) in [2373](#).

At one point in that year, [The Doctor](#) attempted to give [Lon Suder](#) five [ccs](#) of improvoline to calm Suder down after he had been forced to kill a [Kazon](#), but Suder refused.

INAPROVALINE

Inaprovaline was a [synaptic stimulant](#) and [cardiostimulant](#). It worked by fortifying the [cell](#) membranes and could be used as a preventative measure or in response to various physical illnesses. [Chloromydride](#) was a stronger version of inaprovaline.

In [2151](#), while exploring an uncharted [M-class planet](#), several of the crew of [Enterprise NX-01](#) became affected by [tropolisine](#). [Doctor Phlox](#) discovered that inaprovaline, combined with being removed from the [pollen](#)-saturated environment, would allow the delusional effects of tropolisine to dissipate.

Also in 2151, while the crew of the [Vahklas](#) was aboard the Enterprise, [T'Pol](#) went to bed without meditating. Her [dreams](#) were unsettling and she was agitated upon awaking, so she asked Doctor Phlox for 25 [milligrams](#) of inaprovaline to calm her nerves.

In [2366](#), the [Zalkonian](#) "[John Doe](#)" [crash landed](#) on a [planet](#) and was rescued by the [USS Enterprise-D](#). Suffering from low autonomic responses, Dr. [Beverly Crusher](#) gave "John Doe" 60 [ccs](#) of inaprovaline.

When [Worf](#) began to lose [brain](#) function following his surgery involving the [genetronic replicator](#) in [2368](#), Dr. Crusher injected him with 40 ccs of inaprovaline and then 75 ccs more. The [drug](#) did not have an effect, forcing her to try chloromydride.

In [2369](#), Dr. Crusher administered 40 ccs of inaprovaline to 93 year-old [Sev Maylor](#), the mother of [Lumerian Ambassador Ves Alkar](#). It failed to revive the elderly woman, who was pronounced dead in their quarters.

When [Jean-Luc Picard](#) was injured by a [Lenarian](#) at a diplomatic [conference](#) in [2369](#), Dr. Crusher injected him with 40 ccs of inaprovaline.

Inaprovaline was administered to a patient in a [field hospital](#) on [Ajilon Prime](#) in [2373](#).

In an [alternate timeline](#) experienced by the Voyager crew in [2374](#), [The Doctor](#) instructed [Tom Paris](#) to treat a crewmember with damaged [lung](#) tissue with inaprovaline.

In [2375](#), The Doctor gave inaprovaline to [Seven of Nine](#) after she had been intoxicated by a single glass of [champagne](#). Later that year he administered 2 milligrams of inaprovaline to [B'Elanna Torres](#) to counter her [cytotoxic shock](#).

Not long after, The Doctor administered 20 milligrams of inaprovaline to [Tuvok](#) after he was attacked by members of [Yost's species](#) on a [planet](#) within a [subspace sinkhole](#).

The same year, The Doctor also gave 20 milligrams of inaprovaline to [Captain Kathryn Janeway](#) to cure her of her apparent [space sickness](#). Unbeknownst to them, however, she was actually suffering from the early effects of [temporal psychosis](#).

Although not mentioned in the episode, it is likely that The Doctor used inaprovaline to treat the other thirty-seven crew members who came down with acute "space sickness" at the time. To quote The Doctor himself, "An [injection](#) a day keeps space sickness away. You try to be funny after treating thirty-seven cases of nausea."

[Ensign Lyndsay Ballard](#) was treated by [USS Voyager's EMH](#) with an inaprovaline derivative he created to help reverse the effects of genetic alterations performed by the [Kobali](#), who had re-animated her [lifeless](#) corpse in accordance with their procreation customs. The injections proved to be ineffective in combating the pathogen responsible for her alteration. Changes from inaprovaline only affected Ensign Ballard's appearance, but not her genetic or physiological makeup.

Inaprovaline was mentioned on a plaque affixed to a specimen tank found in the [mirror universe's Paul Stamets](#) laboratory aboard the [ISS Charon](#). The tank contained 20 [milligrams](#) of this drug.

INTERSTITIAL FLUID

interstitial fluid was a solution that bathed and surrounded the [cells](#) of multicellular [animals](#).

In 2372, [The Doctor](#) noted that [Lieutenant Tom Paris](#)' interstitial fluids were congealing when he was admitted to [sickbay](#) after having an [allergic reaction](#) to the [water](#) in his [coffee](#).

INTRON

An intron was part of the [DNA](#) in a [gene](#) that had no function for coding in [protein](#) synthesis.

In 2370, while attempting to cure [Lieutenant Reginald Barclay](#) of [Urodelan flu](#), [Dr. Beverly Crusher](#) used a synthetic [T-cell](#) to activate the gene that would fight off the infection. The result was the [mutation](#) and activation of Barclay's dormant genes, including his latent introns, thereby creating [Barclay's Protomorphosis Syndrome](#).

KAYOLANE

Kayolane was a [sedative](#) which caused unconsciousness for several [hours](#).

In 2367, [Dr. Beverly Crusher](#) gave [Susanna Leijten](#) a [hypospray](#) of ten [cc](#)'s of kayolane after her [blood chemistry](#) was altered by alien retro-[DNA](#) and she began to exhibit strange behavior.

KELOTANE

Kelotane was a drug used to treat burns.

In 2371, Seska received three cc's of kelotane after being burned aboard a Kazon-Nistrim raider.

KETRACEL WHITE

Ketracel-white (or simply white) was an [addictive narcotic](#) containing an [isogenic enzyme](#) and nutrients. One of the active ingredients of white was [yridium bicantizine](#). The [Jem'Hadar](#) soldiers of the [Dominion](#) were [genetically engineered](#) to lack the enzyme which white provided, and required frequent doses of the [drug](#) to survive. The white also provided all the nutrients they required, alleviating them of the need to eat or drink.

Without white, Jem'Hadar soldiers suffered withdrawal symptoms including pain, anxiety, loss of mental control, and inability to "[shroud](#)"; eventually, the Jem'Hadar spiraled into homicidal insanity. First killing their enemies followed by their allies, they inevitably turned on each other. Ultimately, their entire genetic structure collapsed.

On rare occasions, a Jem'Hadar was born with a genetic mutation which allowed their bodies to produce the white they needed, though most such instances went unnoticed, as the Jem'Hadar with this mutation still took the drug on a regular basis and were unaware that they had no need to.

All known attempts to remove this genetically-engineered addiction failed, with the drug itself proving difficult to analyze and replicate by Starfleet methods. It was determined that a dose of three [cc](#)'s provided a sufficient amount to subside the patient's angst.

The addiction to white ensured the Jem'Hadars' loyalty to the [Founders](#). However, for most Jem'Hadar, this was unnecessary, as their loyalty was already absolute. Distribution of the white was controlled by the [Vorta](#), and was dispensed to the Jem'Hadar [First](#) in a formal ceremony:

Vorta: "*First [name], can you vouch for the loyalty of your men?*"

Jem'Hadar: "*We pledge our loyalty to the Founders, from now until death.*"

Vorta: "*Then receive this reward from the Founders, may it keep you strong.*"

Jem'Hadar bred in the Alpha Quadrant (called "[Alphas](#)") occasionally dispensed with the formal ceremony, claiming that their loyalty was shown by their actions rather than their words.

In the event of the death of the Vorta or the detachment of a group of Jem'Hadar from their main unit, the Jem'Hadar First could unlock the white case.

Early in the [Dominion War](#), the Dominion suffered from a white shortage due to a [minefield](#) preventing the shipment of new supplies from the [Gamma Quadrant](#). The shortage was exacerbated when the primary white storage facility was destroyed by [Starfleet](#). In a secret memorandum, [Damar](#) recommended that the last white supplies be poisoned if new supplies could not be procured.

After [Operation Return](#), the Dominion attempted to acquire the [Kabrel system](#) from the Federation under the guise of peace negotiations, as the [tri-nucleic fungi](#) on [Kabrel I](#) would have enabled them to manufacture an unlimited quantity of white. Later, the [Son'a](#) agreed to produce large amounts of white for the Dominion on [Devos II](#).

LACTIC ACID

Lactic acid ($C_3H_6O_3$) is the by product created by the [Human](#) body, formed when the body breaks down [glucose](#) to obtain [energy](#), as a result of light [muscle strain](#).

[The Doctor](#) monitored a gradual build-up of lactic acid in [Kathryn Janeway's extensor muscles](#) during her [Nechani](#) endurance ritual in [2373](#).

LECTRAZINE

Lectrazine was a compound used to stabilize the cardiovascular and renal systems of humanoids. It could also be combined with hyronalin for temporary protection against radiation poisoning.

In 2371, The Doctor administered twenty milligrams of lectrazine to Tuvok after the Vulcan began having convulsions in main engineering.

The following year, The Doctor administered twenty milligrams of lectrazine to the Vidiian doctor Danara Pel in order to stabilize her cardiovascular and renal systems.

In 2371 [Julian Bashir](#) had a nurse use lectrazine to treat a woman who suffered a spinal fracture and trauma to the cranial meninges in the [Jem'Hadar](#) attack on [Deep Space 9](#).

In 2373, The Doctor gave Kes lectrazine to counteract the disruptions in her cardiac functions. Kes attempted to give Tieran twenty milligrams of lectrazine in order to save his life, but Tieran's biochemistry was incompatible with the medication.

The Doctor gave Lieutenant Tom Paris a combination of lectrazine and hyronalin to temporarily protect him from radiation poisoning.

In 2374, The Doctor gave twenty milligrams of lectrazine to a member of the bridge crew when she was in hypertensive shock.

When given in combination with hyronalin it provides enhanced protection against radiation.

LEPORAZINE

Leporazine was a resuscitative [drug](#) used in the [2360s](#). It usually did not cause [neural metaphasic shocks](#).

In [2368](#), an injured [patient](#) from the [USS Denver](#) had too low [blood pressure](#) to be administered leporazine. An alternative would've been a [morathial series](#), though [Doctor Toby Russell](#) opted for an experimental [rybotherapy](#).

LEXORIN

Lexorin was a [drug](#) utilized during the late [23rd century](#). It was able to alleviate symptoms of malaise and/or [multiple personality disorder](#) in those who experienced a Vulcan [mind meld](#), or who carried a [Vulcan katra](#) prior to its placement on [Mount Seleya](#).

In [2285](#), [James T. Kirk](#) administered a dose of lexorin to [Leonard McCoy](#) to help him feel well enough to travel with [Spock's](#) katra to [Vulcan](#).

LIDOCAINE

Lidocaine, also known as lignocaine, is a medication used to [numb tissue in a specific area](#) (local anesthetic). It is also used to treat [ventricular tachycardia](#) and to perform [nerve blocks](#).

Lidocaine mixed with a small amount of [adrenaline](#) (epinephrine) is available to allow larger doses for numbing, to decrease bleeding, and to make the numbing effect last longer. When used as an injectable, lidocaine typically begins working within four minutes and lasts for half an hour to three hours.

Common side effects with intravenous use include sleepiness, muscle twitching, confusion, changes in vision, numbness, tingling, and vomiting. It can cause [low blood pressure](#) and an irregular heart rate. There are concerns that injecting it into a joint can cause problems with the [cartilage](#)

LIMBIC SYSTEM

The limbic system was a set of [brain](#) structures which seemed to support a variety of cerebral functions including [emotion](#).

In [2153](#), [T'Pol](#) was infected with a [microbe](#) which caused damage to her limbic system by triggering [pon farr](#).

In [2372](#), the [neuropeptide](#) levels in [Tuvok's](#) limbic systems decreased by 15 per cent, after a [mind meld](#) with [Lon Suder](#).

In [2375](#), [Julian Bashir](#) believed that a slight elevation in [Sarina Douglas' norepinephrine](#) levels was probably due to limbic overcompensation for the new [thalamic](#) connections.

LYMPHATIC SYSTEM

The lymphatic system was the bodily system that was made up of the vessels and spaces between the body [tissues](#) and the [organs](#). It was composed of the lymphatic fluid and circulated through the body.

[Triglobulin](#) had similarities to [Human](#) lymphatic fluid.

[Regulan bloodworms](#) were useful for cleansing a being's lymphatic system.

In [2151](#), [Doctor Phlox](#) discovered that the malignancy of [Nadet's](#) [interstitial tumors](#) has spread to her lymphatic system but cured her with [cytolytic injections](#).

[Elim Garak's](#) lymphatic system was damaged in [2370](#) due to his continual use of his [Obsidian Order cranial implant](#).

In [2372](#), after [Tom Paris](#) broke the [transwarp threshold](#), his lymphatic system began to collapse.

MANZENE

Manzene was a [chemical compound](#) which could produce an [electropathic pattern](#) identical to that produced by [Iresine Syndrome](#).

MASIFORM D

Masiform D was a powerful [stimulant](#) that could be administered via a [hypospray](#). It is known to cause nausea and stomach cramps in Vulcans. Potentially due to their blood chemistry.

MELENEX

Melenex was an [anesthetic](#) that was carried in [2260s Starfleet medkits](#).

In [2269](#), [Doctor McCoy](#) used melenex to make [Spock](#) appear ill, fooling the [computer](#) that controlled the [Shore Leave Planet](#). McCoy described the effects of melenex as "brief unconsciousness and temporary [skin discoloration](#)," adding, "It looks worse than it is." Once the doctor dosed Spock with ten [ccs](#) of melenex via [hypospray](#), McCoy told Spock that it would take ten [seconds](#) to take effect, resulting in unconsciousness for less than five [minutes](#).

MELORAZINE

Melorazine was a standard [sedative](#).

According to his [medical file](#), [Spock](#)'s physician recommended that he be treated with melorazine, as well as [dylamadon](#), [axonol](#), [tetrovaline](#) and [cortropine](#), when he had himself admitted to the psychiatric ward of [Starbase 5](#).

In [2369](#), [Nurse Ogawa](#) administered a dose of 20 [ccs](#) to [Deanna Troi](#) in order to stop her struggles while she was being treated in a [biobed](#).

MERFADON

Merfadon was a type of [sedative](#).

In [2373](#), [Silaran Prin](#) used merfadon to sedate [Kira Nerys](#) with the intention of removing the unborn [Kirayoshi O'Brien](#), so that no innocents would die when he [murdered](#) her for disfiguring him. However, the [makara herbs](#) Kira took for her [pregnancy](#) counteracted the drug, allowing her to deceive and subdue Prin.

METORPAN

Metorapan was an [analgesic medication](#), which could be substituted with [bicaridine](#).

METRAZINE

Metrazene was a drug used to treat cardiac arrhythmias.

In 2367, Dr. Crusher asked Nurse Ogawa for two hundred milligrams of the drug when William T. Riker was having the Odan symbiont implanted.

MEXHOHEXITAL

Mexhohexital was a drug in use on [Earth](#) during the early [21st century](#).

In [2004](#), [Loomis stole](#) some mexhohexital from a [blood bank](#) at which he worked to [sedate](#) his victims, whom he was delivering to the [Xindi-Reptilians](#) for whom he was working.

MORATHIAL

Morathial was a [drug](#), similar to [leporazine](#), that was used to treat severely injured medical patients.

MORPHENOLOG

Morphenolog was an [analgesic drug](#). In [2371](#), Dr. [Julian Bashir](#) gave [Vedek Bareil](#) a two [cc](#) dose of morphenolog to ease the pain being caused by damage to his left [parietal lobe](#) due to ongoing treatments with [vasokin](#).

MUCILAGINOUS COMPUND

Mucilaginous compound was a mucous substance secreted by the [macrovirus](#), composed of [amino acids](#), [proteins](#), and [DNA](#). The compound could transmit the viral infection to new hosts, and in the macrovirus' largest stage can be ejected in a stream from its stinger.

When the macrovirus infected the [USS Voyager](#) in [2373](#), mucilaginous compound was left throughout the ship. [Neelix](#) was struck by the compound, causing rapid [fever](#) and other symptoms.

Mucilaginous compound was also found in one of the ship's [bio-neural gel packs](#).

Evidently was is highly flammable; a single [phaser](#) shot could blow up a macrovirus, regardless of setting.

NASAL NUMBING AGENT

A nasal numbing agent was an [injection](#) to reduce the perception of [body odours](#). [Sub-Commander T'Pol](#) took injections to reduce the [smell Humans](#) produce. While being held [hostage](#) at the [monastery](#) at [P'Jem](#), she told [Captain Jonathan Archer](#) about the difficulties to share a [blanket](#) with him because she had her last nasal numbing agent over twenty-four [hours](#) ago.

NETINALINE

Netinaline was a [stimulant](#) used to [resuscitate](#) a patient.

In [2371](#), [The Doctor](#) administered 2 [ccs](#) of netinaline to the [Vhnnori Ptera](#) to revive her.

NEURAL PARALYZER

A neural paralyzer was a [central nervous system](#) depressant, standard in [Starfleet medkits](#) in the [23rd century](#). Used in surgery as a pre-anesthetic, it acted within five to ten minutes and lasted for fifteen to twenty minutes to depress [cardiac](#) and [respiratory](#) functions, incidentally making the subject nearly appear dead.

In [2267](#), [Doctor Leonard McCoy](#) injected [James T. Kirk](#) with a neural paralyzer to simulate Kirk's [death](#) so that [Spock](#) could complete the [koon-ut-kal-if-fee](#) without actually killing Kirk.

NEURAL METAPHASIC SHOCK

Neural metaphasic shock was a complete and total failure of the [nervous system](#) in a [humanoid](#), typically resulting in [death](#).

In [2368](#), [Doctor Toby Russell](#) treated a [crash](#) victim from the [USS Denver](#) with [borathium](#), which resulted in neural metaphasic shock and, finally, death.

NEURAL SHOCK

Neural shock was a [medical condition](#) that occurred when someone's [neural pathways](#) suffered a [shock](#).

In [2368](#), [Captain Jean-Luc Picard](#) went into neural shock when [Beverly Crusher](#) tried to revive him with a [cortical stimulator](#) following his exposure to the [Kataan probe](#).

In [2369](#), [Geordi La Forge](#) almost died of neural shock after being attacked by an [alien](#) who had assumed the body of a [Romulan](#).

In [2370](#), [Deanna Troi](#) claimed Picard had gone into neural shock after a jolt from a [Borg force field](#). This was a ruse.

Later that year, La Forge went into neural shock after touching an alien in the form of [his mother](#), activating a cut-off in his [interface suit](#).

In [2371](#), [Jadzia Dax](#) fell into neural shock upon seeing a picture of her unknown [host](#), [Joran Belar](#).

In [2374](#), [Seven of Nine](#) went into neural shock after a [Borg implant](#) pressed against her [trochlear nerve](#).

In [2376](#), [Lansor](#), [P'Chan](#), and [Marika Wilkarah](#) all went into neural shock after Seven's [neural interface](#) was abruptly severed from theirs and overloaded their [cortical implants](#).

In [2377](#), Seven's [cortical node](#) shutting down caused her to enter neural shock on the [holodeck](#).

NEURO-STIMULANT

A neuro-stimulant was a [drug](#) administered to keep a patient from falling asleep.

[Doctor Beverly Crusher](#) injected [Commander William T. Riker](#) with a neuro-stimulant to counteract the [neuro-sedative](#) given to him by [solanogen-based lifeforms](#) whenever they abducted him into their realm. The stimulant would keep him awake when entering their realm through a [spatial rupture](#). It was given to him before being taken for the final time by the aliens. The Doctor had to inject him with a very high dosage, as the [alien sedative](#) was very strong and warned him that the procedure might be risky. In this case the drug did work to keep him awake without any major side effects.

NEUROLEPTIC SHOCK

Neuroleptic shock was an adverse [nervous system](#) condition caused by certain types of [energy](#). The experience of a neuroleptic shock was quite painful.

In early [2373](#), [Kes](#) suffered a severe neuroleptic shock after inadvertently entering a [Nechisti shrine](#) surrounded by a powerful [biogenic field](#). The shock disrupted her [synaptic functions](#), resulting in a state similar to a [coma](#) but without the biochemical markers. After undergoing a [Nechisti](#) ritual, [Captain Kathryn Janeway](#) was able to heal her by taking her back into the shrine.

When the [Srivani](#) infiltrated the [USS Voyager](#) in [2374](#), [The Doctor](#) believed that he could neutralize their [genetic tags](#) on the crew using a neuroleptic shock. [Seven of Nine](#) attempted to modify the ship's [EPS relays](#) to generate the shock without alerting the Srivani, but was unsuccessful.

In [2376](#), [Tuvok](#) entered neuroleptic shock after being struck by a [Ba'Neth directed energy weapon](#). The Doctor was able to stabilize him by administering [synaptizine](#), but Tuvok suffered damage to his cognitive, [logic](#), and [memory](#) centers.

NEUROPEPTIDE

A neuropeptide is any of a family of [molecules](#) formed by a short chain of [amino acids](#) and which plays a role in [humanoid brain](#) activity. An increase or decrease in neuropeptide levels may be a cause or symptom of abnormal brain activity.

In [2372](#), the neuropeptide levels in [Tuvok's limbic systems](#) decreased by 15 per cent, after a [mind meld](#) with [Lon Suder](#).

An overabundance of neuropeptides was the scientific explanation offered by [Doctor Julian Bashir](#) in [2373](#) for [Captain Benjamin Sisko's Orb shadow hallucinations](#). These can occur a long time after a direct [Bajoran Orb](#) experience. Sisko accepted treatment to restore his neuropeptide levels and make the visions stop.

Also in [2373](#), [The Doctor](#) noted that [Kathryn Janeway's](#) neuropeptides had risen to an abnormal level during her [Nechani](#) endurance ritual.

When a Human is made part of a [Borg neural link](#) via a [neural transceiver](#), its neuropeptide levels became abnormally high until the connection was severed. [Chakotay](#) experienced this in [2373](#), and [The Doctor](#) hypothesized that this increased his [telepathic](#) receptivity.

In [2378](#), [Lieutenant Commander Tuvok](#) required [fal-tor-voh](#), a treatment for a [Vulcan](#) degenerative neurological disease, which involves receiving a [mind meld](#). The disease causes the neuropeptide levels in the Vulcan brain to decrease, and affects their [logic](#) capabilities.

NEUROZINE

Neurozine was an [anesthetic](#) that was used during the late [24th century](#) and that could be dispensed in [gaseous](#) form. In [2374](#), neurozine, [axonol](#), and [anesthezine](#) were considered to be "only the best."

That [year](#), [The Doctor](#) and [EMH Mark II](#) used three canisters of neurozine gas, distributed through the [ventilation system](#), to incapacitate the [Romulans](#) who had [hijacked](#) the [USS Prometheus](#).

NIACINAMIDE

Niacinamide ($C_6H_6N_2O$) is a bitter [crystalline](#) amide of the [vitamin B](#) complex formed from and converted to niacin in the living organism.

NILIZENE

Nilizene was a [chemical compound](#) which was a byproduct of [dardilion](#). It was not routinely [scanned](#) for by [sensors](#) on [Galaxy-class starships](#).

NOGATCH HEMLOCK

Nogatch hemlock was a [poisonous](#) substance.

In [2372](#), [Q](#) gave [Quinn](#) a rare form of Nogatch hemlock so that he could commit [suicide](#). [USS Voyager's Doctor](#) stated that the [drug](#) was not available in the [ship's medical](#) stores, and it being a fatal poison the ship's [replicators](#) would not produce it either.

OLYGEMIC SHOCK

Olygemic shock was a type of [shock](#) that could lead to [death](#).

In [2154](#), [Hoshi Sato](#) went into olygemic shock when a [silicon-based virus](#) attacked her [blood cells](#).

PALMITATE

Palmitate was an antioxidant and a [vitamin](#). A compound added to fatless [milk](#) to replace the vitamins lost through the removal of milk fat.

PHEROMONE

A pheromone was a [chemical](#) secreted by a [lifeform](#), that had an effect on another lifeform.

[Locator bombs](#) worked by homing in on an individual's pheromones.

[Orion slave girls](#) secreted a highly potent pheromone that accelerated the metabolisms of [males](#) of many [species](#), raising [adrenaline](#) production to dangerous levels. It caused aggression and a form of delusion that made them susceptible to suggestion. The pheromone caused [headaches](#) in [Human females](#) and disrupted the [sleep](#) cycle of [Denobulan](#) males; [Vulcans](#), however, were immune. The pheromone's effects were cumulative; the longer one was exposed, the more

pronounced the results. In [2154](#), [Doctor Phlox](#) of [Enterprise NX-01](#) theorized that the pheromone acts as a defense mechanism against competition.

Pheromones are the reason for the [Deltans](#) being viewed as sexually attractive by other species.

[Denobulan females](#) emitted powerful pheromones during their mating season. Male Denobulans often became combative during this time, and [mating](#) could require [medical](#) supervision.

In [2370](#), [Captain Picard](#) used pheromones from [Deanna Troi](#) to lure [Worf](#) while they all suffered from [Barclay's Protomorphosis Syndrome](#).

[Ramurans](#) produced pheromones that prevented the formation of long-term [memory engrams](#) in other species they interacted with.

In [2375](#), [One](#), an advanced [Borg drone](#) with [29th-century technology](#), detected an elevated pheromonal response in a [USS Voyager crew](#) member, indicating that she was [afraid](#) of him.

POLYADRENALINE

Polyadrenaline was a synthetic version of the [hormone epinephrine](#), also known as [adrenaline](#). It was designed as a [stimulant](#) which could aid in the revival of a [patient](#) who had died or was near [death](#).

Dr. [Beverly Crusher](#) used 25 [ccs](#) of polyadrenaline to assist [Worf's Klingon physiology](#) in reviving his systems after his entire [spinal column](#) was replaced by the [genetronic replicator](#) in [2368](#)

POST NEURAL SHOCK SYNDROME

Post-neural shock syndrome was a [medical condition](#) in which the patient experienced the sensation of more pronounced external stimuli. Colors seemed more pronounced, shapes more defined. The condition was associated with unusual [synaptic potentials](#).

In [2373](#), [Benjamin Sisko](#) suffered temporary post-neural shock syndrome following an accident in which he was exposed to a [plasma](#) burst.

PROGESTERONE

Progesterone was a steroid [hormone](#) involved in the [female](#) menstrual cycle, [pregnancy](#) and [embryogenesis](#) of [humanoids](#) and other species.

In [2372](#), [Doctor Julian Bashir](#) stimulated [Kira Nerys'](#) [estrogen](#) and progesterone production to enable [a Human baby](#) that she was [carrying](#) to be able to metabolize [Bajoran](#) nutrients.

[Makara herbs](#) were typically used by Bajoran [women](#) to increase their progesterone levels when pregnant.

PROSTAGLANDIN

Prostaglandin was a [hormone](#)-like substance that performed a wide range of functions in the body, such as stimulating contractility of the [uterus](#) during labour.

In [2372](#), [The Doctor](#) found that [Samantha Wildman's](#) prostaglandin levels were normal when she was giving [birth](#) to [her daughter](#).

PSYCHOTROPIC DRUG

A psychotropic [drug](#) or psychotropic [compound](#) was a [chemical](#) that altered [brain](#) function in such a way as to affect mood, consciousness, perception, or behavior. These effects were usually temporary.

On [Earth](#), some [Humans](#) used a psychotropic drug known as [LSD](#), which was responsible for impacting the minds of former users negatively later in their life.

In [2151](#) an [away team](#) from [Enterprise NX-01](#) fell victim to a naturally occurring psychotropic compound, known as [tropolisine](#) on an uninhabited [Class M planet](#) later named [Archer IV](#).

Later that year, [Captain Jonathan Archer](#) scanned for psychotropic compounds on the [rogue planet Dakala](#), finding none, to convince [T'Pol](#) that he was not [hallucinating](#) a woman in the [jungle](#).

The [Ktarian game](#) was stimulating the [brain](#) similar to a psychotropic drug.

[Empok Nor](#) had been the site of a failed experiment by the [Cardassians](#) to use psychotropic drugs to enhance Cardassian [xenophobia](#), in order to create more effective soldiers. Three members of the [Third Battalion, First Order](#) were treated to the drug, and left behind in [stasis tubes](#) when the [station](#) was abandoned. The two surviving members were awakened in [2373](#) by

a [Starfleet](#) salvage team, who killed three members of the team before being killed by [Elim Garak](#), who had also been exposed to the drug. The drug caused Garak to kill a fourth member of the team before he was neutralized by [Chief Miles O'Brien](#).

QUADROLINE

Quadroline was an emergency resuscitative [drug](#) used on [Malcor III](#) to treat cardiac arrhythmias.

In [2367](#), [Tava](#) administered 15 [octares](#) of quadroline to [William T. Riker](#) at the [Sikla Medical Facility](#).

RNA

Ribonucleic acid (RNA) is a substance found in all living [cells](#) which acts as a controller of [protein](#) synthesis. It is similar in construction to its counterpart deoxyribonucleic acid ([DNA](#)), with the replacement of ribose for deoxyribose and the pyrimidine uracil for thymine. RNA also commonly acts as the [genome](#) for the majority of [viruses](#), rather than [DNA](#).

In [2154](#), [Doctor Phlox](#) managed to identify an RNA sequence that could act as an off switch for the [Klingon augment virus](#).

Following his exposure to a [quantum fissure](#) in [2370](#), [Worf's](#) cellular RNA was thrown into a state of flux which extended to the subatomic level. This was the first clue to the nature of Worf's quantum disassociation; essentially he was in the wrong [quantum reality](#).

The RNA of the [Dominion's](#) [Teplan blight](#) virus was found to be difficult to recreate, thus hindering [vaccination](#) efforts.

- [mRNA](#) - mRNA, [short for](#) messenger RNA, was a sub-type of [RNA](#). In [2257](#), [Commander Michael Burnham](#) commented that her mRNA was a close genetic match to the [DNA](#) of her mother, [Gabrielle Burnham](#), when discussing the possibility of creating a new [time suit](#).
- [Memory RNA](#) - Memory RNA was a sub-type of [RNA](#). In [2366](#), [Lt. Commander Geordi La Forge](#) suggested that the storage capsule found in the [Zalkonian escape pod](#) employed memory RNA like an organic [cell](#).
- [Temporal RNA sequencing](#) - Temporal RNA sequencing, sometimes shortened to temporal sequencing, was a method of [cloning](#) whereby the clone's aging process could be artificially accelerated so as to allow the clone to quickly reach a certain age. Temporal [RNA](#) sequencing was a built-in attribute of the clone in question, and needed to be activated before a certain point, or the clone would begin to experience a breakdown of the [cellular structure](#), eventually resulting in [death](#). When this breakdown occurred, the only thing capable of saving the clone's life was a complete [blood transfusion](#) from the lifeform who had provided the clone's original genetic material.

Such a condition occurred to [Shinzon](#), a clone of [Starfleet Captain Jean-Luc Picard](#), who was designed to skip nearly thirty years of his life so that he could eventually replace Picard. However, when the plan to replace Picard was deemed too risky, it was abandoned and Shinzon was exiled to the [dilithium mines](#) on [Remus](#).

In [2379](#), Shinzon, at that point a young man, began to manifest the symptoms of the cellular breakdown, symptoms which were only eased by the [telepathic](#) stabilization of his [Reman Viceroy](#). Shinzon instituted a plan to [kidnap](#) Picard and perform the transfusion, but failed in his attempt, ultimately dying in hand-to-hand combat with his progenitor.

SAPONIN

Saponin was a [plant](#) product which could be [poisonous](#).

A substance from the [thorns](#) of the [Gamma Trianguli VI pod plant](#) encountered in [2267](#) was similar to saponin, but 1,000 times stronger. The effects of the pod plant's poison on [Spock](#) could be countered with a very high dose of [Masiform-D](#).

SILICON BASED VIRUS

A silicon-based virus was found on an [unnamed planet](#). It was not really a [virus](#), though that was the closest known classification in [Human](#) and [Denobulan medical](#) science. Nothing resembling it could be found in the [Denobulan medical database](#).

Since [silicon-based life](#) doesn't generally [evolve](#) on [class M planets](#), it was theorized that the infectious [microorganism](#) was brought there on a [meteorite](#), a theory substantiated by the presence of a meteor [crater](#) close to the point of infection. The [Organians](#) claimed they had nothing to do with placing the virus on the planet.

The virus was hard to detect, as only thirty-seven percent of the [species](#) that contracted the virus in the ten thousand years preceding [2154](#) identified the [pathogen](#). Amongst its symptoms were passing out, [coughing](#), [vomiting](#), physical pain, [sweating](#), and apparently mental confusion. Due to the high rate at which the pathogen [reproduced](#), [death](#) came within hours. The silicon matrix of the pathogen could be disrupted by a specific frequency of [radiation](#), but the dosage would be lethal for Humans.

Only seven species discovered this in the ten-thousand-year period, and none in sufficient time to save themselves.

The reaction of visiting [crews](#) to the virus had been studied by Organian observers for ten thousand years, though this fact had gone unnoticed by ninety-eight percent of the species. The

rationality displayed by a species while dealing with the virus was evaluated and treated as a litmus test to find out if [first contact](#) should be made.

The virus had infected several species in the last ten thousand years, including [Cardassian](#) and [Klingon](#) crews, although the latter was killed by their [commanding officer](#). In cases where the crew did not abandon the infected crewmen, everyone usually died.

In 2154, the virus infected [Hoshi Sato](#) and [Commander "Trip" Tucker](#) from the [NX-class starship Enterprise](#). Ultimately, a cure was found, but not in time, and Sato therefore died. However, impressed by compassion displayed by [Captain Jonathan Archer](#), one observing Organian cured and reanimated Tucker and Sato. Enterprise left a [warning beacon](#) in [orbit](#) of the planet, in order to prevent further infections.

SODIUM PENTATHOL

Sodium Pentathol (generic name, thiopental sodium ($C_{11}H_{17}N_2O_2SNa$)) was a compound which was used as a type of "[truth serum](#)" on [Earth](#) during the mid-[20th century Earth](#).

While he was stuck in [1947 Earth](#), the [United States of America's Army Air Forces](#) used Sodium Pentathol on [Quark](#) in an attempt to gain information about an anticipated attack from [Mars](#). However, several injections of the drug did not produce results, although Quark's loud, high-pitched screams for mercy led [Captain Wainwright](#) to make physical threats instead.

SONAMBUTRIL

Sonambutril was a strong [sedative](#) used for medical purposes. It was in use during the mid-[22nd century](#).

When [Hoshi Sato](#) and [Trip Tucker](#) caught a [strain](#) of a [silicon-based virus](#) in [2154](#), [Phlox](#) ordered them to use sonambutril after Sato was able to escape confinement. The sedative was able to knock out both officers for a long period of time.

SUGARS

FRUCTOSE

Fructose is a very sweet simple [sugar](#) commonly derived from [fruits](#). The name is an amalgamation of "fruit" and the suffix "-ose".

In [2367](#), [Guinan](#) prepared a [drink concoction](#) consisting mostly Saurian brandy along with [Targ milk](#) and [Denebian mead](#), after hearing about it on [Prakal II. Lieutenant Commander Data](#) observed that the drink contained a high concentration of fructose and [monosaccharides](#), which Guinan interpreted as it being too sweet.

GLUCOSE

Glucose ($C_6H_{12}O_6$), also known as dextrose, was a simple [sugar](#) and [carbohydrate](#) that was used as an ubiquitous fuel in most organisms. It served as a source of [energy](#) in [biological cells](#). Naturally, it was found in [fruits](#) as [fructose](#) and in [milk](#) as [lactose](#). In [humanoid](#) bodies, it was formed in the [liver](#) and [kidneys](#) by non-carbohydrate intermediates. Glucose was the main product of [photosynthesis](#) in [plants](#), aiding in cellular respiration.

In [2256](#), the sporal therapy used to treat [Paul Stamets' coma](#) caused an increase in his glucose production.

Among the symptoms of [rop'ngor](#) was [fainting](#), a condition that [Worf](#) experienced following his contraction of the disease in [2365](#). While Worf denied fainting, [Doctor Katherine Pulaski](#) went as far as to rephrase herself, describing his condition as a dramatic drop in [blood pressure](#) and blood glucose level, leading to [circulatory failure](#), causing unconsciousness.

Following [Tam Elbrun's](#) initial contact with [Gomtuu](#) in [2366](#), his [brain](#) activity suggested that he had just come out of some sort of [seizure](#). In addition, his blood pressure and glucose indicated general systemic stress.

In [2367](#), as [Data](#) and [Jenna D'Sora](#) were in the process of sitting down for a meal, Data was attempting to explain to her that effects of a low serum glucose level before she interrupted them to discuss their relationship.

In [2370](#), [Quark](#) tried to fix a [racquetball](#) match between [Julian Bashir](#) and [Miles O'Brien](#) by attempting to drug the doctor with a herbal beverage consisting of [water](#), [sucrose](#), dextrose, general [root](#) extract, [grain](#) particulates, [yeast](#), [synthohol](#) and the [anesthetic hyvroxilated quint-ethyl metacetamin](#). Bashir was unamused.

[Kathryn Janeway](#) used a glucose bait in [2372](#) in her attempt to capture a type of burrowing insect to find a cure for the [virus](#) she and [Chakotay](#) contracted from it while on [New Earth](#).

In [2373](#), when [The Doctor](#) introduced [B'Elanna Torres](#) to [his family](#), which was described by her as being a "fantasy" and "ridiculously perfect", she paused the program, explaining that she was "stopping this before [her] blood sugar levels overload."

SUCROSE

Sugar, known [chemically](#) as sucrose ($C_{12}H_{22}O_{11}$), is a naturally-derived, white, crystalline [foodstuff](#) most often used for sweetening other [desserts](#) or [beverages](#). Other forms of sugar include [fructose](#), [glucose](#) (aka [blood](#) sugar), and [lactose](#).

In [2370](#), [Quark](#) tried to fix a [racquetball](#) match between [Julian Bashir](#) and Miles O'Brien by attempting to drug the doctor with a herbal beverage consisting of [water](#), sucrose, [dextrose](#), general [root](#) extract, [grain](#) particulates, [yeast](#), [synthelol](#) and the [anesthetic hyvroxilated quint-ethyl metacetamin](#). Bashir was unamused.

In [2151](#), [Trip Tucker](#) asked [T'Pol](#) if she wanted a bite of his [pecan pie](#) to taste. She refused as the [dessert](#) was "mostly sugar." Trip retorted that "[Vulcans](#) don't have a [sweet tooth](#)" and that it "may not be good for the body, but it sure is good for the [soul](#)." T'Pol stated, "[Ingesting](#) sugar dramatically disturbs [hormonal](#) levels, often resulting in [headache](#) and reduced [energy](#)."

In [2347](#), a seven-year-old [Ro Laren](#) was given a piece of sugar candy by a [Cardassian](#) who led her to a room where she found her father sitting inside. For the next two hours, she was forced to sit and watch as a Cardassian questioned and tortured her father until he died.

SYNAPTIZINE

Synaptizine was a drug used to treat [neuroleptic shock](#).

In [2376](#), [The Doctor](#) asked [Neelix](#) for 20 [milligrams](#) of synaptizine to treat the neuroleptic shock [Lieutenant Commander Tuvok](#) suffered after being attacked by the [Ba'Neth](#). The drug was not successful.

TERAKINE

Terakine was an [analgesic medication](#). In [2370](#), [Commander William T. Riker](#) received ten [cc's](#) of terakine to alleviate the pain from a [rib broken](#) during [bat'leth](#) training with [Lt. Worf](#).

TETROVALINE

Tetrovaline was a [sedative medical drug](#) used to knock a person unconscious. One [side effect](#) was a lowered immune response.

According to his [medical file](#), [Spock's physician](#) recommended that he be treated with tetrovaline, as well as [dylamadon](#), [melorazine](#), [axonol](#) and [cortropine](#), when he had himself admitted to the psychiatric unit of [Starbase 5](#).

It was also carried aboard the [Delta Flyer](#). In [2376](#), when [Crewman Telfer](#) had a [dark matter lifeform](#) inside him, he asked to be put under with tetrovaline, but [Captain Janeway](#) refused because he needed to keep his immune response up.
forma

THERALGEN

Theragen was a [chemical](#) compound initially developed as a [nerve gas](#) by the [Klingons](#). In its pure form it was lethal, but when diluted with [alcohol](#) it could temporarily deaden certain [nerve](#) inputs to the [brain](#), having a calming effect on an [insane](#) and/or abnormally enraged person.

A theragen derivative was first used as an effective treatment on the crew of the [USS Enterprise](#) in [2268](#), following an extended interaction with the effects of [interphase space](#). [Leonard McCoy](#), the ship's [chief medical officer](#), discovered how to use the theragen derivative to ameliorate the baneful effects on the crew long enough for the Enterprise to complete her mission. After asking McCoy whether it would mix well with [scotch](#) (which the doctor believed it would), [Montgomery Scott](#) happily absconded with the remainder of the derivative.

The usual dilution ratio is listed there as 3 ccs of theragen to 500 ccs of alcohol, specifically ethanol.

TRI-OX COMPOUND

This common drug is injected to allow humanoids to function more comfortably and safely in low oxygen environments. It works by releasing oxygen directly into the patient's bloodstream. Each injection provides additional oxygen to the patient for up to an hour or two.

TRIANOLINE

Trianoline was a [medicine](#) used on [patients](#) with [percussive injuries](#).

In [2371](#), 0.4 [ccs](#) of trianoline was the typical dosage for a [patient](#) with a [concussion](#). [The Doctor](#) ordered this dosage for a patient aboard [USS Voyager](#) in [2371](#)

TRICORDRAZINE

A more powerful derivative of Cordrazine that if overdosed on can temporarily produce both delusions and violent paranoia.

Tricordrazine was a potent [stimulant](#), originally derived from [cordrazine](#), and commonly used in resuscitation in the [24th century](#). The drug was highly potent; [25 ccs](#) of the drug was enough to kill a [Klingon](#). It was also used as an anti-[seizure](#) medication.

TRINEPHEDRINE

Trinephedrine was a resuscitative [drug](#).

In [2154](#), [Jonathan Archer](#) injected forty units of trinephedrine directly into [Hoshi Sato's heart](#) through a hypodermic [needle](#) when she went into [oligemic shock](#)

TRIPTACEDERINE

Triptacederine was an [analgesic medication](#). In [2370](#), [Elim Garak](#) took "a mere thirty [ccs](#)" of triptacederine to alleviate the pain caused by his [cranial implant](#), which would usually be enough to anesthetize an [Algorian mammoth](#).

During the final stage of his [Yarim Fel Syndrome](#) in [2373](#), [Tekeny Ghemor](#) was administered triptacederine to minimize the pain.

TROPOLISINE

Tropolisine was a [psychotropic compound](#) known for its [hallucinogenic](#) effects. Normally found in certain [flowering plants](#), each tropolisine [atom](#) contained a stray [neutron](#). Once it started to break down in a [humanoid's bloodstream](#) it released an undetectable [toxin](#).

In [2151](#), while exploring an uncharted [M-class](#) planet later named [Archer IV](#), the crew of [Enterprise NX-01](#) became affected by tropolisine that was blown down from the [mountains](#) during a windstorm. It was discovered by [Dr. Phlox](#) that [inaprovaline](#), combined with being removed from the [pollen](#)-saturated environment would allow the effects of tropolisine to dissipate.

By the early [23rd century](#), a permanent cure for the hallucinogenic effects of tropolisine had been found, allowing [Humans](#) to settle [the planet](#).

VASOKIN

Vasokin was an experimental drug which increased blood flow to humanoid organs. Unfortunately, in 22% of studied cases it caused severe damage to the lungs, kidneys, heart, and brain. In 2371, Dr. Julian Bashir administered Vasokin to Vedek Bareil in an attempt to save his life.

VERIDIUM SIX

Veridium Six was a [lethal poison](#) effective against [Klingons](#). It had no known [antidote](#).

In early [2367](#), [Chancellor K'mpec](#) was poisoned with Veridium Six by agents of the House of Duras. The poison slowly built up through small doses introduced into his [bloodwine](#) until the level became fatal.

VULCAN NEURO-PRESSURE

Vulcan neuro-pressure was a mental and physical technique for relaxing the [mind](#) and [muscles](#). It involved stimulating [neural nodes](#) and pressure points in a [Vulcan](#) or [Human](#) body. A highly specialized discipline, neuro-pressure involved numerous techniques, was extremely difficult to learn, and took years to master. Also being very personal, it required a great deal of physical contact.

One of the techniques involved in neuro-pressure was a specific [breathing](#) method. Other neuro-pressure techniques included the [surah'tahn](#) and the [Khavorta posture](#) (the latter of which was difficult because of the necessity for not only a certain breathing method but also a relaxed [jaw](#)). An application of neuro-pressure for combat was the so-called [Vulcan nerve pinch](#).

Neuro-pressure could result in [paralysis](#), but the risk of that (at least when neuro-pressure was done by a skilled practitioner) was minimal. Neuro-pressure conducted by a novice could also result in the recipient experiencing [headaches](#) or even receiving nerve damage.

CERVALINE

An antirejection drug used to prevent rejection of transplanted tissue. To prevent a patient's body from rejecting a transplant, this drug must be given every few hours throughout the entire healing process.

CORDRAZINE

This powerful stimulant is used for patients experiencing cardiac arrest, to revive unconscious or comatose patients, or to stabilize patients who had come in contact with a dangerously powerful chemical that is depressing their metabolism. A more powerful version called tricordrazine is also widely used. An overdose of cordrazine can temporarily produce both delusions and violent paranoia.

COROPHIZINE

An antibiotic often used to prevent secondary infections caused by other illnesses.

CORPELOMINE

Corpelomine is an alternate anesthetic to Melenex that was carried in 2260's Starfleet medkits. It was said to take approximately twenty seconds to take effect rather than the exact ten seconds of Melenex.

CORTOLIN

This drug helps restore normal breathing functions in humanoids who have stopped breathing due to injury.

CPK ENZYMATIC THERAPY

CPK enzymatic therapy was a 24th century medical treatment used to limit the extent of neurological damage after a catastrophic injury. The therapy was not completely effective for all injuries or all species, such as Klingons.

Dr. Beverly Crusher tried CPK enzymatic therapy on Lieutenant Worf following his spinal cord injury in 2368, but his condition did not improve.

DERMALINE

Dermaline was an injectable drug used to prevent sunburns.

In 2376, Neelix was so excited to be on a beautiful Norcadian beach that he forgot to take his dermaline injection. As a result, he ended up with severe burns from the planet's two suns, which he treated with leola ointment.

Dermaline gel was made from dermaline and used as a treatment for first and second degree burns, such as those in injuries caused by a ruptured nitrogen line.

Doctor Phlox used dermaline gel to treat an engineer who received first degree burns when a nitrogen valve seal blew in 2151.

In 2372, Kes was told by The Doctor to treat a crewman's second degree burns with dermaline gel.

DYLAMADON

Dylamadon was a [sedative](#) that could simulate [death](#) in an individual.

According to his [medical file](#), [Spock](#)'s physician recommended that he be treated with dylamadon, as well as [axonol](#), [melorazine](#), [tetrovaline](#) and [cortropine](#), when he had himself admitted to the psychiatric ward of [Starbase 5](#).

In [2369](#), [Counselor Deanna Troi](#) was given dylamadon in order to trick [Ves Alkar](#) into breaking his detrimental [psychological](#) link with her.

DYLOVENE

A broad-spectrum antitoxin that is commonly used when someone has been poisoned by an unknown substance.