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# **Chronic Spontaneous Urticaria (CSU) and Homoeopathy**

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© Dr. Rajneesh Kumar Sharma M.D. (Homoeopathy)  
Homoeo Cure & Research Institute  
NH 74, Moradabad Road, Kashipur (Uttaranchal)  
INDIA, Pin- 244713  
Ph. 05947- 260327, 9897618594  
[drrajneeshhom@hotmail.com](mailto:drrajneeshhom@hotmail.com), [drrajneeshhom@yahoo.co.in](mailto:drrajneeshhom@yahoo.co.in)

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## **Definition**

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Urticaria (Psora+++/ Sycosis++/ Syphilis+) is a transient condition of the skin, usually caused by an allergic reaction (Psora), characterized by pale or reddened irregular, elevated patches and severe itching (Psora).

## **Synonyms**

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Urtication, urticaria, hives, nettle rash, rash, roseola, efflorescence, skin rash, hypersensitivity reaction.

Urticaria may be acute or chronic.

### **Acute urticaria**

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It appears and disappears suddenly without many recurrences. (Psora)

### **Chronic urticaria**

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Wheals and/ or angioedema lasting > 6 weeks (Psora/ Sycosis)

### **Classification of Chronic Urticaria Subtypes**

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- 1- CSU- Spontaneous appearance of wheals (Psora), angioedema (Sycosis), or both >\_ 6 weeks due to known or unknown causes. Known causes include infections or auto reactivity (Causa occasionalis/ Tolle causum) i.e. presence of mast cell- activating autoantibodies (Psora).
- 2- Inducible Urticaria-
  - a. Physical urticaria-
    - i. Symptomatic dermographism- also called urticarial factitia or dermographic urticarial (Psora)
    - ii. Cold urticarial- also called cold contact urticarial (Psora)
    - iii. Delayed pressure urticarial- also called pressure urticarial (Psora)
    - iv. Solar urticarial (Psora)
    - v. Heat urticaria- also called heat contact urticarial (Psora)

### **Chronic Spontaneous Urticaria (CSU)**

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It is the type of chronic urticaria which is spontaneous (No external physical stimuli) and has development of wheals, angioedema, or both for > 6 weeks (Psora/ Sycosis)

- 1- Wheals
  - a. Central swelling of variable size, usually surrounded by a reflex erythema (Psora)
  - b. Associated itching or, sometimes, burning sensation (Psora)
  - c. Resolve within 1- 24 hours
- 2- Angioedema
  - a. Sudden, pronounced swelling of the lower dermis and subcutis (Psora/ Sycosis)

- b. Sometimes pain rather than itching (Psora)
- c. Frequent involvement below mucous membranes (Sycosis)
- d. Up to 72 hours for resolution

NB- Wheals resolve as new ones form, such that CSU patients continually have wheals for > 6 weeks

## **Prevalence of CSU**

- 1- Urticaria of any type is very common and increasing in incidence
- 2- Women to men ratio is 2:1
- 3- All age groups are affected but peak incidence is between 20- 40 years of age (Working years)
- 4- No relationship between urticaria prevalence and education, income, place of residence or ethnic background

## **Pathogenesis of CSU**

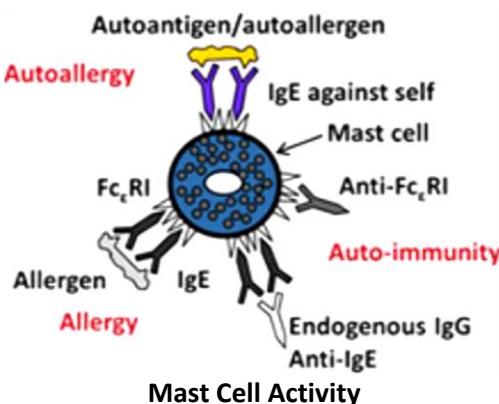
### Triggering-

Triggers like- heat, cold, exercise or undefined, including- anphylatoxins, neuropeptides, bacteria, interleukins, chemokines, oxytocin, leukotriene, POMCs (Pro-opiomelanocortin), prostaglandins, cannabinoids, adenosine, urokinase, capsaicin etc. affect- IgE, FCeRI, SCF (Stem Cell Factor), IgG, FcyR, LPS, TLRs (Toll-like receptor), Complement. (Tolle causum/Causa occasionalis).

These factors work to induce mast cell activity. Mast cells are the key effectors cells in the induction of urticaria symptoms.

### Mast cells activity-

Cutaneous mast cells release mediators in response to various factors including drugs, peptides and vasoactive amines (Psora). Mast cells activity leads to the secretion of- IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-8, IL-10, IL-13, TNF, MIPs, IFN- $\gamma$ , GM-CSF, TGF-B, bFGF, VPF/VEGF, Pgd2, LTB4, LTC4, PAF, Histamine, serotonin, heparin, chondroitin, sulphate, chymase, tryptase and CPA.



### Symptoms induction and manifestation via mediators-

In turn, these factors induce-

- 1- Activation- Pruritus (Psora)
- 2- Vasodilatation- Erythema (Psora)

- 3- Extravasations- Wheal (Sycosis)
- 4- Recruitment- Infiltrate (Psora/ Sycosis)

### **Signs and symptoms of CSU**

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Pruritus is usually worse in nights causing sleep deprivation (Psora/ Syphilis) and consequently, chronic fatigue (Psora/ Syphilis). Psychological comorbidities are common with CSU. It affects the person as a whole in following ways-

- 1- Daily living- physical activities, chores, eating, concentrating, sleeping. (Psora)
- 2- Self-perception- Loneliness, conspicuousness, anxiety about future, feeling unhygienic. (Psora/ Syphilis)
- 3- Mental status- Tired, stressed, overwhelmed, and anxious. (Psora/ Sycosis/ Syphilis)
- 4- Treatment induced restrictions- Effect on everyday activities, financial burden, and discomfort. (Psora)
- 5- Social functions- Impact on relationships, impact on sexuality. (Psora/ Sycosis)
- 6- Leisure- Restricted choice of clothing, limited hobbies, avoiding sun exposure. (Psora)

### **Autoimmunity in CSU**

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- 1- Up to 40% of CSU cases may be autoimmune related. (Psora)
  - a. If the threshold for mast cell activation is lowered, patients have a higher susceptibility to histamine release. (Psora/ Sycosis)
  - b. A decrease in threshold of mast cell activation occurs in a certain group of patients with CSU, notably those with an autoimmune component. (Psora)
- 2- Possible autoimmune pathways in CSU
  - a. 60% of patients have an antibody directed against FcεRI (Psora)
  - b. 10% exhibit IgE anti IgE (Psora)
  - c. 30- 40% of patients have histamine releasing autoantibodies directed against high affinity IgE receptor or, less frequently, IgE itself (Psora)
  - d. In some patients with IgE, autoantibodies against thyroperoxidase have been identified. (Psora)

### **Diagnosis of CSU**

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- 1- Routine patient evaluation with thorough history and physical examination with special stress to the following-
  - a. Timing, frequency, duration of attacks
  - b. Shape, size, distribution and associated symptoms of lesions
  - c. Family and medical history including allergies
  - d. Observed correlation to any triggers e.g. foods, exercise, drugs etc.
  - e. Type of work, hobbies, smoking habits, stress
  - f. Previous therapy and response to treatment
- 2- Physical examination should include-
  - a. Blood tests to rule out any systemic disease
  - b. Tests to identify triggers

## **Identification and elimination of the underlying cause and/ or trigger**

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- 1- In patients with inducible urticaria, identifying and eliminating the cause interrupts the pathogenic process and leads to resolution of the urticaria.
- 2- Allergy profile tests can be done. These may include ASST (Autologous Serum Skin Test) or Allergy screening tests by EIA.

## **Duration of CSU**

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In most cases, the duration of CSU is estimated 1- 5 years, however in some cases; it may last up to 50 years.

## **Repertory of Urticaria**

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ABDOMEN - ERUPTIONS – urticaria **merc. nat-c. nat-sal. tub.**

Abdomen - ERUPTIONS, abdomen – urticaria **merc. nat-c. nat-sal. tub.**

ABDOMEN - PAIN - hypochondria - right - urticaria, with **astac. myric.**

ABDOMEN - PAIN - liver - urticaria, with **ars-h. ASTAC. myric. ptel.**

Abdomen - PAIN, hypochondria - right, side - urticaria, with **astac. myric.**

Abdomen – URTICARIA **merc. nat-c.**

Ankles - ERUPTIONS, ankle - urticaria, ankle **Nat-m.**

Ankles - URTICARIA, ankles **Nat-m.**

Arms - URTICARIA, arms acon. ant-c. **Apis** berb. calad. **Carb-v.** chinin-s. **Chlol.** cop. hep. hydrc. hyper. indg. kali-i. lach. lyc. merc. **Nat-c. Nat-m.** nat-s. **Phos.** rhus-v. **SULPH.** thuj. **Urt-u.**

BACK - ERUPTIONS – urticaria apis apisin. cann-s. choc. cupr-o. lac-ac. lach. lyc. sil. sulph.

Brain - SHAKEN, sensation, as if being - urticaria, in **bell.**

Breathing - DIFFICULT, breathing - alternating, with – urticaria **Calad.**

CHEST - COMPLAINTS of chest - Bronchial tubes - accompanied by – urticaria **pin-s.**

CHEST - ERUPTIONS – urticaria atra-r. **CALAD.** hydrc. ina-i. sars. sulph. tub. urt-u.

CHEST - OPPRESSION - alternating with – urticaria **CALAD.**

CHEST - PALPITATION of heart - accompanied by – urticaria **bov.**

Chest - URTICARIA, chest **Calad.** hydrc. sars. sulph. urt-u.

Clinical - allergies, allergic reactions - hives, and swelling, with Acon. **agar. all-c.** Ant-c. Apis **arn.** Ars.

Astac. **bell.** Bov. Calad. Carb-ac. **chlor.** Graph. Hist. Led. Lyc. Mez. Nat-m. Nat-p. **nit-ac.** Psor. Puls.

Rhus-t. Sal-ac. Sul-ac. Sulph. Urt-u. **vesp.**

Clinical - erysipelas, general - urticaria, with **Astac.**

Clinical - hives, urticaria Acon. **agar. all-c.** Ant-c. Apis **arn.** Ars. Astac. **bell.** Bov. Calad. Carb-ac. **chlor.**

Graph. Led. Lyc. Mez. Nat-m. Nat-p. **nit-ac.** Psor. Puls. Rhus-t. Sal-ac. Sul-ac. Sulph. Urt-u. **vesp.**

Clinical - laryngitis, inflammation - urticaria, with suppressed **Ars.**

Clinical - Malaria, infection, ague - apyrexia, - urticaria, better by rubbing **elat.**

Elbows - ERUPTIONS, elbows - urticaria, elbow **aran.**

Elbows - URTICARIA, elbow **aran.**

EXTERNAL THROAT - ERUPTIONS – urticaria **bamb-a. bry. kali-i. tax.**

EXTREMITIES - EROSIVE GNAWING - Toes - accompanied by – urticaria **sulph.**

EXTREMITIES - ERUPTIONS - Ankles – urticaria **Nat-m.**

EXTREMITIES - ERUPTIONS - Elbows – urticaria **aran.**

EXTREMITIES - ERUPTIONS - Feet - Sole of – urticaria **propr.**

EXTREMITIES - ERUPTIONS - Feet – urticaria **Calc. sulph.**

EXTREMITIES - ERUPTIONS - Fingers – urticaria **hep. thuj. urt-u.**

EXTREMITIES - ERUPTIONS - Forearms – urticaria am-c. calad. cassia-s. chin. clem. dream-p. lac-e. lyc.

**Nat-m.** sil.

EXTREMITIES - ERUPTIONS - Hands - Back of hands – urticaria acon. apis berb. cop. hyper. indg. **Sulph.** **thuj.**

EXTREMITIES - ERUPTIONS - Hands - Between the fingers – urticaria hyper. merc.

EXTREMITIES - ERUPTIONS - Hands - Palms – urticaria **rhus-v.** **stram.**

EXTREMITIES - ERUPTIONS - Hands – urticaria apis berb. bufo **Carb-v.** **Hep.** hyper. nat-c. **Nat-m.** nat-s. **Sars.** **SULPH.** **Urt-u.** **ven-m.**

EXTREMITIES - ERUPTIONS - Joints – urticaria **clem.** **verat.**

EXTREMITIES - ERUPTIONS - Knees - Hollow of knees – urticaria **Zinc.**

EXTREMITIES - ERUPTIONS - Knees – urticaria **zinc.**

EXTREMITIES - ERUPTIONS - Legs - Calves – urticaria **carb-v.**

EXTREMITIES - ERUPTIONS - Legs – urticaria **Calc.** **Chlor.** cypra-eg. dream-p. marb-w. rhus-t. **sulfonam.** **SULPH.**

EXTREMITIES - ERUPTIONS - Lower limbs – urticaria **Apis Aur.** **Calc.** **CHOL.** **clem.** kali-i. marb-w. merc. **plan.** **sulph.** **zinc.**

EXTREMITIES - ERUPTIONS - Nates – urticaria **hydr.** **lyc.**

EXTREMITIES - ERUPTIONS - Shoulders – urticaria **lach.**

EXTREMITIES - ERUPTIONS - Thighs – urticaria all-c. caust. clem. iod. lac-leo. merc. sulph. **Zinc.**

EXTREMITIES - ERUPTIONS - Upper arms – urticaria **sulfonam.**

EXTREMITIES - ERUPTIONS - Upper limbs – urticaria acon. ant-c. **Apis** berb. calad. cann-s. **Carb-v.** chinin-s. **Chlol.** cop. dulc. hep. hydrc. hyper. indg. kali-i. lach. lyc. merc. morg-g. **Nat-c.** **Nat-m.** nat-s. **Phos.** rhus-v. **SULPH.** **thuj.** **Urt-u.**

EXTREMITIES - ERUPTIONS – urticaria acon. all-c. am-c. ant-c. **APIS** aran. arum-d. **BELL.** berb. bufo calad. **CALC.** cann-s. caps. carb-v. cassia-s. caust. chin. chinin-s. **CHOL.** chlor. clem. **COP.** crot-c. cub. cypra-eg. dulc. harp. hep. hydr. hydrc. hyper. indg. iod. kali-br. kali-i. lac-e. **LACH.** lyc. lycps-v. mand. marb-w. med. merc. morg-g. nat-c. **NAT-M.** nat-s. phos. plan. **RHUS-T.** **RHUS-V.** sars. sil. spig. stann. stram. **SULPH.** tarax. thuj. **URT-U.** verat. zinc.

EXTREMITIES - ERUPTIONS - Wrists – urticaria **hep.** **stann.**

EXTREMITIES - PAIN - rheumatic - alternating with – urticaria **Urt-u.**

EXTREMITIES - PAIN - rheumatic - hives, with **urt-c.**

EXTREMITIES - PAIN - rheumatic - lower limbs - urticaria, with **urt-u.**

#### **FACE - ERUPTIONS – angioedema apis**

FACE - ERUPTIONS – urticaria anan. ant-c. **APIS** apisin. ars-i. **ARS.** **BELL.** **CALC.** **CHEL.** chin. chinin-s. **CHOL.** coca cop. crot-t. dulc. **GELS.** **HEP.** hydr. jug-c. **KALI-I.** lach. **LED.** lim. mag-m. medus. mez. **NAT-M.** nit-ac. plan. prim-o. **RHUS-T.** **SEP.** sil. **SULPH.** **URT-U.**

#### **FACE - SWELLING - Lips – angioedema apis**

Face - URTICARIA, face Am-c. **anan.** **APIS** **ARS.** Bell. Calc. Chel. Chinin-s. **CHOL.** **COP.** crot-t. dulc. Gels. Hep. **hydr.** Kali-i. **lach.** Led. **mez.** Nat-m. **nit-ac.** Rhus-t. Sep. sil. **SULPH.** **Urt-u.**

Feet - URTICARIA, feet **Calc.** **sulph.**

Fever - ERUPTIONS, with fevers – urticaria apis **Cop.** **SULPH.** **Urt-u.**

Fever - INTERMITTENT, fever, ague, malaria - apyrexia - urticaria, better by rubbing **elat.**

GENERALITIES - URTICARIA, after **APISIN.** **ARS.** **cop.** **URT-U.**

GENERALS - HISTORY; personal - urticaria; of recurrent **hep.** **strophi-h.**

GENERALS - PAIN - rheumatic - accompanied by – urticaria pin-s. **Urt-u.**

Hands - ERUPTIONS, hands - fingers, between the – urticaria **hyper.** **merc.**

Hands - URTICARIA, hands Apis **berb.** **bufo** **Carb-v.** Hep. **hyper.** nat-c. **Nat-m.** nat-s. Rhus-t. Sars. **SULPH.** **Urt-u.**

HEAD - ERUPTIONS – urticaria **AGAR.** **Apis APISIN.** **rhus-t.** **puls-n.** **urt-u.**

HEAD - PAIN - pressing - urticaria amel., appearance of **ap-g.**

HEAD - PAIN - urticaria amel., appearance of **ap-g.**

Head - URTICARIA, head **Agar.**

Joints - URTICARIA, joints clem. rhus-t. urt-u. verat.

Knees - ERUPTIONS, knee - hollow, of – urticaria Zinc.

Knees – URTICARIA zinc.

Larynx - LARYNGITIS, inflammation - urticaria, with suppressed Ars.

LARYNX & TRACHEA - INFLAMMATION - larynx - urticaria, with suppressed ARS.

LARYNX AND TRACHEA - CROUP - alternating with – urticaria ars.

LARYNX AND TRACHEA - INFLAMMATION - Larynx - urticaria; suppressed Ars.

LARYNX AND TRACHEA - SWELLING - Larynx - angioedema apis

Legs - URTICARIA, legs Apis Calc. CHLOL. clem. kali-i. merc. plan. sulph. zinc.

Limbs - URTICARIA, limbs acon. ant-c. Apis Bell. berb. Calc. chinin-s. CHLOL. Cop. dulc. hydrc. hyper. indg. kali-br. kali-i. Lach. lyc. merc. Nat-m. Rhus-t. Rhus-v. Sulph. tarax. Urt-u.

Liver - PAIN, liver - urticaria, with ars-h. Astac. myric. ptel.

Lungs - ASTHMA, general - alternating, with – urticaria calad.

Lungs - ASTHMA, general - hives, from apis puls.

MALE - ERUPTIONS – urticaria clem. cop. lyc. merc. nat-c.

Male - ERUPTIONS, genitalia – urticaria clem. cop. lyc. merc. nat-c.

Male - URTICARIA, genitalia clem. cop. merc. nat-c.

MALE GENITALIA/SEX - ERUPTIONS – urticaria clem. cop. merc. nat-c.

Mind - ABSENT-minded - urticaria, in Bov.

MIND - AVERSION - everything, to - urticaria, in bov.

MIND - AWKWARDNESS - urticaria, in BOV.

MIND - DELIRIUM - urticaria, in COP.

Mind - QUARRELSOME, disposition - urticaria, in Bov.

MIND - QUARRELSOMENESS, scolding - urticaria, in BOV.

MIND - SENSITIVE - urticaria, in Bov.

MIND - SENSITIVE, oversensitive - general - urticaria, in BOV.

MOUTH - SWELLING - Tongue – angioedema apis

Neck - URTICARIA, neck, front bry. kali-i.

NOSE - CATARRH - accompanied by – urticaria all-c. dulc.

Pelvis - URTICARIA, buttocks hydr. lyc.

Pulse - FAST, pulse, elevated, exalted - urticaria, in, 104 rhus-t.

RECTUM - CONSTIPATION - urticaria, with cop.

RESPIRATION - ASTHMATIC - alternating with - eruptions – urticaria calad. crot-t.

RESPIRATION - ASTHMATIC - hives, from apis puls.

RESPIRATION - DIFFICULT - alternating with – urticaria apis Calad.

Shoulders – URTICARIA lach.

SKIN - ERUPTIONS – angioedema agar. Anac. antip. apis bacls-7. bol-lu. calc-m. hell. hep. kali-i. pitu-p. prot. santin. vesp.

SKIN - ERUPTIONS - blotches - red – urticaria APIS

SKIN - ERUPTIONS - blotches - white - urticaria, like APIS

SKIN - ERUPTIONS - urticaria, hives - sequelae, from suppressed hives, with apis urt-u.

SKIN - ERUPTIONS - urticaria, hives ACON. aegle-f. agar. all-c. alum. alumin-p. alumin-sil. am-c. am-m. amyg. anac. ANT-C. ant-t. anthraco. ANTIP. ap-g. APIS APISIN. arn. ARS-I. ARS-S-F. ARS. arum-d. ASTAC. aur-ar. aur-s. aur. bar-c. bar-m. bar-s. bart. bell-p. BELL. benz-ac. berb-a. berb. bol-la. bol-lu. bomb-chr. bomb-pr. BOV. BRY. bufo CALAD. calc-lac. calc-p. CALC-S. calc-sil. CALC. camph. cann-s. canth. caps. carb-an. CARB-V. CARBN-S. cassia-s. cath-a. CAUST. cham. chel. chin. chinin-ar. CHININ-S. CHLOL. chlor. chloram. chlorpr. chol. cic. cimic. cina cob-n. coca cocc. CON. COP. CORN. cortico. crot-c. CROT-H. crot-t. cub. cund. cupr-act. cupr-o. CUPR. cypr. cypra-eg. dig. dol. dros. DULC. dys. ech. ELAT. EPHE. fago. ferr-i. form. FRAG. gaert. gal-ac. GALPH. gast. gels. GRAPH. guar. harp. helia. hell. HEP. hist. hom-g. hydr. ICHTH. IGN. iod. ip. jug-c. KALI-AR. KALI-BR. KALI-C. kali-chl. kali-i. kali-n. kali-p. kali-s. kali-sil. kola KREOS. lach. lam. LED. lepr. linu-u. lob. loxo-recl. LYC. lycps-v. mag-c. mag-m. mang. med. medus. merc. MEZ. moni. morg-g. morph. mur-ac. myric. nat-ar. NAT-C. nat-f. NAT-

M. NAT-P. nat-s. nat-sal. nat-sil. NIT-AC. NUX-V. olnd. op. ox-ac. pall. PETR. ph-ac. PHOS. physal-al. phyt. pic-ac. pin-s. pip-n. pitu-p. podo. polyg-h. pot-a. prim-o. PSOR. ptel. puls-n. PULS. ran-b. rheum RHUS-T. rhus-v. rob. rumx. ruta sabin. SAL-AC. sang. sanic. santin. sароth. SARS. sec. sel. SEP. sil. skook. sol-a. spig. spong. squil. stann. staph. stram. stroph-h. stry-xyz. SUL-AC. SUL-I. sulfa. sulo-ac. SULPH. tarax. tarent-c. tarent. tela ter. term-a. tet. THUJ. TIL. TRIOS. tub. URT-U. ust. uva valer. vario. VERAT. verb. verin. vesp. viol-t. woes. zinc-phic. zinc.

SKIN - ERYSIPelas - accompanied by – urticaria astac. frag.

SKIN - ERYSIPelas - urticaria, with ASTAC.

SKIN - SWELLING - general - urticaria, like nat-p.

Skin - URTICARIA, hives - sequelae, from suppressed hives, with apis urt-u.

SKIN AND EXTERIOR BODY - Eruptions - urticarious (nettle-rash) ACON. am-c. Am-m. Anac. ANT-C. ant-t. APIS ARS. bar-c. BELL. berb. Bov. BRY. bufo CALC. camph. carb-an. Carb-v. CAUST. Chin. cic. cocc. CON. cop. crot-t. DULC. Form. graph. HEP. Ign. Ip. kali-br. kali-c. kali-m. kreos. lach. led. LYC. mag-c. Merc. MEZ. Nat-c. NAT-M. nat-p. nat-s. nit-ac. Nux-v. op. PETR. ph-ac. phos. pic-ac. pip-n. psor. PULS. RHUS-T. rob. rumx. ruta sabin. sars. Sec. sel. SEP. Sil. staph. stram. SULPH. Ter. thuj. Urt-u. UST. valer. VERAT. zinc.

STOMACH - DISORDERED - urticaria; after cop.

STOMACH - INDIGESTION - accompanied by – urticaria Ant-c. ars. carb-v. cop. dulc. nux-v. Puls. rob. trios.

STOMACH - INDIGESTION - urticaria, from cop.

Stomach - INDIGESTION, general - urticaria, from cop.

STOMACH - NAUSEA - accompanied by - itching of skin - urticaria; before sang.

STOMACH - NAUSEA - itching - with, before urticaria sang.

Stomach - NAUSEA, general - itching, scratch, has to, until he vomits - urticaria, before sang.

Stomach - NAUSEA, general - urticaria, preceeding sang.

STOMACH - PAIN - pressing - urticaria, before ap-g.

STOMACH - PAIN - urticaria, before ap-g.

Stomach - PRESSING, pain - urticaria, before ap-g.

Stomach - URTICARIA, stomach problems, after cop.

Stomach - VOMITING, general - urticaria, during Apis cina

Throat - ERUPTIONS, throat - throat, external – urticaria bry. kali-i.

THROAT - INFLAMMATION, sore throat - urticaria, with apis dulc.

THROAT - SWELLING – angioedema APIS

Vaccinations - ALLERGIC, reactions - hives, and swelling, with Acon. agar. all-c. Ant-c. APIS arn. ARS. ASTAC. bell. Bov. Calad. CARB-AC. chlor. Graph. HIST. LED. Lyc. Mez. NAT-M. Nat-p. nit-ac. Psor. Puls. RHUS-T. Sal-ac. Sul-ac. SULPH. URT-U. vesp.

## Bibliography

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Encyclopedia Homoeopathica



Angioedema and Urticaria CURRENT Diagnosis & Treatment Emergency Medicine, 7e > Chapter 48.  
Dermatologic Emergencies > Immediate Recognition and Management of Life-Threatening Problems



Certain allergic dermatoses respond favorably to  $H_1$  antagonists. The benefit is most... Goodman & Gilman's The Pharmacological Basis of Therapeutics, 12e > Chapter 32. Histamine, Bradykinin, and Their Antagonists >  $H_1$  Receptor Antagonists > Therapeutic Uses > Allergic Diseases



Chapter 141. Flushing and Urticaria Principles and Practice of Hospital Medicine



Chapter 143. Urticaria and Angioedema *The Color Atlas of Family Medicine*



Chapter 317 Allergies, Anaphylaxis, and Systemic Mastocytosis *Harrison's Lecture Notes*



Chapter 38. Urticaria and Angioedema *Fitzpatrick's Dermatology in General Medicine, 8e*



Diagnosis *Harrison's Online* > Chapter 317. Allergies, Anaphylaxis, and Systemic Mastocytosis



Drug-Induced Acute Urticaria, Angioedema, Edema, and Anaphylaxis *Fitzpatrick's Color Atlas and Synopsis of Clinical Dermatology* > Section 22. Adverse Cutaneous Drug Reactions



Figure 170-12. Urticular drug reaction with annular lesions that are often mistaken for EM. Note... *The Color Atlas of Family Medicine* > Chapter 170. Erythema Multiforme, Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis > Differential Diagnosis



Figure 180-1. Urticaria on a forearm from local histamine release due to IV morphine. (Courtesy...*Tintinalli's Emergency Medicine* > Chapter 180. Opioids > Clinical Features



Figure 51-11. Urticaria. Discrete and confluent, edematous, erythematous papules and plaques... *Harrison's Online* > Chapter 51. Approach to the Patient with a Skin Disorder > Approach to the Patient with a Skin Disorder: Introduction > Diagnostic Techniques > Diascopy



Figure e16-14. A. Urticaria showing characteristic discrete and confluent,... *Harrison's Online* > Chapter e16. *Atlas of Skin Manifestations of Internal Disease* > Common Skin Diseases and Lesions



Figure e7-36. Urticaria showing characteristic discrete and confluent, edematous,... *Harrison's Online* > Chapter e7. *Atlas of Rashes Associated With Fever* > *Atlas of Rashes Associated with Fever*



Inflammation confined to the superficial connective tissue–vascular unit is characterized by... *Fitzpatrick's Dermatology in General Medicine, 8e* > Chapter 6. Basic Pathologic Reactions of the Skin > Reticular Dermis



Key Sign Urticaria *DeGowin's Diagnostic Examination* > Chapter 6. The Skin and Nails > Skin and Nail Signs > Generalized Skin Signs



Papular Urticaria *CURRENT Diagnosis & Treatment: Pediatrics, 21e* > Chapter 15. Skin > Common Skin Diseases in Infants, Children, & Adolescents > Insect Infestations



Pathophysiology and Manifestations *Harrison's Online* > Chapter 317. Allergies, Anaphylaxis, and Systemic Mastocytosis



Radar 10



Section 9. Alterations in the Skin *Harrison's Lecture Notes*



Urticaria & Angioedema *CURRENT Diagnosis & Treatment: Pediatrics, 21e* > Chapter 38. Allergic Disorders

-  Urticaria & Angioedema CURRENT Medical Dx & Tx > Chapter 6. Dermatologic Disorders > Common Dermatoses > Erythemas > Reactive Erythemas
-  Urticaria & Angioedema Quick Medical Diagnosis & Treatment > U
-  Urticaria (hives) & angioedema Diagnosaurus
-  Urticaria (Hives) Pathology: The Big Picture > Chapter 20. Dermatopathology > Acute Inflammatory Dermatoses
-  Urticaria and Angioedema Fitzpatrick's Color Atlas and Synopsis of Clinical Dermatology > Section 14. The Skin in Immune, Autoimmune, and Rheumatic Disorders
-  Urticaria and Angioedema Harrison's Online > Chapter 317. Allergies, Anaphylaxis, and Systemic Mastocytosis
-  Urticaria and Angioedema Tintinalli's Emergency Medicine > Chapter 27. Anaphylaxis, Acute Allergic Reactions, and Angioedema
-  Urticaria Harrison's Online > Chapter 53. Skin Manifestations of Internal Disease
-  Urticaria Principles and Practice of Hospital Medicine > Chapter 177. Transfusion of Blood Components, Derivatives and Their Adverse Effects > Complications of Transfusion
-  Urticaria Symptom to Diagnosis: An Evidence-Based Guide, 2e > Chapter 24. I Have a Patient with a Rash. How Do I Determine the Cause? > Other Important Cutaneous Disorders
-  Urticaria The Atlas of Emergency Medicine > Chapter 14. Pediatric Conditions > Rashes and Lesions
-  Urticaria Tintinalli's Emergency Medicine > Chapter 249. Skin Disorders Common on the Trunk > Morbilliform/Urticular Eruptions
-  Urticaria, Angioedema, and Anaphylaxis Principles and Practice of Hospital Medicine > Chapter 142. Adverse Cutaneous Drug Reactions > Does This Patient Have an Adverse Cutaneous Drug Reaction? > The Patient with Cutaneous Findings and Signs of End Organ Damage
-  Urticaria/Angioedema Harrison's Online > Chapter 55. Cutaneous Drug Reactions > Clinical Presentation of Cutaneous Drug Reactions > Immune Cutaneous Reactions: Benign
-  Urticular Eruptions Fitzpatrick's Dermatology in General Medicine, 8e > Chapter 41. Cutaneous Reactions to Drugs > Morphologic Approach to Drug Eruptions