# Od vrbove skorje do sodobnih analgetikov

Predavatelj:

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TEDEN NA

PRAGU BOLEČINE





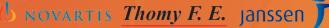


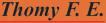


















#### **SKORJA VRBE**

- Salicis cortex
- vrba
- Salix sp.:
  - ■S. purpurea L. rdeča v.,
  - S. daphnoides Villars volčinasta v.,
  - ■S. fragilis L. krhka v.
- Salicaceae (vrbovke)
- Evropa, Centralna Azija
- antipiretik, analgetik, antirevmatik
- 1-3 % salicina



### Vrbova skorja





Sumerci Egipčani Kitajska tradicionalna medicina Hippocrates (460-377 p.n.š.)

Vrbova skorja - Aspirin CH<sub>2</sub>OH CH<sub>2</sub>OH salicin HO izoliran 1828 Salix sp. alternativni viri pocenitev, polsinteza učinkovitost 1839 1893 salicilna kislina polsinteza sinteza 1853 1872 Filipendula ulmaria Gaultheria = Spirea ulmaria procumbens acetil salicilna kislina

phenomena of the Passion, do so voluntarily and with intent | cotton-wool. to deceive. It is true that Virchow gave it as his opinion

hysterical subjects? (See Bourneville, " Louise Lateau.") As to the influence produced by the application of metals | hours. to the anæsthetic and ischæmic regions, it is unnecessary for me here to enter into details. The facts stated in the elaborate report to the Société de Biologie (Gaz. Méd., 28 Avril, 1877) of the commission appointed to inquire into the question, consisting of MM. Charcot, Luys, and Dumontpallier, have now received ample confirmation in this country. Whatever the interpretation of these facts, they cannot be dismissed as chimerical because those experimented on are the subjects of hysteria; for the surprising result was obtained by that commission of the application of the metals being effectual in restoring sensibility to cases of anzesthesia depending on organic lesion. In such cases the application was actually curative; but in hysterical ancesthesia, the effect, striking as it is, is only temporary, and a day. apparently has no influence on the cause of the disease. It was precisely thirty years ago that Dr. Burg published his first experiments in this direction. They appeared in Dr. | Case 3 - J. S - , aged thirteen, schoolgirl. First seen Elliotson's journal (the Zoist), and thus had the taint of | Feb. 11th, 1877. This is the first attack. Three days since far greater extent than was warranted by facts. Repro- cylic acid every four hours. duced now in another (which, if not a wiser, is at least a and minute scrutiny by men of high scientific reputation, there need be no fear that the precise and legitimate bounds of inquiry will be overstepped. Nottingham-place, W.

#### NOTES OF

#### CASES OF RHEUMATIC FEVER TREATED BY SALICYLIC ACID.

BY ALFRED KEBBELL, M.R.C.S. Eng., LATS HOUSE-SURGEON, YORK COUNTY HOSPITAL.

CASE 1 .- J. C --- , aged twenty-one. This was the third attack. On Jan. 9th, 1877, patient ran a mile to catch a was a tall, stout girl, but of a sallow, unhealthy appearance. On the day following I saw her. She complained of not then 105°. There was pain, swelling, and redness in both every three hours. Urine dark coloured. wrists and ankles; face flushed; some dulness at base of twenty grains of salicylic acid was given every three hours. taken every six hours.

Jan. 11th .- After taking about eight doses of the acid, joints affected, but there is delirium, with much depression : taken three times a day. urine dark-coloured; pain about region of the heart; pericardial friction sound to be heard. Salicylic acid discontinued, and the usual remedies resorted to.

of six days from pericarditis, accompanied by cerebral

Case 2 .- A. B .--, aged thirty, cook. Has had rheu- ture every three hours.

rhage—has been noted in cases of hysteria, and, although | matic fever once before. I saw her on Jar. 14th, 1877. favoured, and even induced, by emotional states (just as | About a week before she began to have pain in several joints, pallor by the emotion of fear, or blushing by that of shame), accompanied by swelling. She now has effusion into both they could never be said to be produced wilfully. I may be knee-joints, the right being the worst; also in both ankles wrong, but I confess that to me there seems a wide differ- and wrists. Has passed a very restless night; sweating ence between an act of wilful deceit and the influence of freely; tongue furred. The records of the temperature imagination or emotion. I, for one, do not believe that | were unfortunately not kept for the first few days of the those modern martyrs-as Louise Lateau, for instance- | illness. I prescribed fifteen grains of salicylic acid to be who reproduce in their own persons every seven days the taken every three hours. The joints to be wrapped in

Jan. 15th .- Very much better ; passed a good night; says that Lateau was either an impostor or a miracle worker; but she began to feel better after she had taken about three or is there not a third view to take of her-viz., that she is four doses of the medicine; effusion into knees nearly gone; simply a hysterical girl whose fancies and imaginations, can move round in bed - an impossibility yesterday. wrought on by strong religious feeling, intensify at certain Although I do not remember the exact degree of temperaintervals, conditions common alike to her and to other ture. I know that it was lowered about three degrees.

16th .- Still improving; mixture to be taken every six

18th .- Has continued the mixture till to-day; seems almost well as far as the rheumatism is concerned; to take fifteen minims of tincture of perchloride of iron three times a day.

20th.-Going on well.

24th.—Return of the rheumatism: temperature 99.4°. To return to the acid mixture.

25th. - Temperature 98.4°; all the pain gone again; good night; sweated freely; complains of a peculiar feeling about the head and throat; vomited once this morning.

29th.-Slight return of pain in right shoulder and hip. Ten grains of the acid every three hours; eight doses given. Feb. 2nd .- Continues better; to take the mixture twice

5th.—Free from pain; mixture to be taken occasionally. 9th.—Quite well.

mesmerism upon them. The same rock upon which the she commenced to have pain in several joints. Temperareputation of that great physician was wrecked proved ture 102.6°. Right shoulder and wrist and both knees and fatal also to Dr. Burq's discoveries. Nor can it be denied | ankles affected; great pain, which prevents her sleeping; that they were justly decried; for as with mesmerism, so | she was screaming all night with the pain; cannot move here the new-found agent was vaunted to cure diseases to a herself in bed; no sweating. To take eight grains of sali-

Feb. 12th.—Passed a goodnight. Temperature 101°. Much more sceptical) generation, and submitted to exhaustive easier. Can now turn herself in bed. Has turned herself right round in bed to speak to me. Left knee most painful, red and swollen. Continue mixture.

13th.—Temperature 98.4°. Very good night; almost free from pain.

15th .- Temperature 98.4°. Quite well. To get up today. Mixture to be taken if there is any return of the pain. 19th .- I called to see her, and found her downstairs nursing the baby.

Case 4 .- W. C --- , aged fifty-five, farmer. First seen June 28th, 1877. This is the fourth attack. Commenced a few days since with pain in the ankles. Temperature 101°; pulse 100. Both knees, ankles, and wrists now affected. To take ten grains of salicylic acid every two hours. Cotton-wool to joints. Ten grains of compound ipecacuanha powder at bedtime.

June 29th.—Temperature 101°. Restless night. Knees feel train, and perspired freely. The day was very cold. She better. The patient is a very heavy man, weighing about seventeen stone. He is quite unable to move himself; lies with his feet over the end of the bed.

30th.—Temperature 99°; pulse 90. Passed a capital feeling well, of headache, pain in several joints, and of night. The patient and friends are much pleased at the shortness of breathing. She kept about all day, but in the sudden improvement. This morning he has been out of evening was compelled to go to bed. The temperature was bed, and walked round the room. Mixture to be taken

July 1st .- Not quite so good a night, but he had some friends to see him last evening, who stayed too long. Free lungs posteriorly. Ordered milk and beef-tea diet, and from pain, except in left hand and wrist. Mixture to be

3rd.-Going on well. Temperature 98°. Is very anxious the temperature is down to 101°; pain much less in the to get up to-day. To sit up for a short time. Mixture to be

4th.-Not quite so good a night. Slight return of pain in right shoulder.

5th .- Temperature 101°; pulse 90. Return of pain in both The patient continued to get worse, and died at the end | wrists, left knee, and shoulders. Mixture to be taken every two hours.

6th .- Temperature 98°. Much better; good night. Mix-

### Drugi analgetik po istem principu



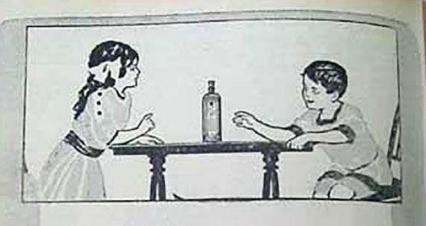


acetilsalicilna kislina





heroin



#### En la irritación

#### producida por la tos, bronquitis

y stres catarno de los fagares respiratorios, arbitase al JARABE RAVER de HEROINA, excelente e inclensivo havia para las inlaturas, administrado regún la prescripción.

El JARABE RAYER de HEROINA apage la tos sécia los de bars, permita un suello reparador, sun cumdo hobiera sido perturbado por los accesos de tos, incomolo acresioso, dimea, etc.

Con il se excegniri abrestición de la enfermadol.



Pilips in teller in terrentia y despectia JANAPE DAYES da HISOUNA, as at rectable estamal, can la CECE SLAYES. Proces. Posense E.S. Vude en telulo ya acces-

policies the fear metric clients; their we non-



### mehanizem delovanja salicilatov

1972 John Robert Vane odkrije mehanizem

- Nobelova nagrada za medicino 1982
- inhibicija ciklooksigenaze (COX; prostaglandin-endoperoksid sintaza, PTGS)

## Drugi učinki

### Acetilsalicilna kislina:

- antitrombotik

### Salicilna kislina:

- keratolitik
- rastlinski hormon
- SPF

## Hvala za pozornost. Vprašanja?

