

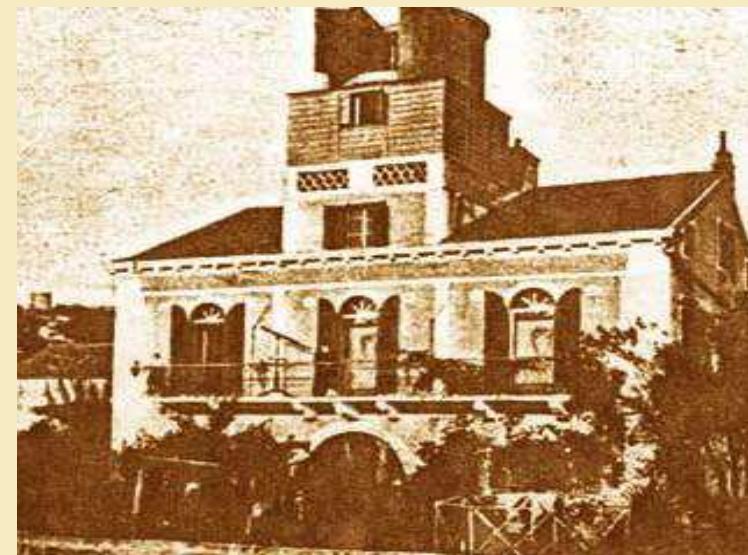
# Vertigo 1914

## Nobelpreisträger Robert Bárány

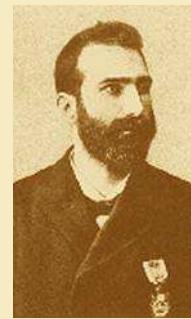
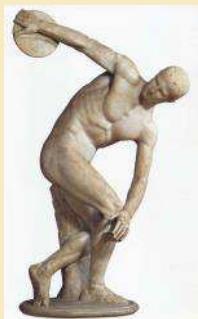


Dr. Robert Bárány

*Robert Bárány*



Observatorium "Manora", Mali Losinj, 1894-1909



**Medizin im 1. Weltkrieg**  
17. Juni 2014  
Gesellschaft der Ärzte Wien  
Billrothhaus

AUS DER K. K. UNIVERSITÄTS-OHRENKLINIK IN WIEN.  
(VORSTAND: HOFRAT PROF. DR. A. POLITZER.)

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PHYSIOLOGIE UND PATHOLOGIE  
(FUNKTIONS-PRÜFUNG)  
DES  
BOGENGANG - APPARATES  
BEIM MENSCHEN.  
KLINISCHE STUDIEN.  
VON  
DR. ROBERT BÁRÁNY,  
KLIN. ASSISTENT.

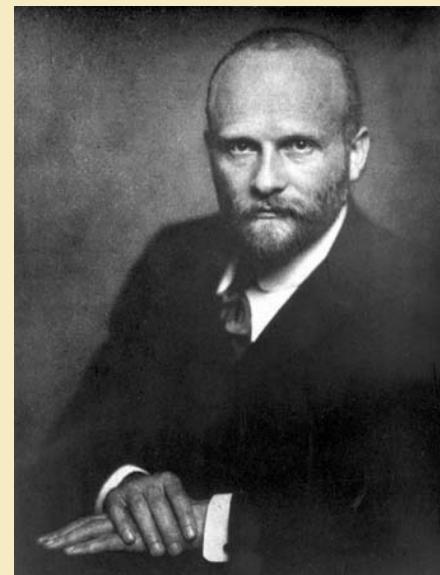
MIT 15 FIGUREN IM TEXT.

LEIPZIG UND WIEN.  
FRANZ DEUTICKE.  
1907.

# Erste klinisch-pathologische Lokalisationsmodelle für das Innenohr

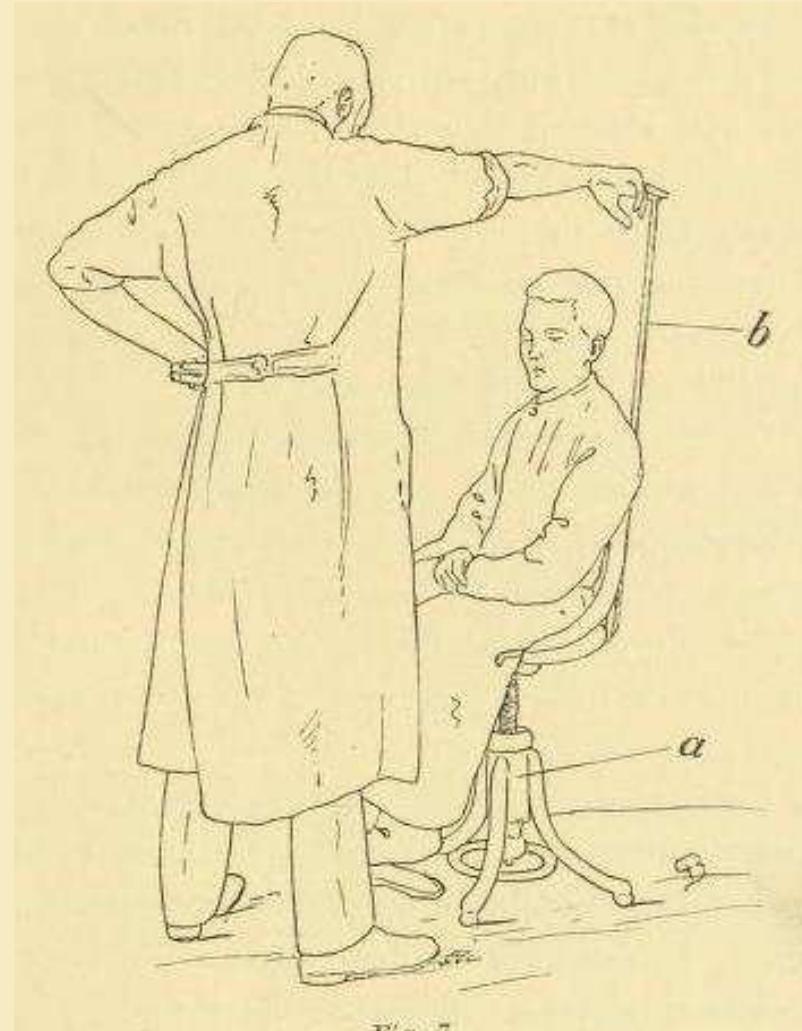
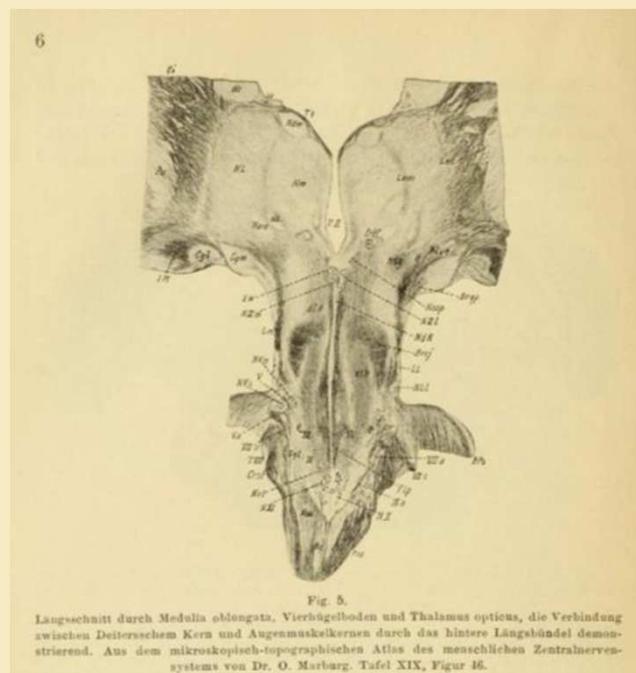
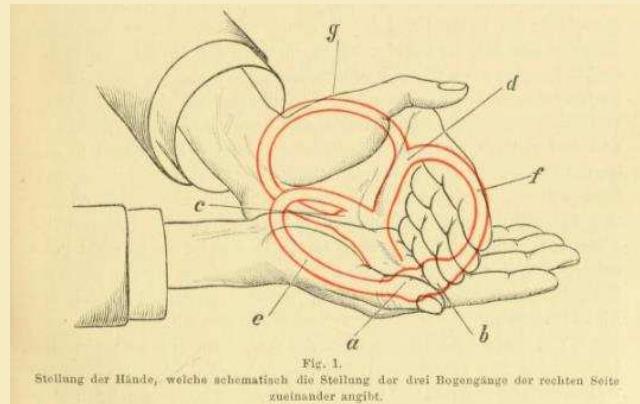


**Prosper Menière**  
1799-1862

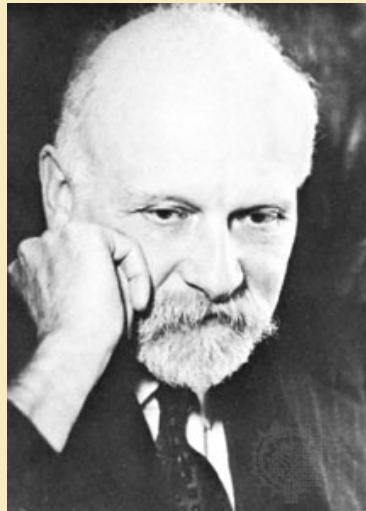


**Robert Bárány**  
1876-1936

# Physik, Neurologie, Physiologie



*a* Drehstuhl (Schraube ohne Ende). *b* Handhabe.



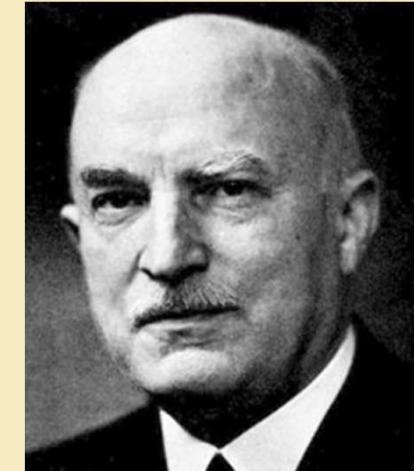
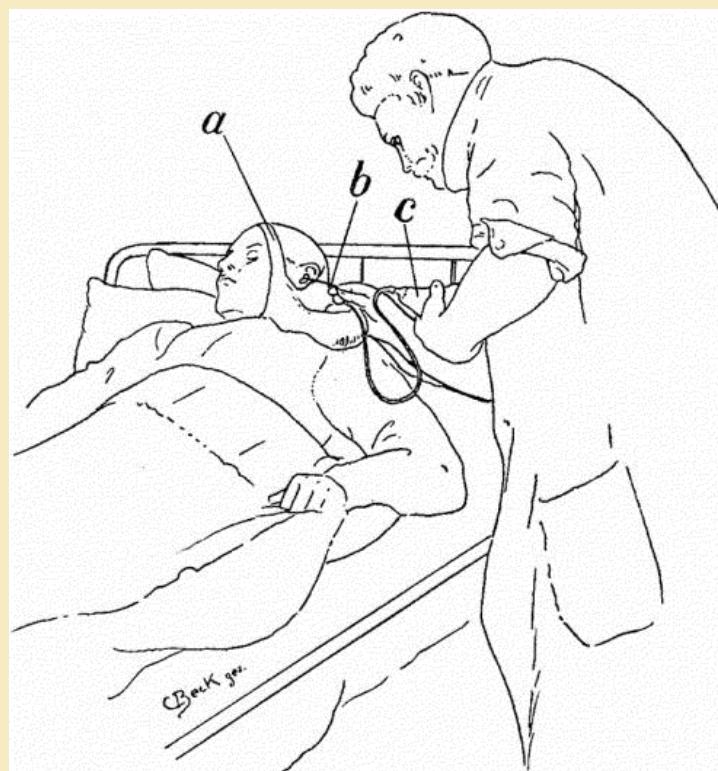
**Robert Bárány**  
1876-1936;  
c.1930



UPPSALA  
UNIVERSITET



universität  
wien



**Gunnar Holmgren**  
1875-1954



# Taubstummeninstitut, AKH, Waisenhaus, Armenhaus, Josephinum, Kunstakademie, Toleranzpatent, Lemberg



Nach dem 7-jährigen Krieg, dem ersten weltumspannenden Konflikt,  
wurde **Joseph II.** 1764 zum röm.-deutschen Kaiser gewählt



**Kaiser Franz Joseph und Thronfolger Franz Ferdinand**

hat's

# The New York Times.

NEW YORK, MONDAY, JUNE 29, 1914.—EIGHTEEN PAGES.

## THE WEATHER

Local showers today; Tuesday, fair; fresh, shifting winds, becoming northwest.

For full weather report see Page 17.

ONE CENT In Greater New York, Jersey City and Newark. Elsewhere, TWO CENTS.

### AYS IN AIR 21 HOURS.

An Aviator's Flight Held to be a World's Record.  
LIN, June 28.—Herr Landmann, actor, today concluded a non-stop of 21 hours 43 minutes. It was asserted that this flight constituted a world record.

### NEY IN CANAL PARADE.

Be Invited to Make Trip Aboard His Old Flagship Olympia.

Special to The New York Times.  
WASHINGTON, June 28.—Admiral Dewey may take his old flagship, Olympia, through the Panama Canal March in the naval parade. Rear Adm. Clark, retired, has been ordered to command of his old ship, the one, for the occasion, and Secretary of the Navy said this afternoon that he had invited Admiral Dewey to take part in the parade.

If the Admiral does not feel like making the journey via the canal, he will go overland to San Francisco and board the Olympia upon the arrival of a pageant fleet there.

President and Secretary Daniels make addresses upon the arrival of fleet at the exposition city. It is thought that Admiral Dewey and Admiral Clark also will speak. The entire brigade of midshipmen will be taken to San Francisco for the occasion. This probably will take the place of their annual cruise.

Oregon and the Olympia will be moored at a specially constructed wharf, will be on exhibition throughout the exposition. Behind them will be moored seven typical modern naval ships—a dreadnaught of the New York Oklahoma type, a battleship of the Connecticut or Minnesota type, an armored cruiser of the Tennessee or Montana type, one of the three escort cruisers, a destroyer, a submarine, and a collier of the latest build. In addition, the entire Atlantic Fleet will remain throughout nearly the whole of the exposition.

either Admiral Dewey nor Rear Adm. Clark has been aboard his ship since relinquishing their commands shortly after the close of the Spanish-American war.

### VIEW GAME FOR BROADWAY.

Auto Owners Hope Trundling Men Tires Won't Become Popular.  
Larry E. Sullivan with his brother two women rode up to Stanley's restaurant, in West Forty-third Street, this evening in a limousine auto with a white tire strapped like a life preserver to the back. Two men who had an appearance of chauffeurs came in the street after the owners of the

### FEDERALS DESERT AGUASCALIENTES

Next Big Town South of Zacatecas Is Evacuated by Huerta's Forces.

### CARRANZA-HUERTA DEAL?

American, Reaching Vera Cruz, Reports Parleys Are On in Mexican Capital.

### ENVOYS TOLD OF REBEL NOTE

Says He Must Consult His Associates—Answer Is Regarded as Favorable.

ZACATECAS, June 27, via EL PASO, June 28.—Aguascalientes, capital of the States of the same name, has been evacuated by the Federals, according to information reaching Gen. Villa's headquarters today.

Owing to this, his plan of campaign has been changed, and the troops of the division are returning to Torreon.

Part of the division left last night. The rest will leave for the north today. Gen. Villa will follow his troops during the day. Last Wednesday it was announced that the Villa troops would be taken toward Aguascalientes overland.

Late reports show that the losses of the Federals here were much greater than at first supposed. The number of prisoners taken by Villa's troops exceed 4,000. The number of killed was close to that figure.

The latest casualty report of the Constitutionalists was over 700 dead and 1,100 wounded, but these figures are not complete.

Special to The New York Times.

EL PASO, June 28.—A message was received today stating that 2,000 Federals, fleeing from Zacatecas toward San Luis Potosi, had been overtaken by Gen. Benavides, head of the Zaragoza brigade, and had been decisively defeated at Hallinas, a point about midway between Zacatecas and San Luis Potosi. Four hundred Federals were killed or wounded, according to the

Propose Pan-American Memorial to Columbus  
A splendid tomb topped by a great light is proposed to be erected in Santo Domingo, in the Caribbean Sea, by subscriptions from peoples of all lands. See NEXT SUNDAY'S TIMES.

### OUR GUNS FIRE ON SANTO DOMINGO

Few Shots from the Machias Stop Bombardment of Puerto Plata by President Bordas.

### WARNED BY CAPT. RUSSELL

Told Not to Endanger Foreigners in Attack on Rebels There—Refugees Taken Off by Our Boats.

### SLAIN IN SECOND ATTEMPT

Archduke Saves His Life First Time by Knocking Aside a Bomb Hurled at Auto.

### LAID TO A SERVIAN PLOT

Heir Warned Not to Go to Bosnia, Where Populace Met Him with Servian Flags.

### AGED EMPEROR IS STRICKEN

Shock of Tragedy Prostrates Francis Joseph—Young Assassin Proud of His Crime.

PUEBLO PLATA, June 26, 1914. This morning the military above fired shells into the city of Puerto Plata, the Machias anchorage, in the inner harbor and, with a

## HEIR TO AUSTRIA'S THRONE IS SLAIN WITH HIS WIFE BY A BOSNIAN YOUTH TO AVENGE SEIZURE OF HIS COUNTRY

Francis Ferdinand Shot During State Visit to Sarajevo.

### TWO ATTACKS IN A DAY

Archduke Saves His Life First Time by Knocking Aside a Bomb Hurled at Auto.

### SLAIN IN SECOND ATTEMPT

Lad Dashes at Car as the Royal Couple Return from Town Hall and Kills Both of Them.

### LAID TO A SERVIAN PLOT

Heir Warned Not to Go to Bosnia, Where Populace Met Him with Servian Flags.

### AGED EMPEROR IS STRICKEN

Shock of Tragedy Prostrates Francis Joseph—Young Assassin Proud of His Crime.

PUEBLO PLATA, June 26, 1914. This morning the military above fired shells into the city of Puerto Plata, the Machias anchorage, in the inner harbor and, with a



Archduke Francis Ferdinand and his Consort the Duchess of Hohenberg Slain by Assassin's Bullets.

could only certify they were both dead.

The authors of both attacks upon the Archduke are born Bosniacs. Gavrilo Princip is a composer, and worked for a few weeks in the Government printing works at Belgrade. He returned to Sarajevo a Servian chauvinist, and made no concealment of his sympathies with the King of Servia.

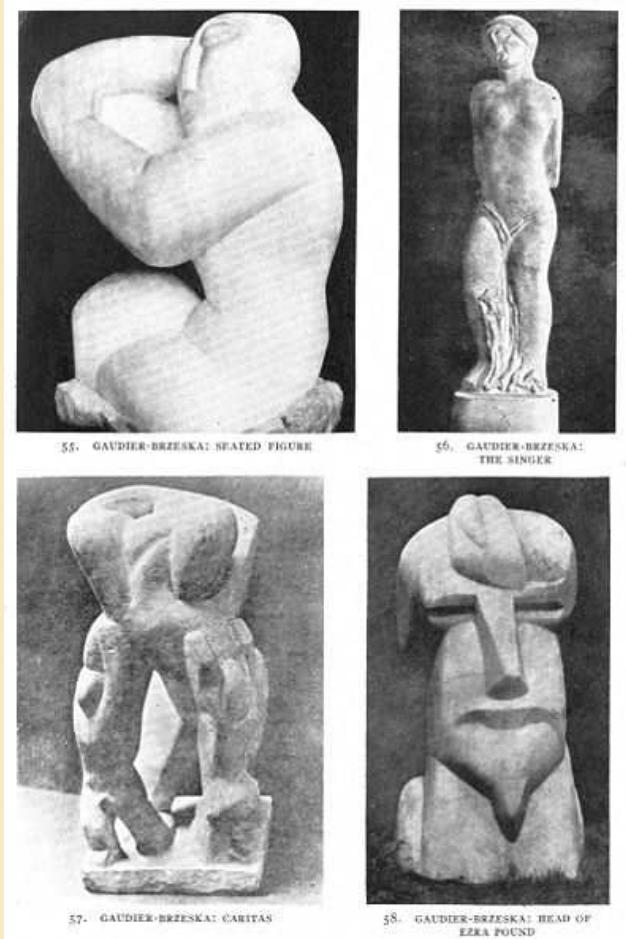
Both he and the actual murderer of the Archduke and the Duchess expressed themselves to the police in the most cynical fashion about their crimes.

It is feared that it will lead to serious complications with that unruly kingdom, and may have far-reaching results. The future of the empire is a subject of general discussion. It is felt that the Servians have been treated too leniently, and some hard words are being said about the present foreign policy.

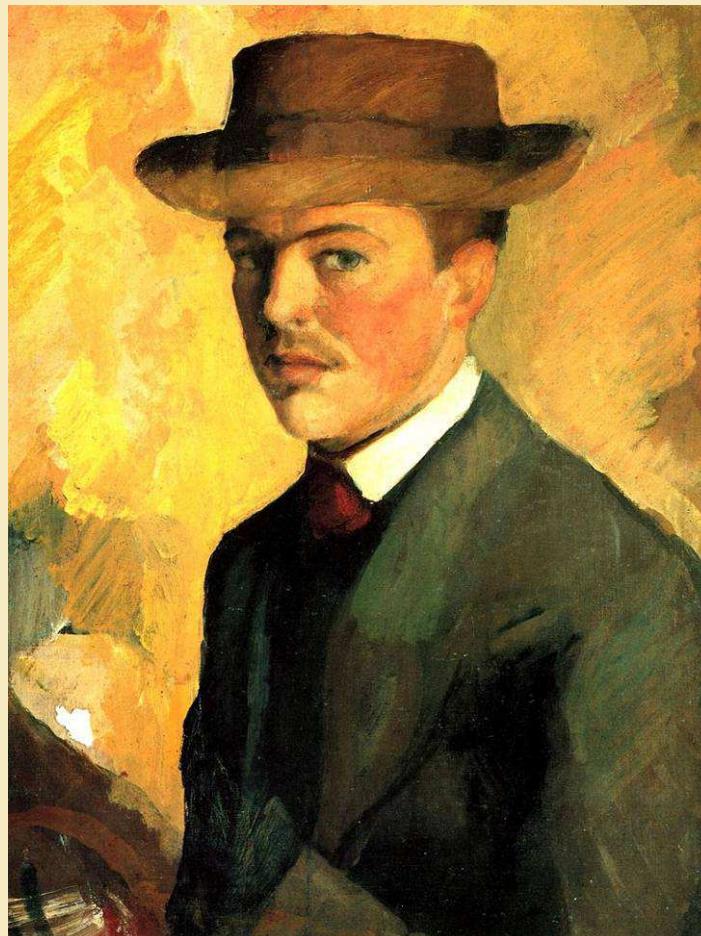
All the public buildings are draped in long black streamers and the flags are all at half-mast.

BRAVERY OF ARCHDUKE.  
Gave First Aid to Those Wounded by the Bomb.

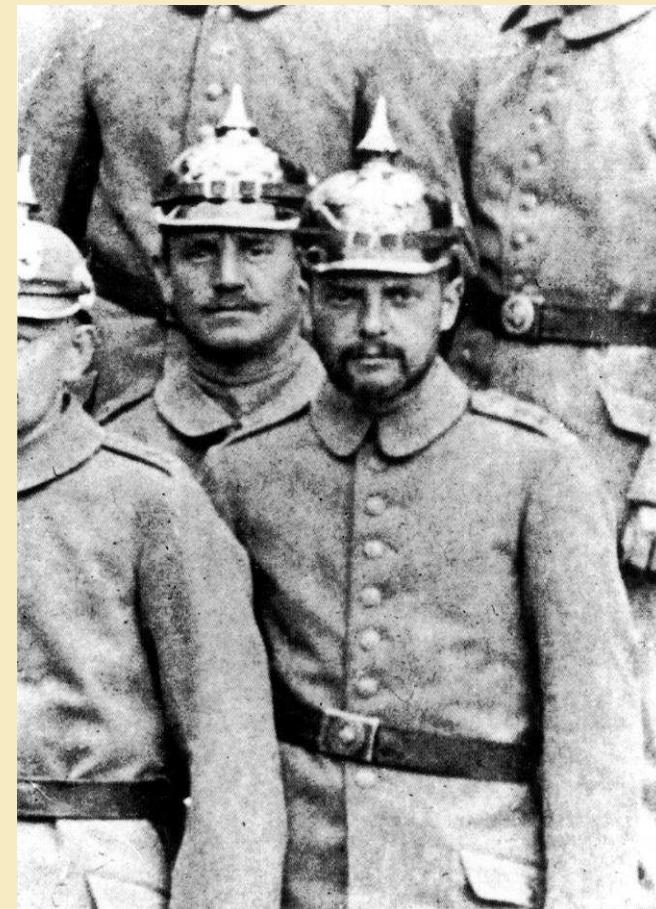
MARIA LAVRUS, Bosnia, June 28.—Arch-



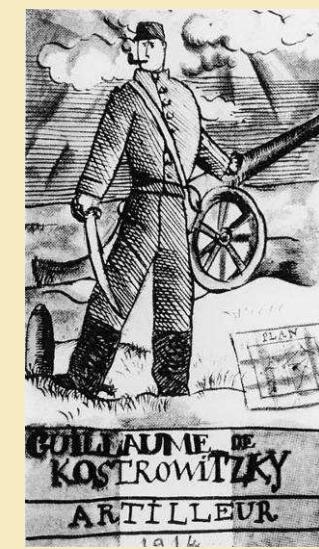
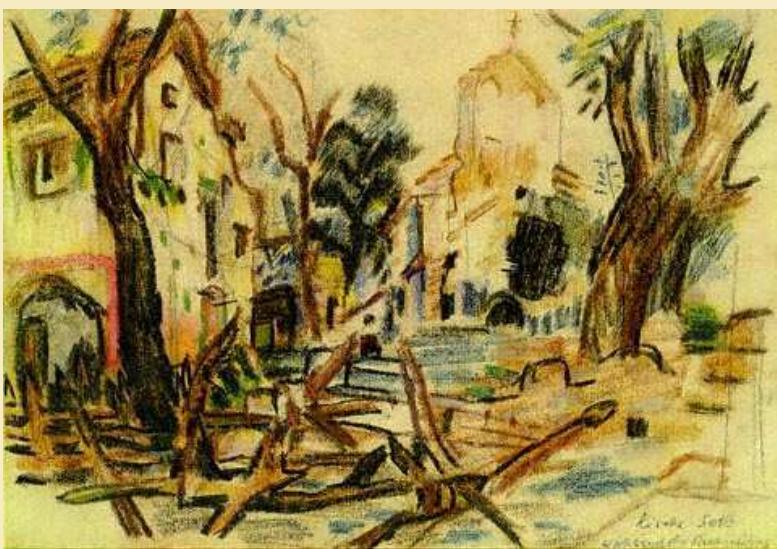
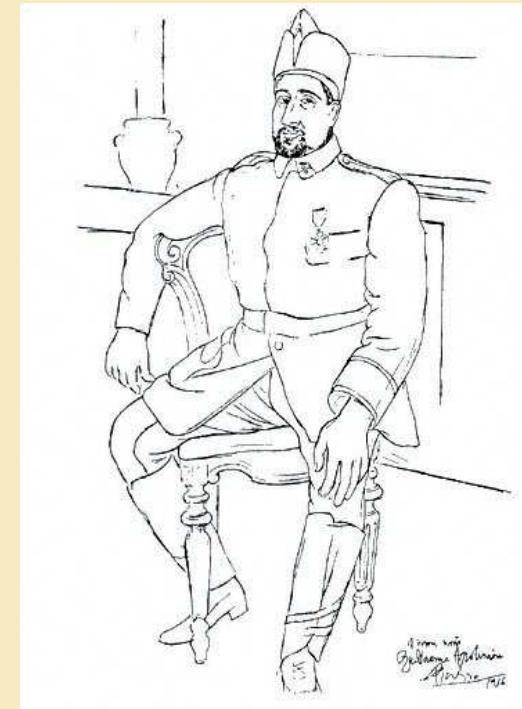
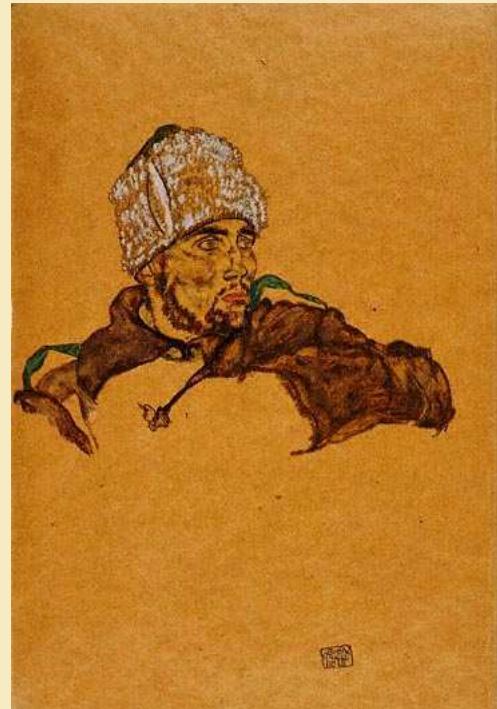
**Henri Gaudier-Brzeska**  
1894-1915



**August Macke**  
1887-1914



**Paul Klee**  
1879-1940



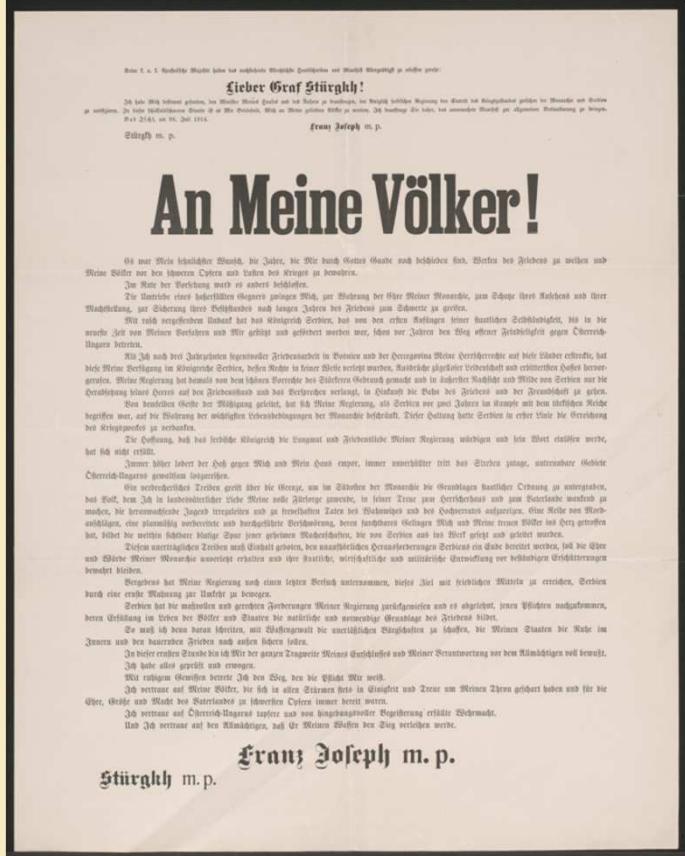


# Zwischen Artillerie und Maschinengewehr

*Karst, Galizien, Flandern, Alpen*



*Alpen*



**Cena 10 h.**  
Nr. 143

Przemyśl dnia 11. marca 1915  
**Cena 10 h.**  
Nr. 143

**Dozwolone przez c. i k. Komendę twierdzy.**

# Wiadomości wojenne

wychodzą w dowolnym porządku.

## RADIOGRAMY

Jego Ekscelencja Komendant twierdzy wydał następujący rozkaz:



**Utworzenie muzeum twierdzy przemyskiej podczas wojny 1914/15.**

The General's order regarding the creation of a museum in the fortress during World War I.

uwagę, przytacza się poniżej. Przy darach osób wojskowych należy nadto podać nazwisko darującego, a będzie ono także w muzeum przy każdym przedmiocie widocznie umieszczone. Do tych darów przykładam tem większą wartość, dla tego, że w muzeum twierdzy przemyskiej będzie przekazywać potomności także wiele nazwisk naszej dzielnej załogi. Termin i miejsce dostawy zebranych przedmiotów poda się wkrótce do publicznej wiadomości.

Jestem przekonany, że na wstępnie wspomnianą myśl przyjmą wszyscy gorliwie i ze zrozumieniem i w ten sposób będzie rzeczą możliwą przekazać potomności ciekawą i przejrzysty obraz wielkiego czasu, który przeżywamy.

Każdy przedmiot, chociażby był nawet bardzo mały, znajdzie miejsce w tym zbiorze, jeśli tylko w jakikolwiek związku z oblężeniem twierdzy i z działalnością w niej w czasie oblężenia, ponieważ taką pozornie nieznaną rzecz może uzupełnić mozaikę, która ma dać dokładny obraz tej znaczej akcji, w jakiej my tu czynny brali udział.

Zwyły tedy te nieplomna nadzieję, że wszystkie osoby załogi bez różnic rangi, jak zawsze, tak i w tem przedsięwzięciu wspierać mnie będą z całych swych sił.





*Alltag in der Festung Przemyśl*

# Galizien 1914-1915





**Festung  
Przemyśl**  
ca 130.000 P  
Kapitulation  
22. März  
1915





# Belagerung Przemyśl

24. September 1914 bis  
22. März 1915

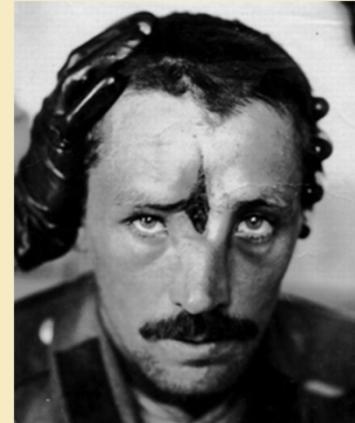
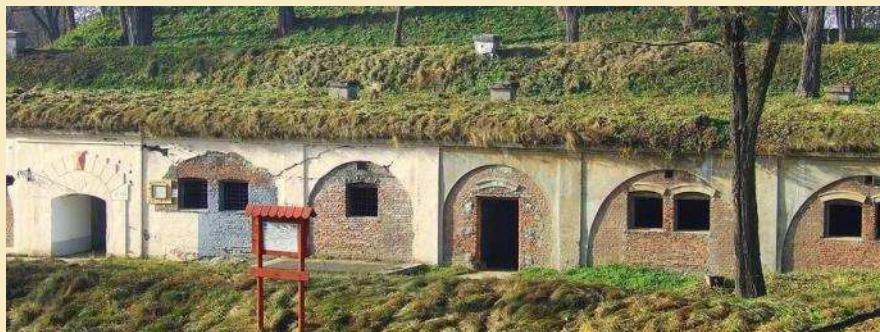


# Robert Bárány 1876 – 1936

*Nobelpreis für Physiologie oder Medizin 1914*



*Robert Bárány (2. R. Zentr.), Przemyśl 1914*



*Ein von  
Bárány  
operierter  
Verwundeter*



396. Przemyśl. Fort Xa, 6. 6. 15.

## **Primäre Wundnaht bei Schußverletzungen, speziell des Gehirnes.\*)**

Von Priv.-Doz. Dr. Bárány.

Meine Herren! In meinem Vortrage vom 6. November 1914 habe ich Ihnen über die Resultate der offenen Wundbehandlung bei Hirnschüssen berichtet; diese Resultate waren im ganzen wenig befriedigend. Von 39 Fällen sind nur neun geheilt und 30 gestorben; allerdings kamen bereits fünf in sterbendem Zustande ins Spital, aber auch der Prozentsatz 9 zu 25 muß als ein sehr hoher erscheinen. Unter den neun geheilten Fällen befinden sich acht Hirnabszesse, die dank der von mir eingeführten Behandlung mit Guttaperchastreifen zur Ausheilung kamen, nachdem sie sich zum Teil vor Beginn der Behandlung mit Guttapercha in einem sehr ungünstigen Zustande befunden hatten.\*\*)

Preliminary Notes  
ON  
THE TREATMENT OF THE CRANIAL  
INJURIES OF WARFARE.

BY  
PERCY SARGENT, F.R.C.S.,  
SURGEON,

AND

GORDON HOLMES, M.D., F.R.C.P.,  
ASSISTANT PHYSICIAN,

NATIONAL HOSPITAL FOR THE PARALYSED AND EPILEPTIC, QUEEN  
SQUARE, LONDON.

[FROM THE BASE HOSPITAL, BOULOGNE-SUR-MER.]

DURING the past five months we have had the opportunity of seeing and dealing with a large number of cases of head injury at the base hospitals in France, and we now feel that our experience is sufficient to justify a preliminary communication.

wound of entry or exit, or through both; or where the missile has not entered the cranial cavity but has produced a comminuted fracture and laceration of the dura mater, by a glancing blow. It is usually found that the damage both to the skull and brain is more extensive than inspection, palpation, or even an x-ray examination would indicate. This is particularly so when the wounds of entry and exit are not far apart; then there is almost invariably extensive comminution of the bone between them, and often fissures radiating far in several directions. This extensive comminution is particularly frequent when the frontal bone is involved. The problem of dealing satisfactorily with such wounds is the problem that most frequently confronts us. It is complicated by the almost invariable presence of infection in the scalp wound. In such cases the choice lies between a conservative line of treatment, which consists of cleaning up of the scalp wound, removal of fragments of bone and antiseptic dressings, and more radical measures aimed at the prevention of such complications as commonly follow the conservative line of treatment.

*Frequent Need for Radical Measures.*

There can be no doubt that many patients recover, or

Sargent und Holmes  
Versorgung von  
Schädel-Hirn-  
Verletzungen  
im Krieg  
1915

Rekonvaleszenz



## Ein kriegsgefangener österreichischer Gelehrter als Träger des Nobel-Preises für Medizin.

Verleihung des 1914er medizinischen Nobel-Preises an den Wiener Ohrenarzt Dr. Robert Barany.

Wien, 30. Oktober.

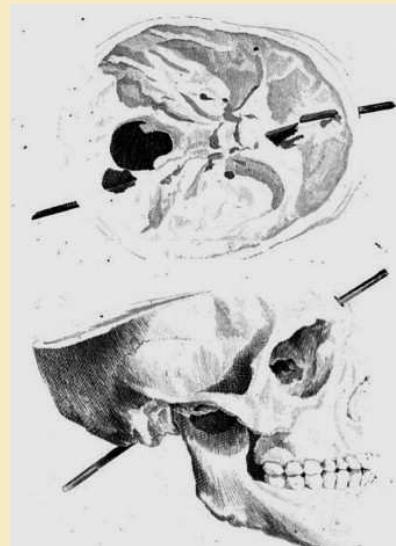
Die heurige Verteilung der Nobel-Preise hat ein hochinteressantes Ergebnis gezeitigt, das für die österreichische Wissenschaft im hohen Grade ehrend ist. Der Nobel-Preis für Medizin ist einem Wiener Arzte zugefallen, einem Gelehrten, der seinen Pflichten gegen das Vaterland auf den Schlachtfeldern gerecht geworden ist und bei der Belagerung und Einnahme von Przemysl in russische Kriegsgefangenschaft geriet. Der hervorragende Otoologe der Wiener Universität Dr. Robert Barany, einer der jüngeren Forscher der Wiener medizinischen Fakultät, der sich unter seinen Fachgenossen des größten Ansehens erfreut und dessen physiologische und pathologische Arbeiten bereits früher außerhalb der Grenzen unseres Vaterlandes die größte Beachtung gefunden haben, wurde mit dem Nobel-Preise für Medizin ausgezeichnet.



Merv, Turkmenistan  
Karawanserei ca. 1890

# Von Larrey zum 1. WK

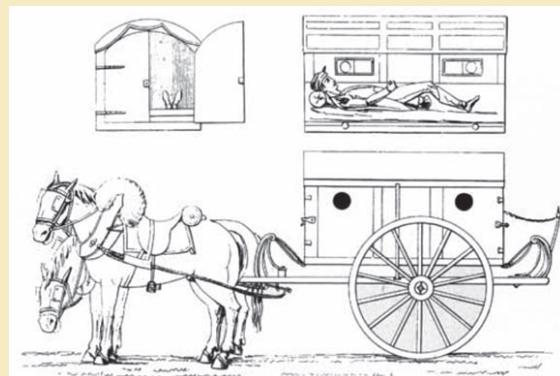
## Dominique Larrey 1766-1842



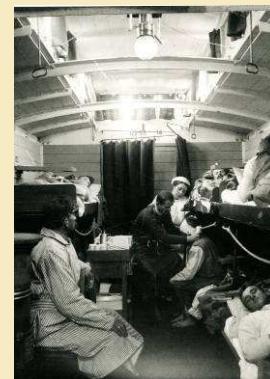
*Kopfverband durch Larrey*



*Russland 1812*



*Ambulance volante, Larrey*

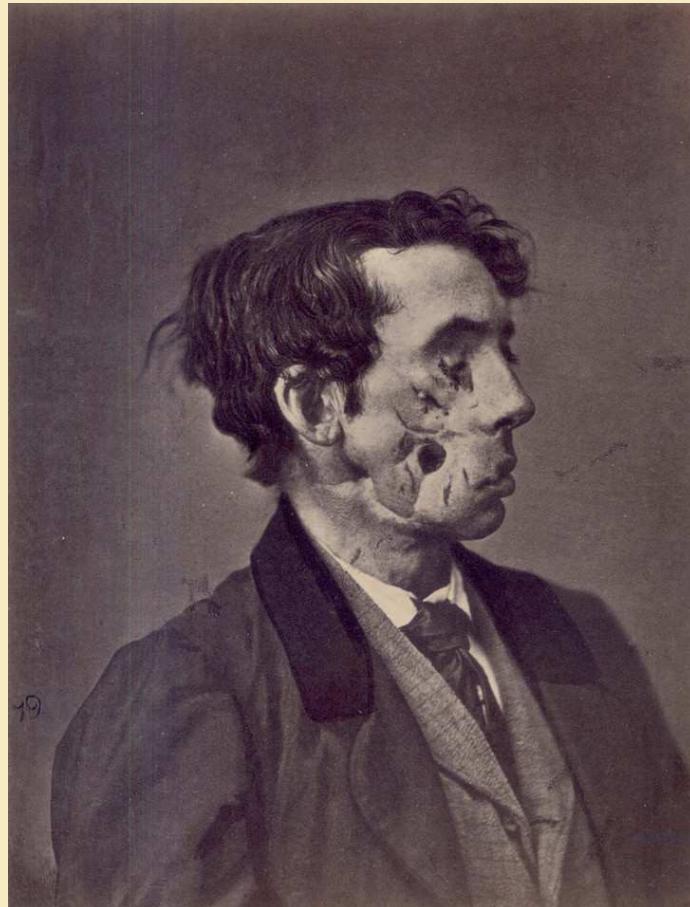


1914

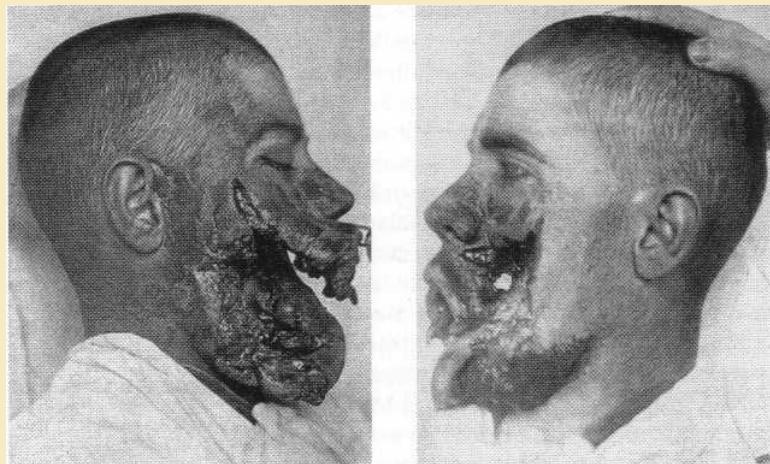


*Österreich 1914*

# Zermalmte Gesichter im 1. WK und davor



8. Mai 1863, US-Bürgerkrieg

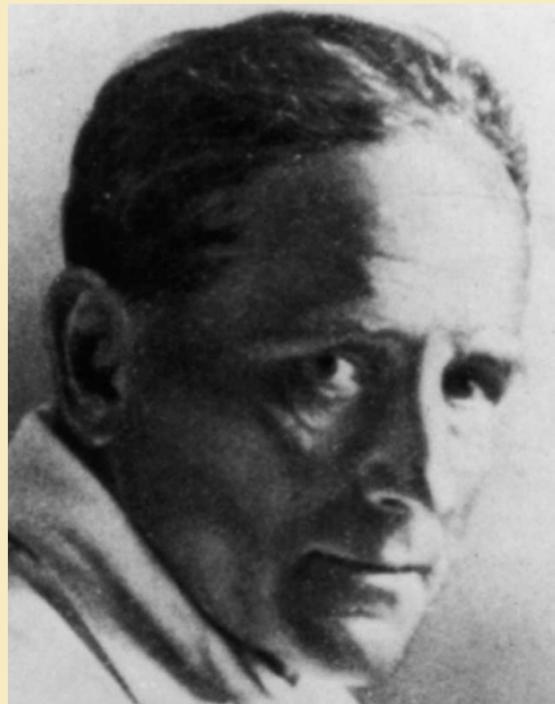


Narrenturm, Syphilis



# Anton v. Eiselsberg

1860-1939  
Dubno



Hans Pichler  
1877-1949  
*Freuds Chirurg 1923-1939*  
Begründer d. Kieferchirurgie

Chirurgengruppe IV. Prof. Freih. von Eiselsberg.  
Sadowskaja bei Dubno.



Ansicht von Sadowskaja.



Operationsraum.



„Bügel“-Verband.



„Zug“-Verband.



Ankunft von Verwundeten.



Kopfschußoperation.



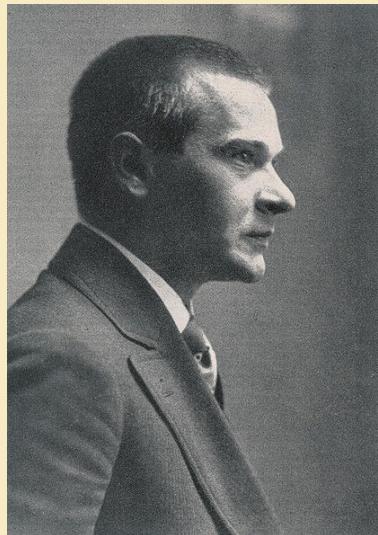
Krankenzimmer (Kopfschüsse).



Genesende im Freien.

# Georg Trakl

1887-1914, Mag. Pharm.



Militärkrankenhaus Krakau

## Grodek

Am Abend tönen die herbstlichen Wälder  
Von tödlichen Waffen, die goldenen Ebenen  
Und blauen Seen, darüber die Sonne  
Düster hinrollt; umfängt die Nacht

Sterbende Krieger, die wilde Klage

Ihrer zerbrochenen Münder.  
Doch stille sammelt im Weidengrund  
Rotes Gewölk, darin ein zürnender Gott wohnt,  
Das vergossne Blut sich, mondne Kühle;

Alle Straßen münden in schwarze Verwesung.

Unter goldnem Gezweig der Nacht und Sternen  
Es schwankt der Schwester Schatten durch den schweigenden Hain,  
Zu grüßen die Geister der Helden, die blutenden Häupter;  
Und leise tönen im Rohr die dunkeln Flöten des Herbstes.

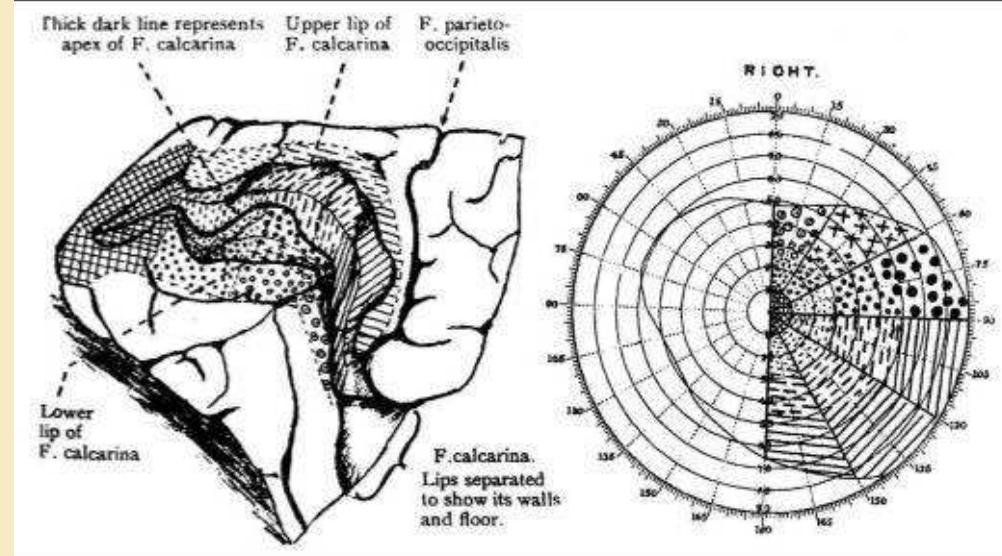
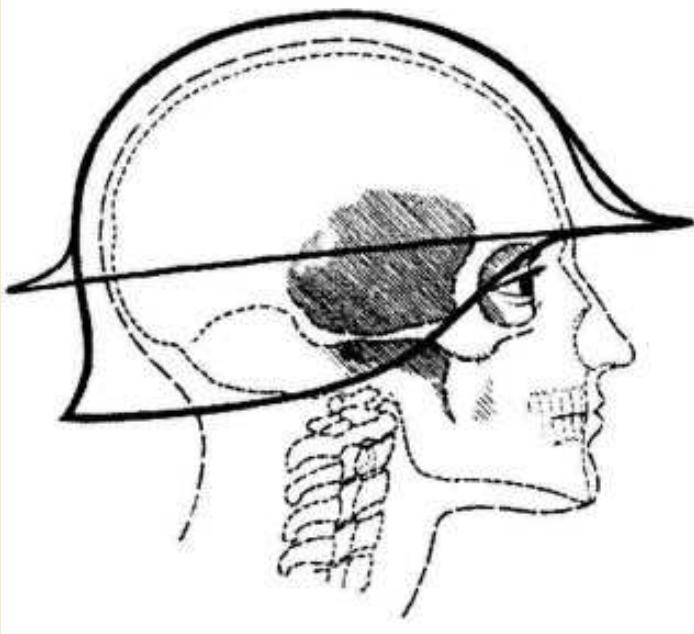
O stolzere Trauer! ihr ehernen Altäre,

Die heiße Flamme des Geistes nährt heute ein gewaltiger Schmerz,  
Die ungeborenen Enkel.

(September 1914)



# Helm 1915 wieder- eingeführt



Douglas Lanska 2009

1513



1955

# **Sir Harold Gillies 1882-1960**

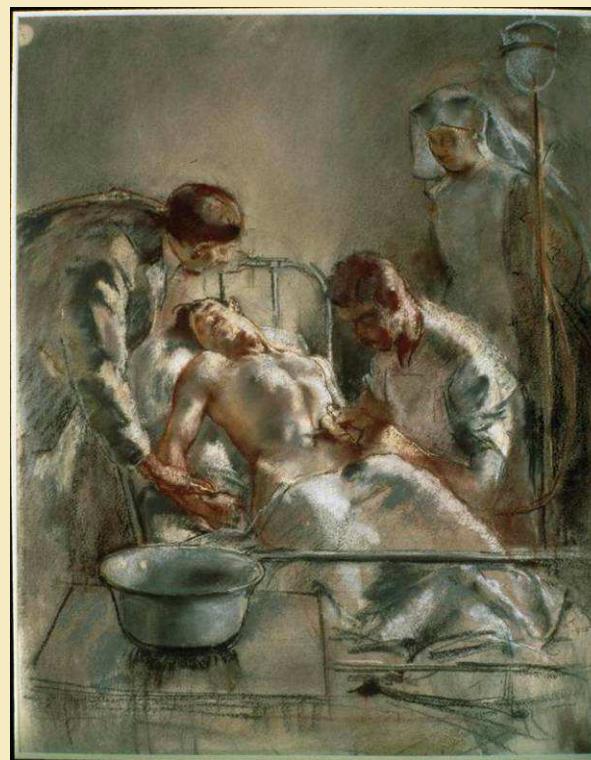
HNO-Arzt, Pionier der rekonstruktiven Chirurgie



*Deutschland, Österreich*  
**Jacques Joseph** 1865-1934, Berlin  
**Erich Lexer** 1867-1937, München  
**Johannes Esser** 1877-1946 Brünn

# Henry Tonks, Arzt und Maler

## Mitarbeiter von Harold Gillies



Irak-Veteran

# Giftgas



Bundesarchiv, Bild 103-R05923  
Foto: o. Ang. | 1916/1918 ca.



# Giftgas Flandern 10. April 1918



*John Singer Sargent*

# em. Univ.-Prof. Dr. Gerhard Freilinger



Auf Initiative von Gerhard Freilinger konnten zahlreiche Giftgasopfer in Wien behandelt werden.

© Archiv Freilinger



Nekrotisierende Schleimhaut in den oberen Atemwegen.

© Freilinger

# Der Krieg und die Nerven.

Von

Dr. A. Alzheimer

ord. Prof. der Psychiatrie und Neurologie an der Universität Breslau.

Dieser Vortrag wurde zum Besten des Breslauer Nationalen  
Frauendienstes als Kriegsvortrag Breslauer Hochschullehrer  
1915 gehalten und erscheint hiermit in erweiterter Form.



Breslau 1

Verlag von Preuß & Jünger  
(Inh. Kropff & Weinberger)  
1915.

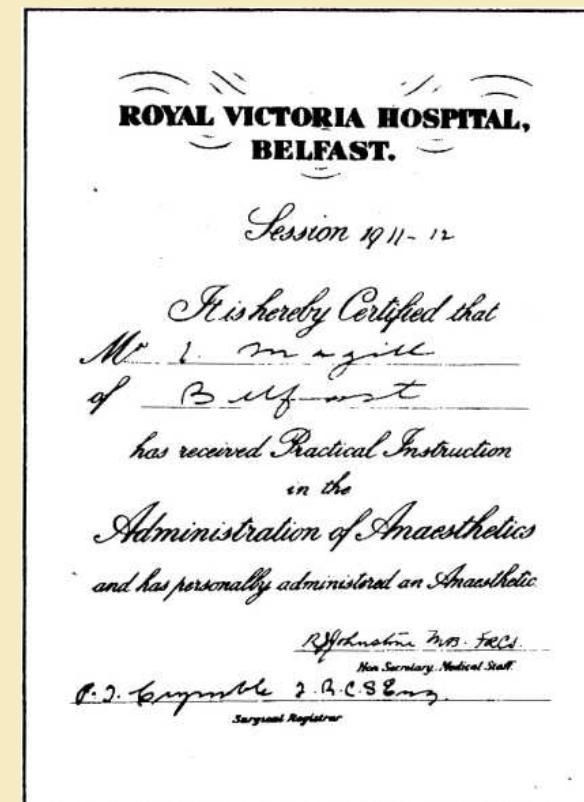
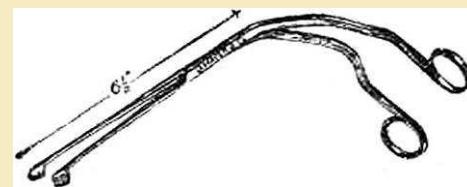
# Alois Alzheimer, 1864-1915

Art mit außerordentlicher Leichtigkeit psychische oder auch sogar manigfache körperliche Störungen verursachen können. So sehen wir z. B., daß Soldaten im Kriege, in deren unmittelbarer Nähe eine Granate platzt, ohne daß sie von Sprengstücken getroffen oder überhaupt verletzt werden, also allein infolge des heftigen Schreckens Sprache oder Gehör oder beides verlieren, also taubstumm werden, oder an beiden Beinen oder an einer Körperhälfte Lähmungen zeigen, oder daß sich Krämpfe einstellen, oder daß sich ein sogenannter Dämmerzustand entwickelt, ein traumartig getrübter Zustand des Bewußtseins, in welchem die Kranken unorientiert sind über Ort und Zeit, und allerlei verwirrte, oft an das Schreckerebnis anknüpfende oder damit im Zusammenhang stehende Äußerungen vorbringen.

Bei anderen wieder entwickeln sich die Krankheitsscheinungen weniger plötzlich. Nach einem anstrengenden Marsch versagen die Beine und werden schließlich völlig gelähmt. Nach irgendeiner Erregung tritt ein ständiges Zittern an den Händen oder allen Extremitäten auf.

# Endotracheale Intubation

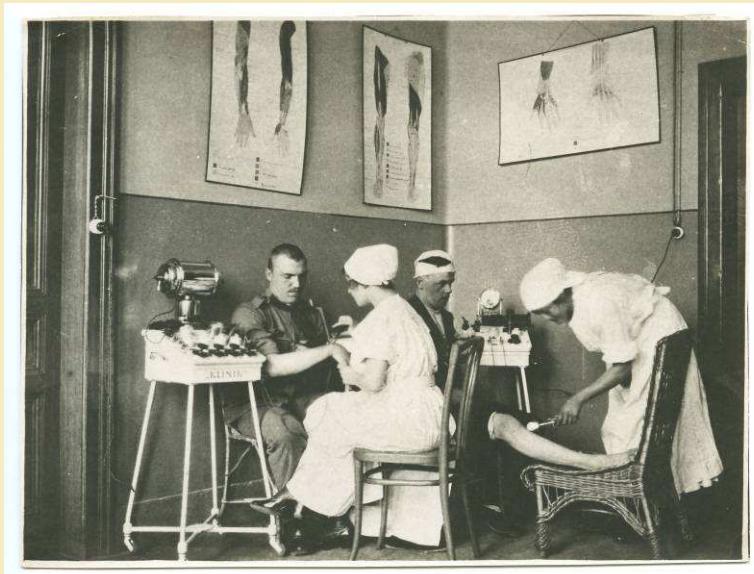
## Ivan Magill 1888-1986





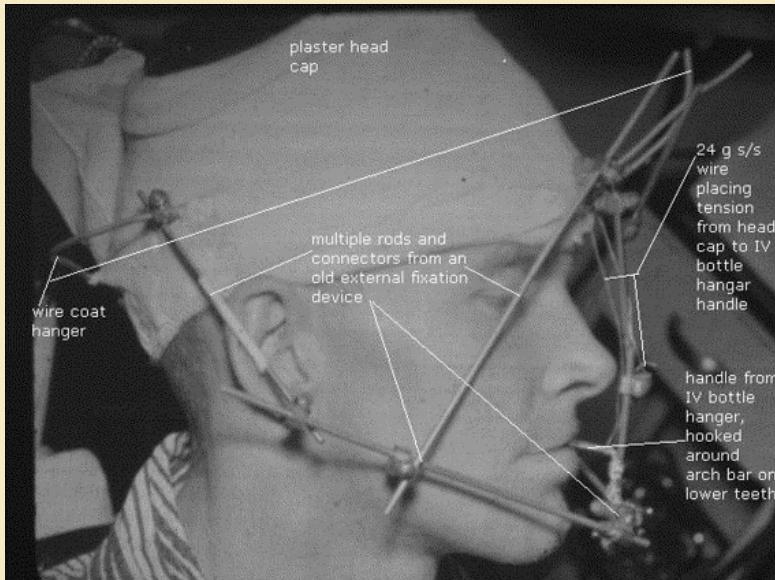
# Erster Weltkrieg

## Entwicklungsschub für Medizin, neu entstandene **Kopf-Hals-Fächer**



Danksagung : Heeresgeschichtliches Museum Wien, Mag. Peter Enne  
Vgl. Leo van Bergen 2007: *Value of war for medicine ?*

# Korea, Afghanistan & Irak



## CLINICAL STUDIES

### WARTIME TRAUMATIC CEREBRAL VASOSPASM: RECENT REVIEW OF COMBAT CASUALTIES

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University of Texas,  
Medical Branch,  
Galveston, Texas

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Department of Neurology,  
Uniformed Services University  
of the Health Sciences,  
Bethesda, Maryland

Thomas J. DeGraba, M.D.

**OBJECTIVE:** Blast-related neurotrauma is associated with the severest casualties from Operation Iraqi Freedom (OIF). A consequence of this is cerebral vasospasm. This study evaluated all inpatient neurosurgical consults related to battle injury from OIF.

**METHODS:** Evaluation of all admissions from OIF from April 2003 to October 2005 was performed on patients with neurotrauma and a diagnostic cerebral angiogram. Differences between patients with and without vasospasm and predictors of vasospasm were analyzed.

**RESULTS:** Fifty-seven out of 119 neurosurgical consults were evaluated. Of these, 47.4% had traumatic vasospasm; 86.7% of patients without vasospasm and 80.8% of patients with vasospasm sustained blast trauma. Average spasm duration was 14.3 days, with a range of up to 30 days. Vasospasm was associated with the presence of pseudoaneurysm ( $P = 0.05$ ), hemorrhage ( $P = 0.03$ ), the number of lobes injured ( $P = 0.012$ ), and mortality ( $P = 0.029$ ). Those with vasospasm fared worse than those without ( $P = 0.002$ ). The number of lobes injured and the presence of pseudoaneurysm were significant predictors of vasospasm ( $P = 0.016$  and  $0.02$ , respectively). There was a significant quadratic trend towards neurological improvement for those receiving aggressive open surgical treatment ( $P = 0.002$ ). In the vasospasm group, angioplasty with microbal-

The anatomical location of the injuries suffered by personnel who survived their wounds is shown in the following list. The figures in brackets are shown for the purposes of comparison and represent the average relative percentages of penetrating injuries registered in earlier wars. The analysis covers the First and Second World Wars, the Korean War, the Vietnam War, the conflict in Northern Ireland, the Falklands War, the First Gulf War, and the conflicts in Chechnya and Somalia [9]:

- Head (cranium, face, eye, ear, throat and neck): 15–30% (15%)
- Trunk (thorax, back, stomach, pelvis, groin and buttocks): 10–35% (20%)
- Extremities (shoulder to hand and thigh to foot): 60–90% (65%)



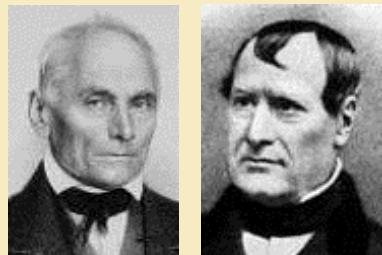
# Robert Bárány 1876 – 1936

## Nobelpreis 1914

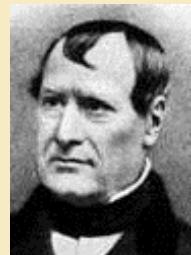
[www.nobelprize.org/nobel\\_prizes/medicine/](http://www.nobelprize.org/nobel_prizes/medicine/)



1906, 1912



J. Purkyně  
1787-1869  
1820



M. Flourens  
1794-1867  
1825



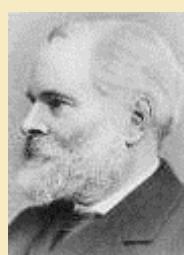
J. Czermak  
1828-1873  
1860



P. Menière  
1799-1862  
1861



Fried. Goltz  
1834-1902  
1870



Crum Brown  
1838-1922  
1874



E. Mach  
1838-1916  
1873,74



J. Breuer  
1842-1925  
1874,75



J.R. Ewald  
1855-1921  
1892

Fotos: Heeresgeschichtliches Museum Wien ; Wikipedia ; Denver Mus. Nat. Sci.