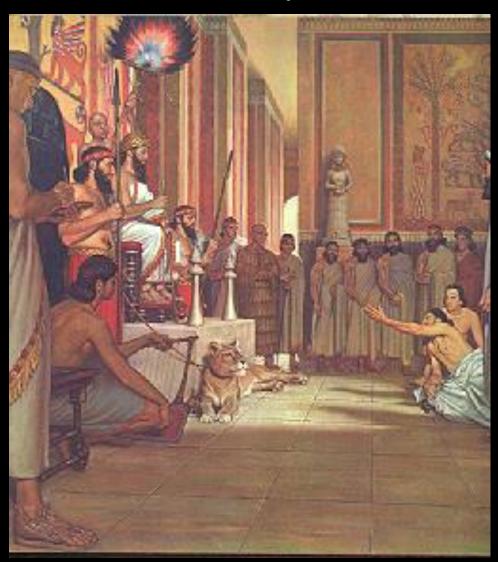
The CPT Code of Hammurabai or the more things change...

Jamie Newman, M.D., MHA
Hospital Internal Medicine
Mayo Clinic Rochester
@DrJamieNewman
Newman.James@Mayo.edu

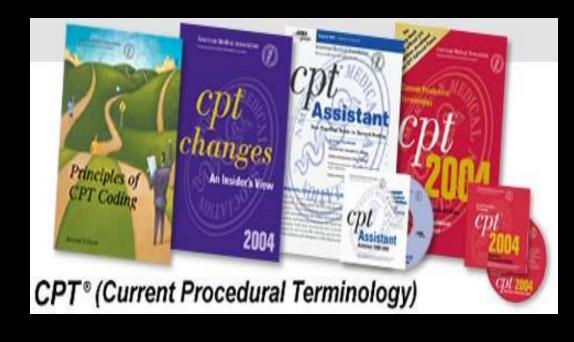
How the past informs the present

The Code of Hammurabai

18th Century B.C.







Code of Hammurabai Handed down by Shamash God of Justice 18th Century B.C.

Code of CPT

Handed down from AMA Twentieth Century A.D.

Code of Hammurabai cont.

Fees and Punishment based on patients' caste

Successful operations	Awelum Mushkenum		Wardum	
Setting bone or mending sinew	5 shekels	3 shekels	2 shekels	
General operation	10 shekels	5 shekels	2 shekels	
Operation on eye	10 shekels — 5 shekels		2 shekels	
Unsucœssful operations				
Setting bone or mending sinew				
General operation	loss of hand	<u> </u>	slave for slave	
Operation on eye	loss of hand) —	slave's pri <i>c</i> e	

A few comments about Malpractice...



2003

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tru - Les Champeaux Me or houself per MAINE DENIS MORTET





2003





2003

3350

Minimilian DOMAINE DENIS MORTE! THE SHARE WHEN PERSON ASSESSMENT OF THE PERSON OF THE PERS

MULICION CEVER

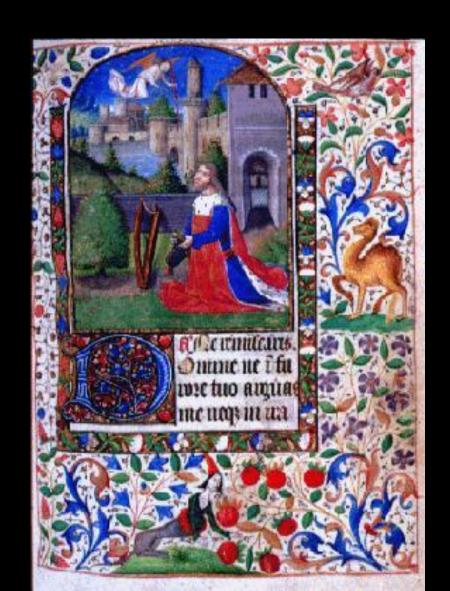
DOMAIN

* AND DESCRIPTION OF STREET

Medieval Surgeons 1100 A.D.



Patients would have to give a written guarantee that no harm should befall the surgeon in the event of a fatal outcome



The Visigothic Code

Spain 7th century



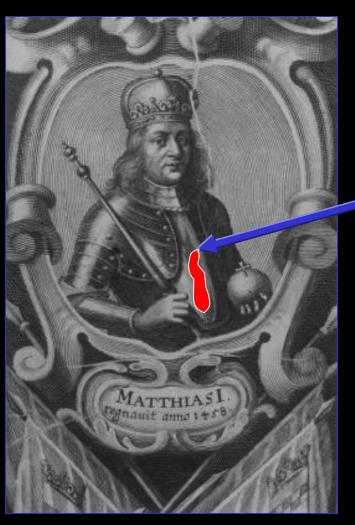
• If noble injured ...

100 solidi fee

• If that noble dies physician handed over to the family to be dealt with as they pleased...

slavery or death

King Mathias of Hungary



• In 1464 King Mathias said whomever cured him of his arrow wound would be rewarded, but failure would be rewarded with death

The Curse of Litigation 1773



The injured patient is forced to pay the majority of his settlement to his lawyer

Malpractice in America

- 1840 's
- Duty,
- Breach of Duty,
- Causation
- Injury
- malpractice insurance
- contingent fees
- citizen juries
- Tort Law



Florida and Malpractice

W.R. Palmer v. James M. Jackson, Jr, 1911

The earliest medical malpractice case in the State of Florida.

The defendant physician prevailed using a novel defense... statute of limitations had expired



Dr William Mayo

Memorandum to surgeons and clinical section regarding letter writing July 1930

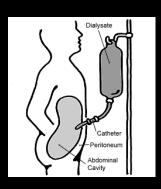
*Do not prescribe for patients you have not seen,...such letter could be construed as practicing medicine by mail and might even lead to malpractice.

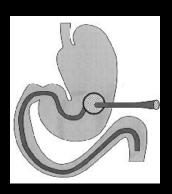
*If you want to call a man a liar and a thief, do not write him...tell him in person, but make sure you can run faster than he can

Malpractice as a Criminal Offense

Medicine, Death, and the Criminal Law Annas GJ NEJM Aug. 24 1995

- Dr Gerald Einaugler used PD cath for Tube Feed.
- Inadvertent error was using tube for wrong purpose
- Willful negligence for delaying transfer for 10 hours lead to incarceration

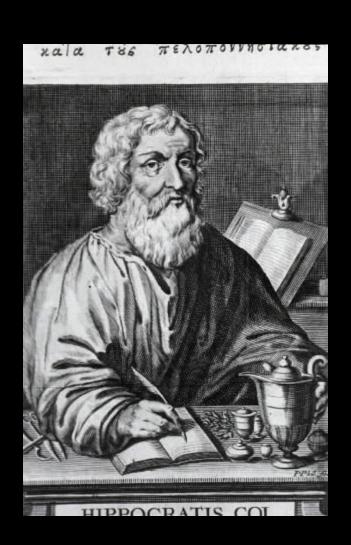




Documentation

Hippocratic Clinical Cases

42 clinical case records, 25 of which had fatal outcome



Primum Non Nocere

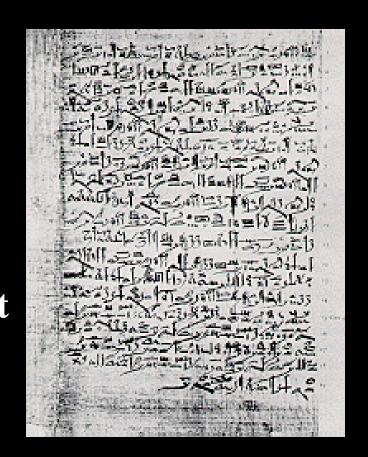
Sans Documenta

On the subject of documentation...

Edwin Smith Papyrus 1600 B.C.

48 cases of clinical surgery,
each with a standard arrangement
of information, examination
findings, semiology, diagnosis,

prognosis and treatment.



Homer's Iliad from the archives of Oxyrhynchus



Iliad War Wounds

147 Total Wounds 77.6 % mortality

106 Spear wounds 80% mortality

17 sword thrusts 100% mortality

12 arrow wounds 42% mortality

12 sling wounds 66 2/3% mortality

Of Fatal Cases - Head-31 Neck 13 Arm -10

Leg 11 Chest 67 Note none to abdomen

Froelich- Die Militarmedicin Homers 1879

Mayo Clinic and the Dossier

•Henry Plummer, M.D., introduces the dossier concept of medical records, wherein all data, both inpatient and outpatient, about a specific patient are contained in a single file linked to a unique Mayo Clinic identification number and stored in a central repository.

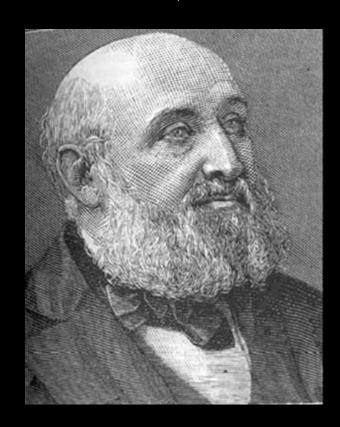


July 19, 1907 First Patient registration number assigned, 5000 registered by end of year. Some staff resistance to "red tape"

William Farr (1807-1883)

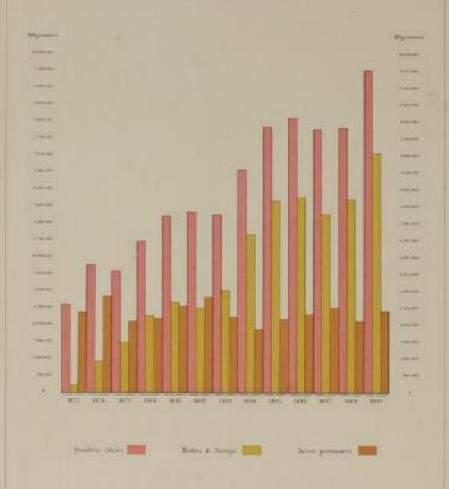
- General Register Office of England and Wales
- First Medical Statistician 1837

"Each disease has, in many instances, been denoted by three or four terms, and each term has been applied to as many different diseases: vague, inconvenient names have been employed, or complications have been registered instead of primary diseases."



Quantities d'Huitres introduites dans Pirra de 1877 a 1889.

Ridely is and year Joseph Halpinson



LEGENDE

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Acres : Expert on An assessment & Paris on 1900 (page 70 or selection).

MOUVEMENT DES ABATTOIRS Nombre per espera et per akatten, des animore







Venter.

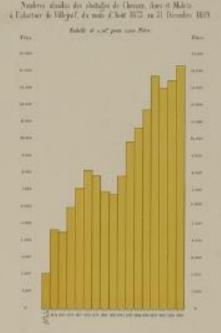
986-822



Greatle [1]

Villegeif Formers

Notices segon mensols des abstables de Chesara, Jane et Halets à l'Abatteir de Villegall de 1881 à 1888, respecte aux confess correspondante de 1823.



KAR & AN year on Peac. State.

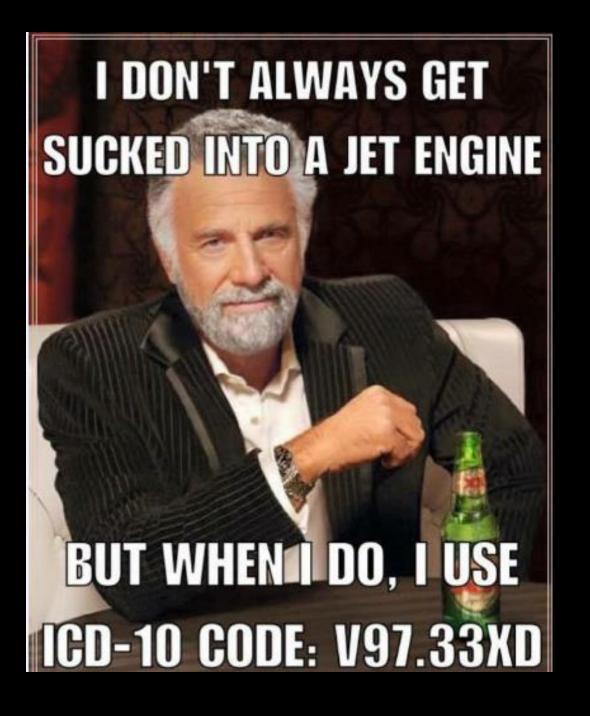
1005 - 1008 - 100

1905

W61.33 Pecked by a Chicken







True Fact?

• Bitten by a tiger

T26.78XV

- Armadillo Exposure A33.43YZ
- Struck by and Orca- W56.22XA

• Contact with a Macaw W61.19XS

- Pedestrian on roller skates injured in a collision with three-wheeled motor vehicle V02.91XA
- Drowning and submersion due to jumping from burning kayak V90.26XS
- Somnolence due to conference attendance $\overline{ZZZ},\overline{ZZZ},\overline{ZZZ}$

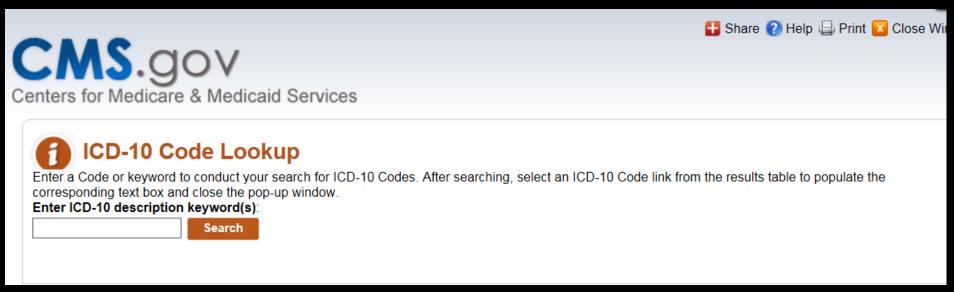
Red's not real...

• Bitten by a tiger

T26.78XV

- Armadillo Exposure A33.43YZ
- Struck by and Orca- W56.22XA
- Contact with a Macaw W61.19XS
- Pedestrian on roller skates injured in a collision with three-wheeled motor vehicle V02.91XA
- Drowning and submersion due to jumping from burning kayak V90.26XS
- Somnolence due to conference attendance ZZZ.ZZZZZZZZ

ICD-10 find your code..



https://www.cms.gov/medicare-coverage-database/staticpages/icd-10-code-lookup.aspx?

Yup, these codes are real



ICD-10 Code Lookup

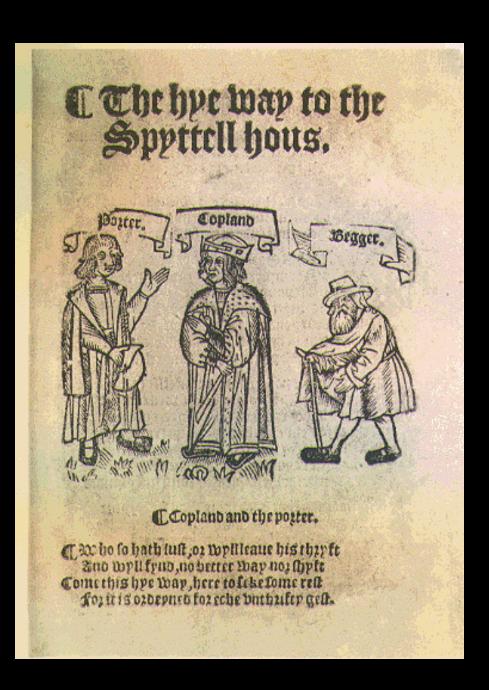
Enter a Code or keyword to conduct your search for ICD-10 Codes. After searching, select an ICD-10 Code line corresponding text box and close the pop-up window.

Enter ICD-10 description keyword(s):

chicken	Search
---------	--------

ICD-10 CODE	ICD-10 CODE DESCRIPTION
W61.32XA	Struck by chicken, initial encounter
W61.32XD	Struck by chicken, subsequent encounter
W61.32XS	Struck by chicken, sequela
W61.33XA	Pecked by chicken, initial encounter
W61.33XD	Pecked by chicken, subsequent encounter
W61.33XS	Pecked by chicken, sequela
W61.39XA	Other contact with chicken, initial encounter
W61.39XD	Other contact with chicken, subsequent encounter
W61.39XS	Other contact with chicken, sequela
Y92.72	Chicken coop as the place of occurrence of the external cause

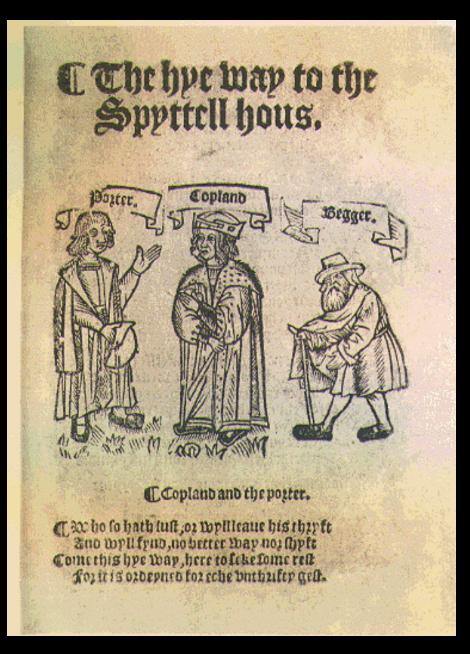
On Admissions



Historical Perspective

London 1536

Forsoth yea/we do all suche folke in take
That do aske lodgyng for our lordes sake
And in dede it is our custome and vse
Somtyme to take in/and some to refuse.



Accepted

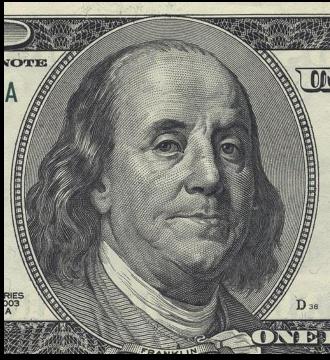
- Old people
- Poore women in childbed
- Men sore wounded by great Vyolence
- Eaten with pokes and pestylence
- Honest foulks in great poverty
- Maimed soudyours

<u>Denied</u>

- Mylchers
- Hedge Creepers
- Vagabonds

The Pennsylvania Hospital 1752





Rules and Regulations- Credentialing, admission guidelines and of course, fund raising

Utilization Data

ABSTRACT of Coses admitted into the Permsylvania Hospital, from the Eleventh of the Second Month, 1752, to the Twenty-seventh of the Pourth Month, 1754.

<u></u>	 -		 -		 -			 _
	Admitted.	Cutted.	Relieved.	lengular Beha- riour	Incurable.	Taken away by their Friends.	Dead.	Receiving
AGUES -	5 2	3 2				!	_ }	- 1
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Admitted

Cured

Relieved

Irreg.
Behaviour

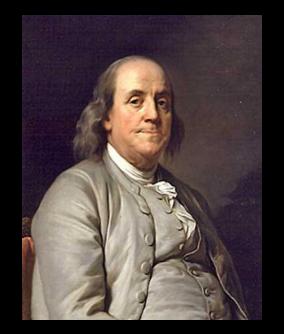
Incurable

Taken by family

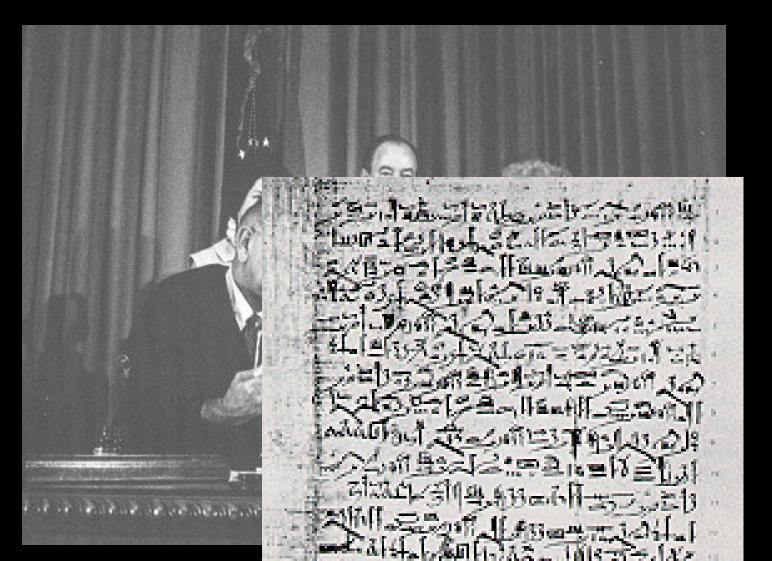
Dead

The Pennsylvania Hospital-Admit Criteria

- Patient must be deemed "curable" (except Lunatiks)
- Must require the particular conveniences hospital (severity of illness)
- No infectious distempers (ie smallpox or itch) unless proper apartments available (isolation beds)
- Women may not bring their children
- Must be resident of the city
- Out of town patients- pre-approval by managers
- Security deposit to cover discharge costs or burial



Washington D.C. 1965



IPPS 2014 "Day is night, and night is day"



The First IPPS Inpatient Prospective Payment System 1983

• Established the DRG system

Why New Requirements?

- Reduce long observation stays
 - Patients hate OBS
 - Abuse of OBS
 - Gaming the payment system
 - Avoiding readmission penalty
- Reduce one day inpatient stays
 - Deals with abuse especially in surgery
 - Audit focus

Inpatient Is A Three Legged Stool (Until Januray 2015....)

- Medical Necessity
- Admit Order
- Certificat

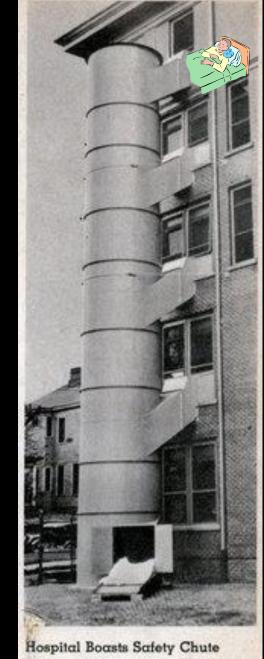




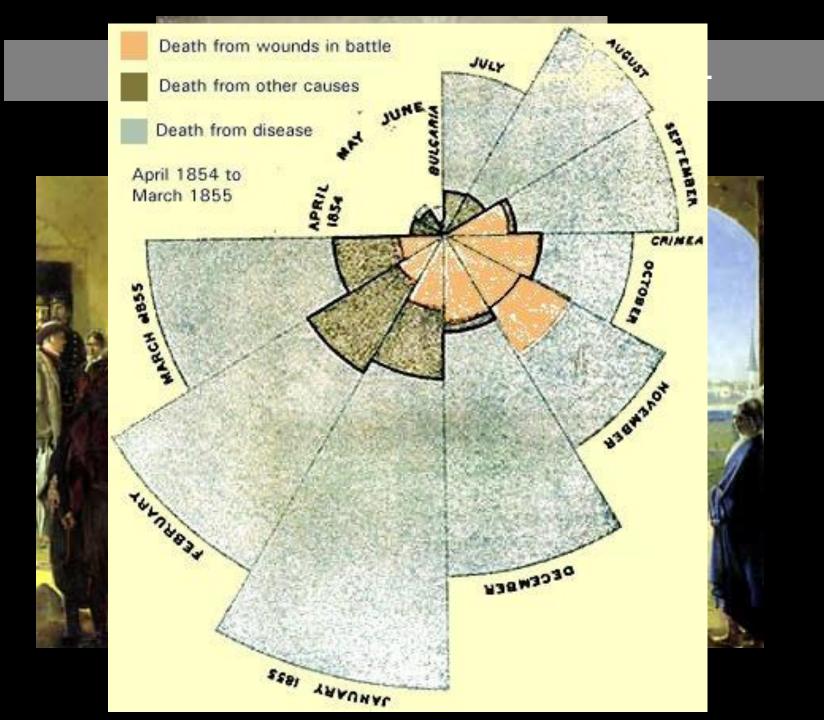
Hospital Safety

What is Safe?

Freedom from accidental or preventable injury



The Piedmons Hospital in Adanta, Ga., is equipped with a spiral chare by means of which bed-cidden perions can reach the ground quickly in the event of tire. On each floor of the hospital there is an entrance to the chute and in an etter-gency the perions are slid down if on a manner.





BATTLE OF.



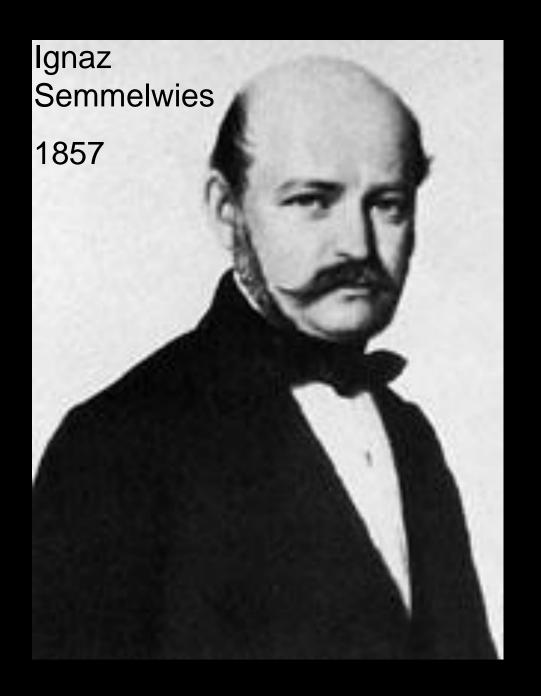
WATERLOO.



What would you do if 30% of all your patients died?



Figure 70.—The Allgemeines Krankenhaus (general hospital), Vienna, affiliated with the University of Vienna Medical School.





Die Aetiologie, der Begriff

und

2633

die Prophylaxis

des

Kindbettfiebers.

Von

Ignaz Philipp Semmelweis,

Dr. der Mediein und Chirurgie, Magister der Geburtshilfe, o. ö. Professor der theoretischen und practischen Geburtshilfe an der kön. ung. Universität zu Pest

etc. etc.

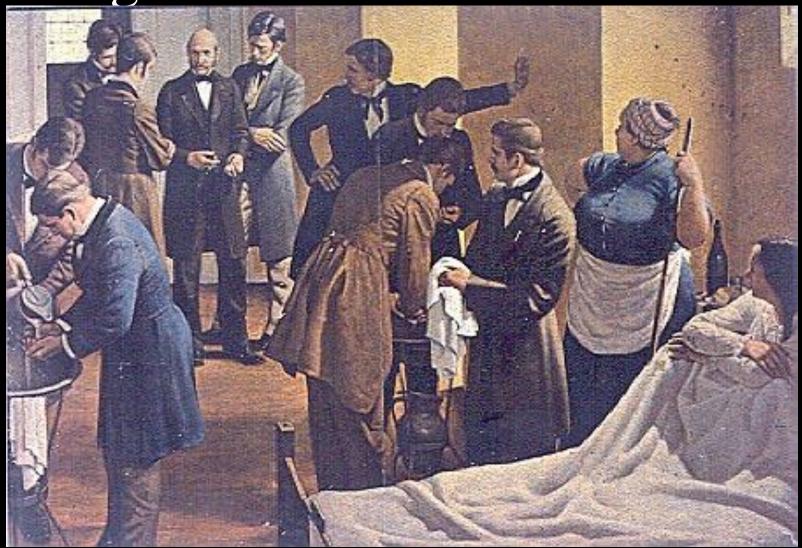


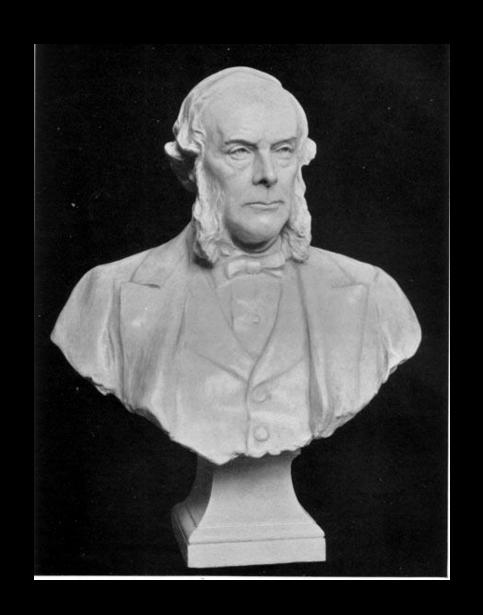


Pest, Wien und Leipzig.

C. A. Hartleben's Verlags-Expedition.

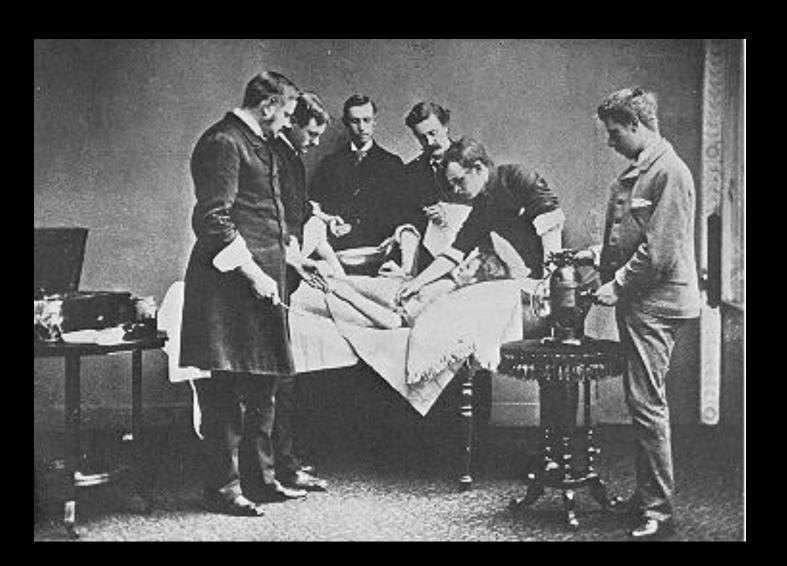
Ignaz Semmelweis 1818-1865







Joseph Lord Lister (1827-1912),





Carbolic Acid Sprayer, 1882

The Hands Give It Away



N ENGLJ MED 360;3 NEJM.ORG JANUARY 15, 2009

Curtis J. Donskey, M.D. Brittany C. Eckstein, B.S.

Cleveland Veterans Affairs Medical Center Cleveland, OH 44106



□ DRUG SCRNS/TOXICOLOGY			
Volatile Screen,S			16-Dec-11
Methanol, S			04-Sep-12
Ethanol, S	Δ	249	04-Sep-12
Acetone, S	Δ	20	04-Sep-12
Isopropanol, S	Δ	15	04-Sep-12
Ethanol, P/S	Δ	313	21-26 b-12
Ethanol, P	Δ	350	15-Sep-11
Ethylene Glycol(S)			04-Sep-12

Day 3
Hospitalization



License and Credentials

From Persia to Philadelphia

The Vendidad

- Persian Book of Law
- cult of Zoraster 1000 B.C.
- Competence of candidate based on practice on 3 heretics
- if unfit then further practice related deaths were homicide



French Postcard

Medieval Credentialing

- Roger of Sicily 1140-Practice without a license and go to prison, lose all possessions
- Grandson Frederick 1224required 3 years logic,
 medicine and surgery, 5 years
 of treating the poor for free.
 Subsequently all patients seen
 for a set fee



Roger's Coronation Mantle

Henry VIII



English Act of 1511 No practice without an exam and approval of 4 physicians

Colonial Virginia

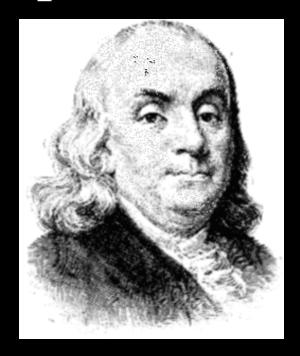


• Candidate to practice had to be judged by the "Wisest and Gravest" as competent

Hospital- Colonial Virginia

The Pennsylvania Hospital 1752





Applying practitioners must be 27 years old, and have served an apprenticeship in Philadelphia, have studied Physick or Surgery for 7 years or more and undergone an exam by 6 hospital practitioners. Visiting practitioners must reside in the city for 3 years before applying and then undergo the same criteria

Hospital Committees

•French P + T committee 1821





- •Maryland Medical Society 1799-
- disorderly conduct fines

Practice Guidelines

Egyptian Clinical Pathways

The Hermetic Books of
Thoth- If a patients death
resulted from deviation
from the set line of
treatment is is regarded as a
capital crime



Aristotle notes they could alter care plan on fourth day if no improvement

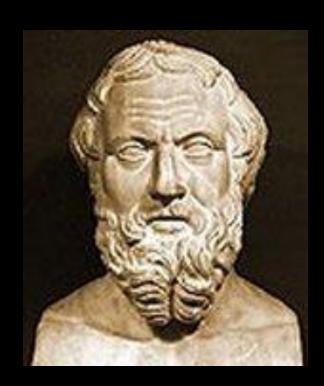
Rembrandt's Aristotle Contemplating the Bust of Homer



Specialization

Ebers Papyrus Herodotus





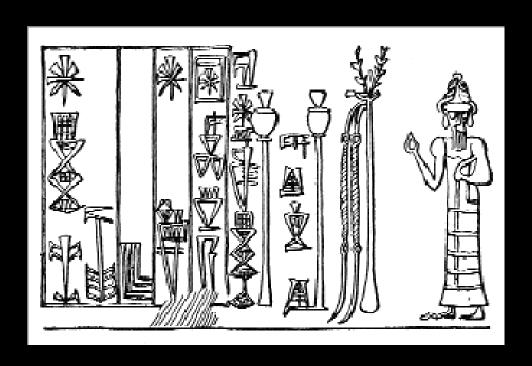
The land is filled with physicians, one for the hand one for the eye

Given one well trained mind of the highest type, He will do better work for 100 people then 10 specialists

Will Mayo 1921

A good specialist needs to advertise...

Babylonian Business Card



O Edinmagi, servant of the god Girra, who helps mothers in childhood, Ur-Lugaledina the physician is your servant

That's so Byzantine...



Pantokrator Hospital

Founded 1136 in Constantinople by Emperor John II Komnenos

Lazaretto and gerontochium

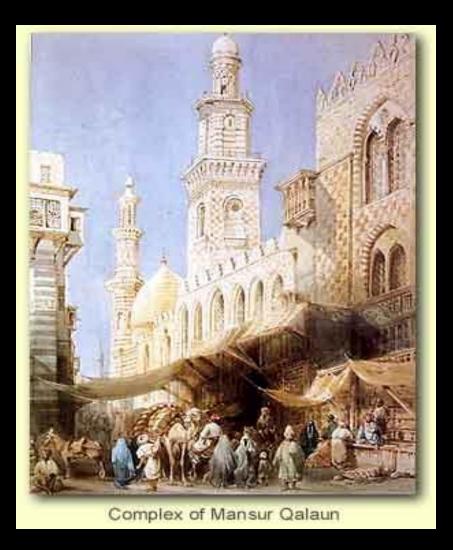
50 beds in 5 sections for -wounds and fractures (10), eyes and stomach (8), women (12), two mens wards (10 each) 16 physicians and 2 surgeons with (one female physician!).



3300 cal daily diet-bread, veggies and 2 onion heads

The Mansuri Hospital in

Cairo, completed in 1248 AD



"The hospital shall keep all patients, men and women, until they are completely recovered. All costs are to be borne by the hospital, whether they are residents or foreigners, strong or weak, rich or poor, employed or unemployed, blind or sighted, physically or mentally ill, learned or illiterate..."

So nothing has changed; but everything has...

- Malpractice
- Documentation
- Credentialing
- Utilization Review
- Fundraising

@DrJamieNewman Newman.James@mayo.edu