

АКТУАЛЬНЫЕ НАУЧНЫЕ
НАПРАВЛЕНИЯ В
ФУНДАМЕНТАЛЬНОЙ МЕДИЦИНЕ

ЗАЧЕМ?

- Жить дольше
- Жить лучше
 - Не болеть
- Быстро лечиться

ГДЕ ИСКАТЬ?

- Биохимия
- Биофизика
- Молекулярная биология
- Клеточная биология и цитология
- Гистология и анатомия
- Физиология
- Этология
- Экология
- Генетика
- Биология развития

...И ЭТО НЕ ВСЁ!

ШКАЛА SCORE

ПРОГРАММНЫЕ И НЕПРОГРАММНЫЕ ПОМОЩНИКИ ВРАЧА

	Некурящие	Курящие	Возраст	Некурящие	Курящие
180	7 8 9 10 12	13 15 17 19 22	65	14 16 19 22 26	26 30 35 41 47
160	5 5 6 7 8	9 10 12 13 16		9 11 13 15 16	18 21 25 29 34
140	3 3 4 5 6	6 7 8 9 11		6 8 9 11 13	13 15 17 20 24
120	2 2 3 3 4	4 5 5 6 7		4 5 6 7 9	9 10 12 14 17
180	4 4 5 6 7	8 9 10 11 13	60	9 11 13 15 18	18 21 24 28 33
160	3 3 3 4 5	5 6 7 8 9		6 7 9 10 12	12 14 17 20 24
140	2 2 2 3 3	3 4 5 5 6		4 5 6 7 9	8 10 12 14 17
120	1 1 2 2 2	2 3 3 4 4		3 3 4 5 6	6 7 8 10 12
180	2 2 3 3 4	4 5 5 6 7	55	6 7 8 10 12	12 13 16 19 22
160	1 2 2 2 3	3 3 4 4 5		4 5 6 7 8	8 9 11 13 16
140	1 1 1 1 2	2 2 2 3 3		3 3 4 5 6	5 6 8 9 11
120	1 1 1 1 1	1 1 2 2 2		2 2 3 3 4	4 4 5 6 8
180	1 1 1 2 2	2 2 3 3 4	45	4 4 5 6 7	7 8 10 12 14
160	1 1 1 1 1	1 2 2 2 3		2 3 3 4 5	5 6 7 8 10
140	0 1 1 1 1	1 1 1 1 2		2 2 2 3 3	3 4 5 6 7
120	0 0 1 1 1	1 1 1 1 1		1 1 2 2 2	2 3 3 4 5
180	0 0 0 0 0	0 0 0 1 1	40	1 1 1 2 2	2 2 3 3 4
160	0 0 0 0 0	0 0 0 0 0		1 1 1 1 1	1 2 2 2 3
140	0 0 0 0 0	0 0 0 0 0		0 1 1 1 1	1 1 1 2 2
120	0 0 0 0 0	0 0 0 0 0		0 0 1 1 1	1 1 1 1 1
	4 5 6 7 8	4 5 6 7 8		4 5 6 7 8	4 5 6 7 8

Summary points

Narratives are essential to a patient's episode of illness

Poor communication is more often detrimental to patients than lack of knowledge

Computers should enable clinicians to capture narratives easily

The structure of the patient's record strongly influences the ease of information retrieval

ПРОГРАММНЫЕ И НЕПРОГРАММНЫЕ ПОМОЩНИКИ ВРАЧА



Walsh SH. The clinician's perspective on electronic health records and how they can affect patient care. *BMJ : British Medical Journal*. 2004;328(7449):1184-1187.

ДИАГНОСТИЧЕСКИЕ ТЕСТЫ, СКРИНИНГ, ВИЗУАЛИЗАЦИЯ

The PSA test in numbers: What results can be expected?

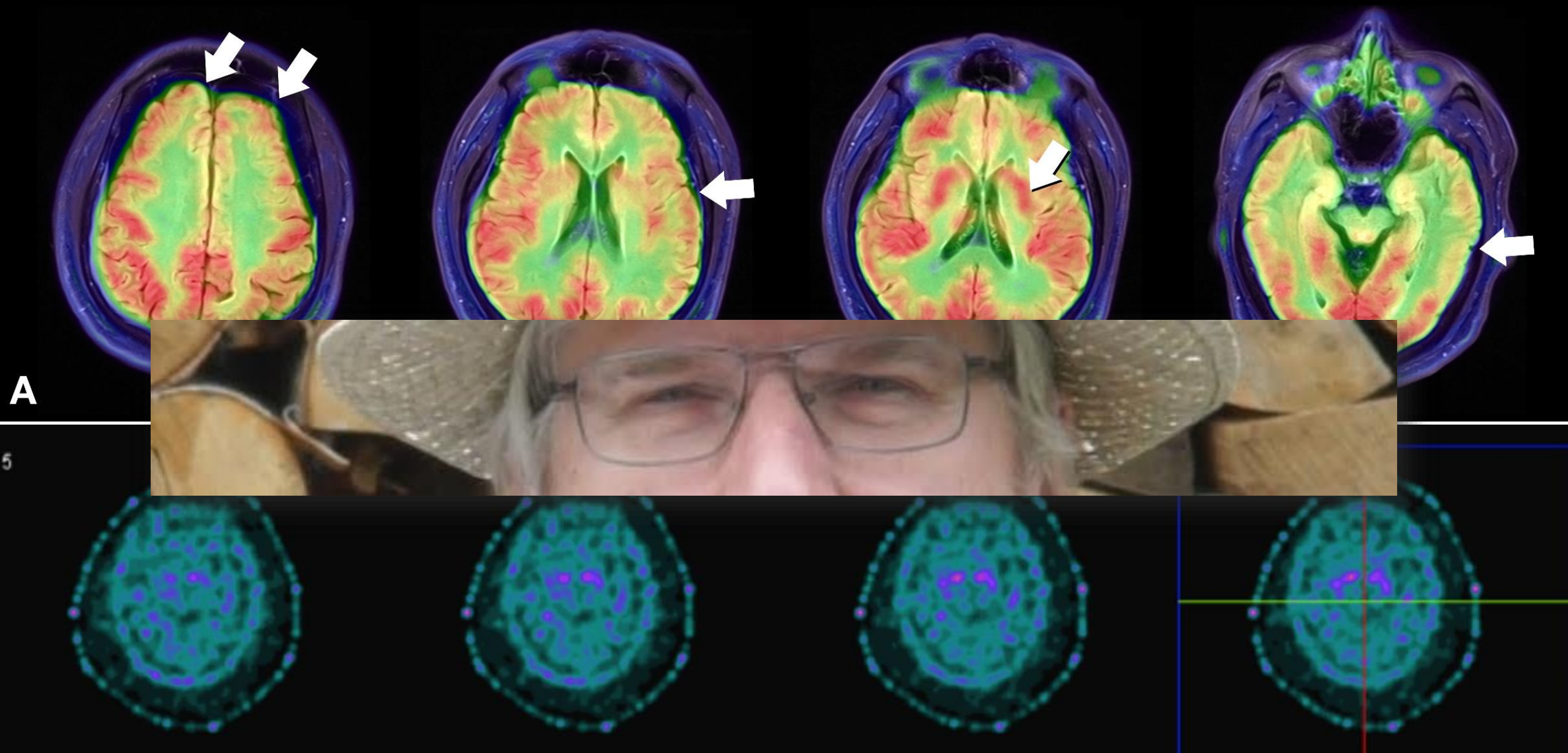
The data from the major European study can be used to get a rough idea of what can be expected from PSA screening.

If 1,000 men between the ages of 55 and 69 regularly have PSA screening tests over a time period of 13 years, the following results can be expected:

- About 760 men will have normal results.
- About 240 men will have a high PSA level. Most of these men will then have [tissue](#) samples taken from their [prostate](#) to check the [organ](#) for cancer cells.
- In about 140 of these men, the [biopsy](#) will not find any [prostate cancer](#). The [PSA test](#) will have been a false alarm.
- In about 100 men with abnormal PSA levels, cancerous [cells](#) will be found. Depending on how large and aggressive the [cancer](#) is, various [treatments](#) may be considered: common ones include "active surveillance," radiotherapy or [surgery](#).

How great are the benefits and risks of PSA screening?

- If 1,000 men participate in the PSA screening program, about 1 to 2 deaths from [prostate cancer](#) will be prevented.
- The spread of the [cancer](#) to other parts of the body ([metastasis](#)) will be prevented in about 3 out of 1,000 men.
- But the test will also detect [tumors](#) and [cell](#) changes that would never have caused any problems. This kind of "overdiagnosis" is estimated to occur in about 30 out of 1,000 men who take part in this screening program, and they may receive unnecessary [treatment](#) as a result.



A. Tran, K. Chan, V. Kharidi, E. Goldstein, R. Burns, P. Reyes. PET-MRI Imaging in Parkinson Dementia Complex of Guam: A Case Report [abstract]. *Mov Disord.* 2017; 32 (suppl 2). <http://www.mdsabstracts.org/abstract/pet-mri-imaging-in-parkinson-dementia-complex-of-guam-a-case-report/>. Accessed October 5, 2018.

ТЕРАПЕВТИЧЕСКИЕ РЕШЕНИЯ

effects, bleeding or infections among the 444 participants in the six studies where these outcomes were reported. Statin treatment did not reduce all-cause mortality compared with placebo or no treatment (OR 1.51, 95% CI 0.60 to 3.81) in the 431 patients enrolled in seven studies. No cases of rhabdomyolysis (the breakdown of muscle fibres resulting in the release of muscle fibre contents (myoglobin))

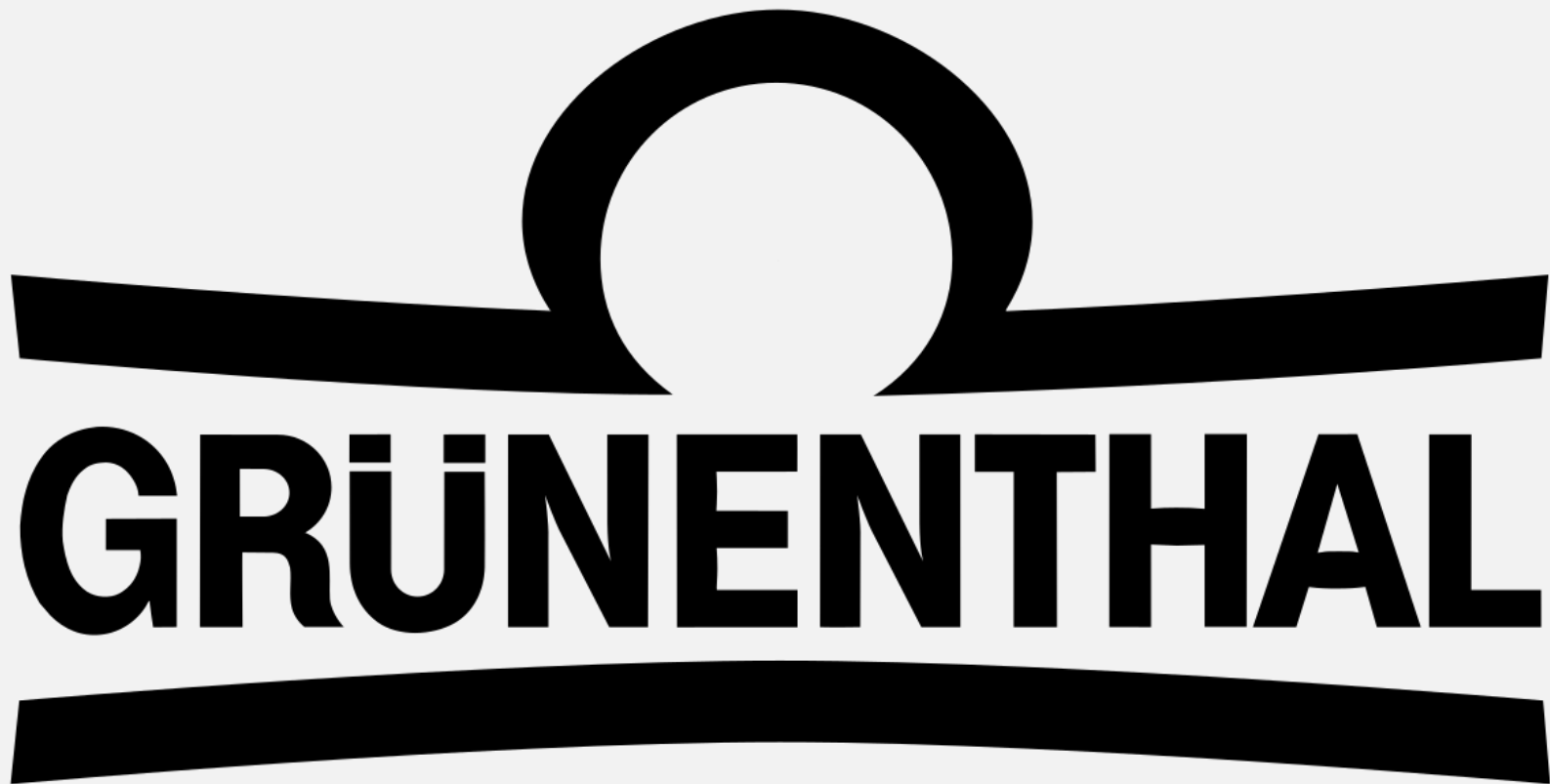


Cochrane
Library

Cochrane Database of Systematic Reviews

Squizzato A, Romualdi E, Dentali F, Ageno W. Statins for acute ischemic stroke. Cochrane Database of Systematic Reviews 2011, Issue 8. Art. No.: CD007551. DOI: 10.1002/14651858.CD007551.pub2.

ТЕРАПЕВТИЧЕСКИЕ РЕШЕНИЯ





Талидомид

Подробнее:

The Schizophrenic Career of a “Monster Drug”

William A. Silverman

Pediatrics Aug 2002, 110 (2) 404-406; **DOI:** 10.1542/peds.110.2.404

ОБУЧЕНИЕ ВРАЧЕЙ И ПАЦИЕНТОВ



УЛУЧШЕНИЕ КАЧЕСТВА ЖИЗНИ



ОЦЕНКА ПРЕДРАСПОЛОЖЕННОСТЕЙ

[Transl Psychiatry](#). 2018 Oct 4;8(1):208. doi: 10.1038/s41398-018-0258-8.

Genome-wide association study identifies glutamate ionotropic receptor *GRIA4* as a risk gene for comorbid nicotine dependence and major depression.

[Zhou H](#)¹, [Cheng Z](#)¹, [Bass N](#)², [Krystal JH](#)^{1,3,4}, [Farrer LA](#)^{5,6,7,8,9}, [Kranzler HR](#)^{10,11}, [Gelernter J](#)^{12,13,14,15}.

[Ecanцерmedicalscience](#). 2018 Aug 29;12:863. doi: 10.3332/ecancer.2018.863. eCollection 2018.

Surgery for *BRCA*, *TP53* and *PALB2*: a literature review.

[Song CV](#)¹, [Teo SH](#)¹, [Taib NA](#)², [Yip CH](#)³.

⊕ Author information

Abstract

INTRODUCTION: The presence of a deleterious mutation, most commonly a *BRCA* mutation, has a tremendous impact on the management of breast cancer. We review the surgical management of *BRCA* mutation carriers, and two other potentially high-risk mutations, *TP53* and *PALB2*.

СУММИРУЯ

- Помощники врача программные/непрограммные
- Диагностические тесты, скрининг, визуализация
- Терапевтические решения
- Обучение медиков и пациентов
- Доступность медицинской помощи
- Снижение рисков, улучшение качества жизни, оценка предрасположенностей
- Снижение расходов

РЕСУРСНЫЙ ЦЕНТР РНИМУ ИМ. Н.И.ПИРОГОВА

1 этап

- Курс обзорных лекций по фундаментальным дисциплинам и методам исследований

2 этап

- Формирование проекта исследования
- Отбор проектов

3 этап

- Обучение методикам работы
- Непосредственное выполнение работы

4 этап

- Представление работы на конференции
- Публикация

ОБЩИЕ ПРАВИЛА ОТБОРА ПРОЕКТОВ

- Реалистичность исполнения
- Законность всех манипуляций
- Актуальность
- Адекватная стоимость
- Соответствие нормам этики
- Новизна
- Соответствие тематике ресурсного центра

СНК БИОХИМИИ И МОЛЕКУЛЯРНОЙ
БИОЛОГИИ РНИМУ ИМ. ПИРОГОВА



[VK.COM/BIOCHEMISTRY_RNIMU](https://vk.com/biochemistry_rnimu)