

# Master Class

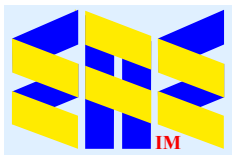
## ‘Cancer Basics’ ‘ОСНОВЫ рака’

Incidence Заболеваемость

Mortality Смертность

Survival Выживание

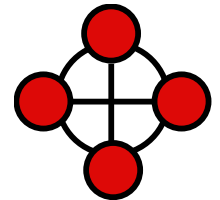
Prevalence Распространенность



**Malcolm A Moore**

**EurAsian Education - Internal**

**Asian Pacific Organization for Cancer Prevention**



# Cancer - an Environmental Disease? Рак – экологическая болезнь?



**Occupation Links**

**Ссылки на профессии**

**Migration Data Данные миграции**

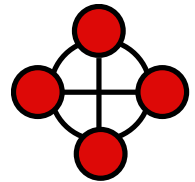
**Variation Разнообразие :**

**Geographic Географическое**

**Histopathological**

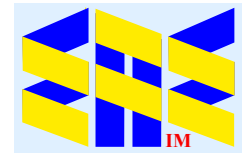
**Гистопатологическое**

**Temporal временное**



**Age Dependence**

**Возрастная зависимость**



**Socioeconomic Links**

**Социально-экономические связи**

# Cancer Control    Борьба с раком

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**Assessment of Burden    Оценка бремени**

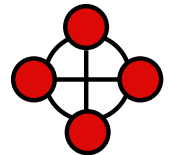
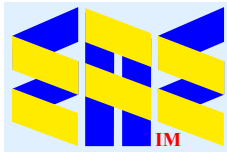
**Risk Factor Determination  
Определение фактора риска**

**Interventions - Primary Prevention  
Вмешательства - Первичная профилактика**

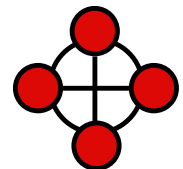
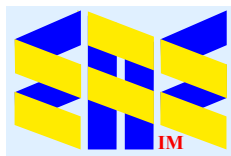
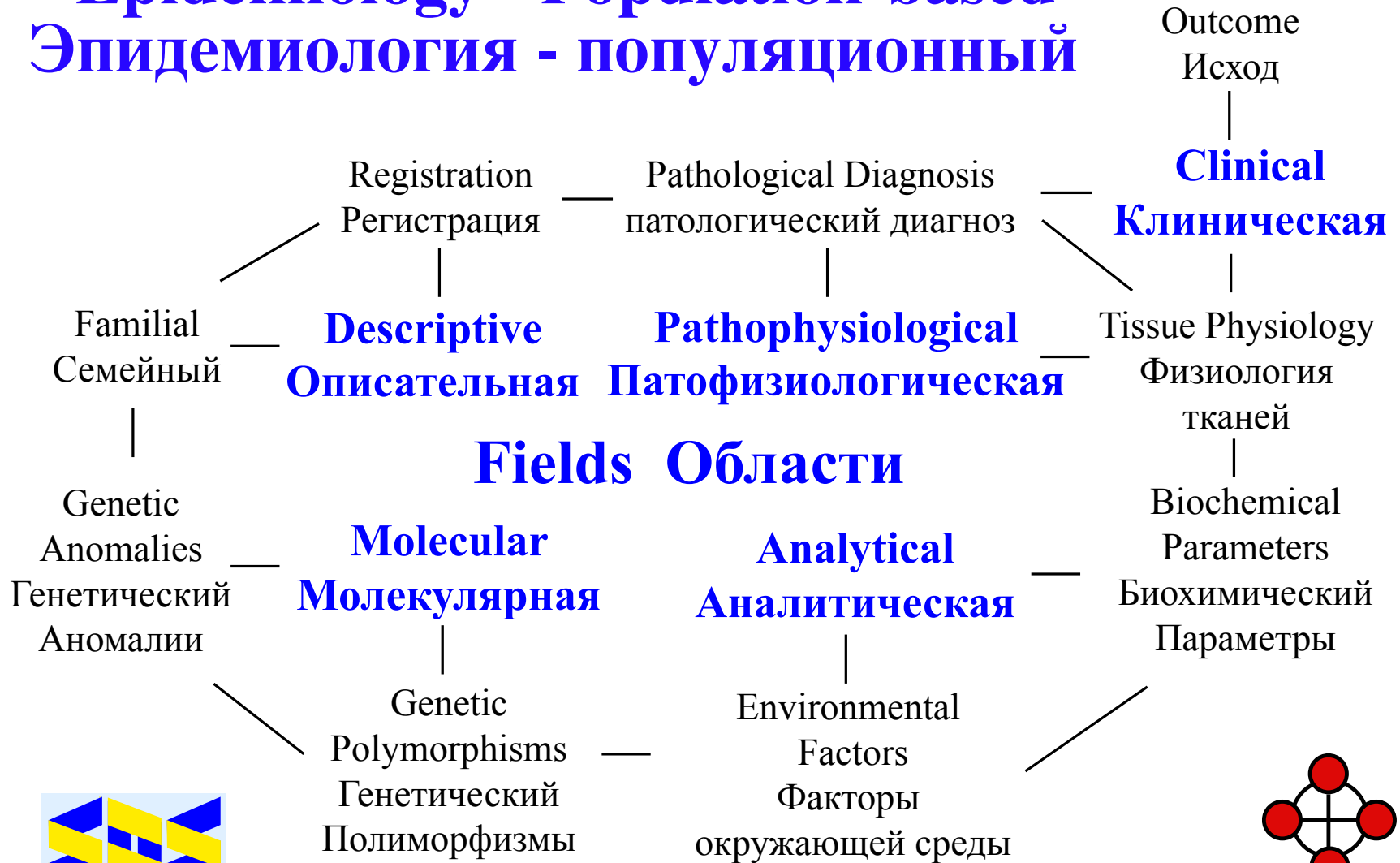
**Interventions - Secondary Prevention  
Вмешательства - вторичная профилактика**

**Interventions - Therapeutic  
Вмешательства - Терапевтические**

**Interventions - Palliative  
Вмешательства - Паллиативные**

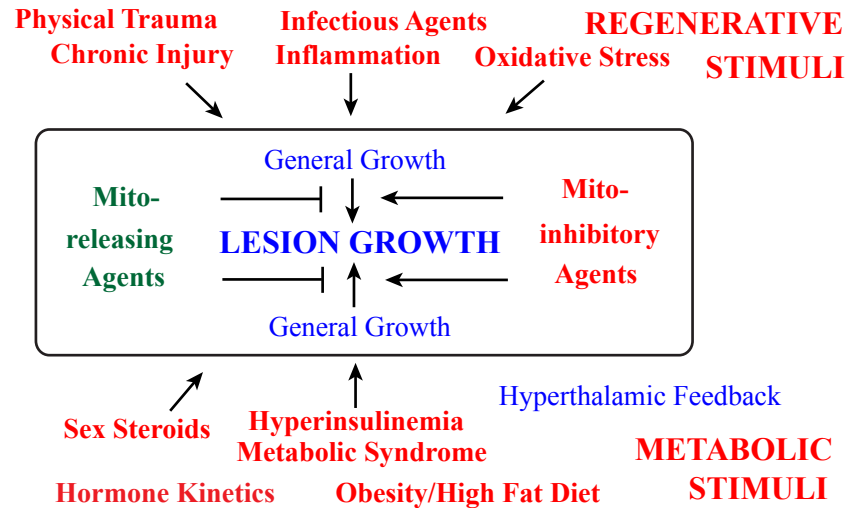
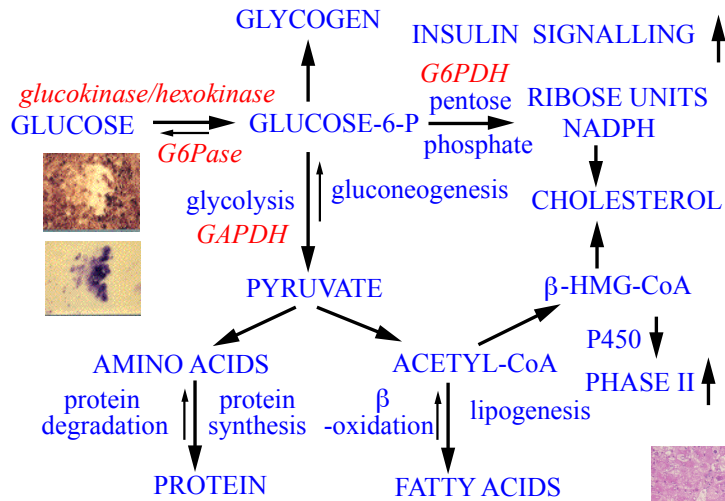


# Epidemiology - Population-based Эпидемиология - популяционный

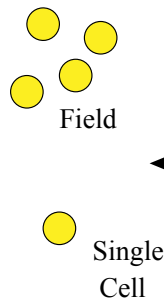


# Preneoplasia

# Пренеоплазия



GC/ЖК  
SC/PK



Benign Preneoplasia/Nodule

Malignant Cancer



Growth  
Advantage

Преимущество  
роста

Initiation

Carcinogen Dependent  
Proliferation Sensitive

Modulation

Carcinogen Independent  
Proliferation Dependent

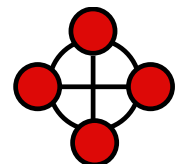
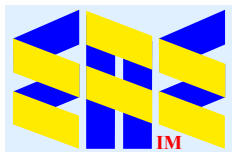
Progression

Carcinogen Independent?  
Proliferation Independent?

Primary Prevention

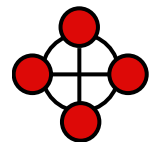
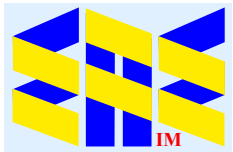
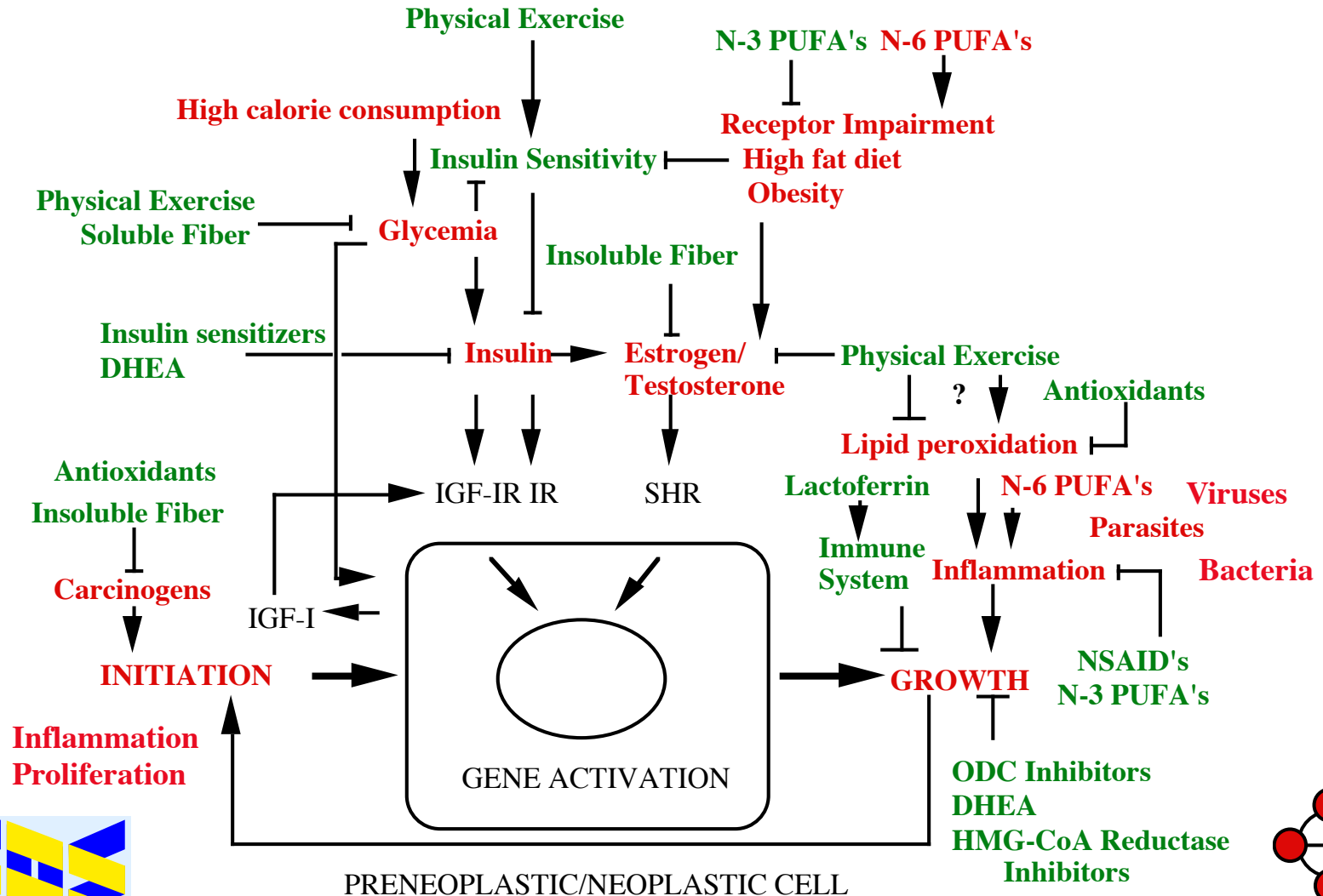
Clinical Intervention

Secondary Prevention



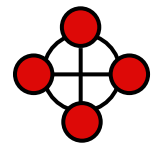
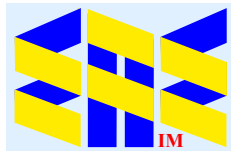
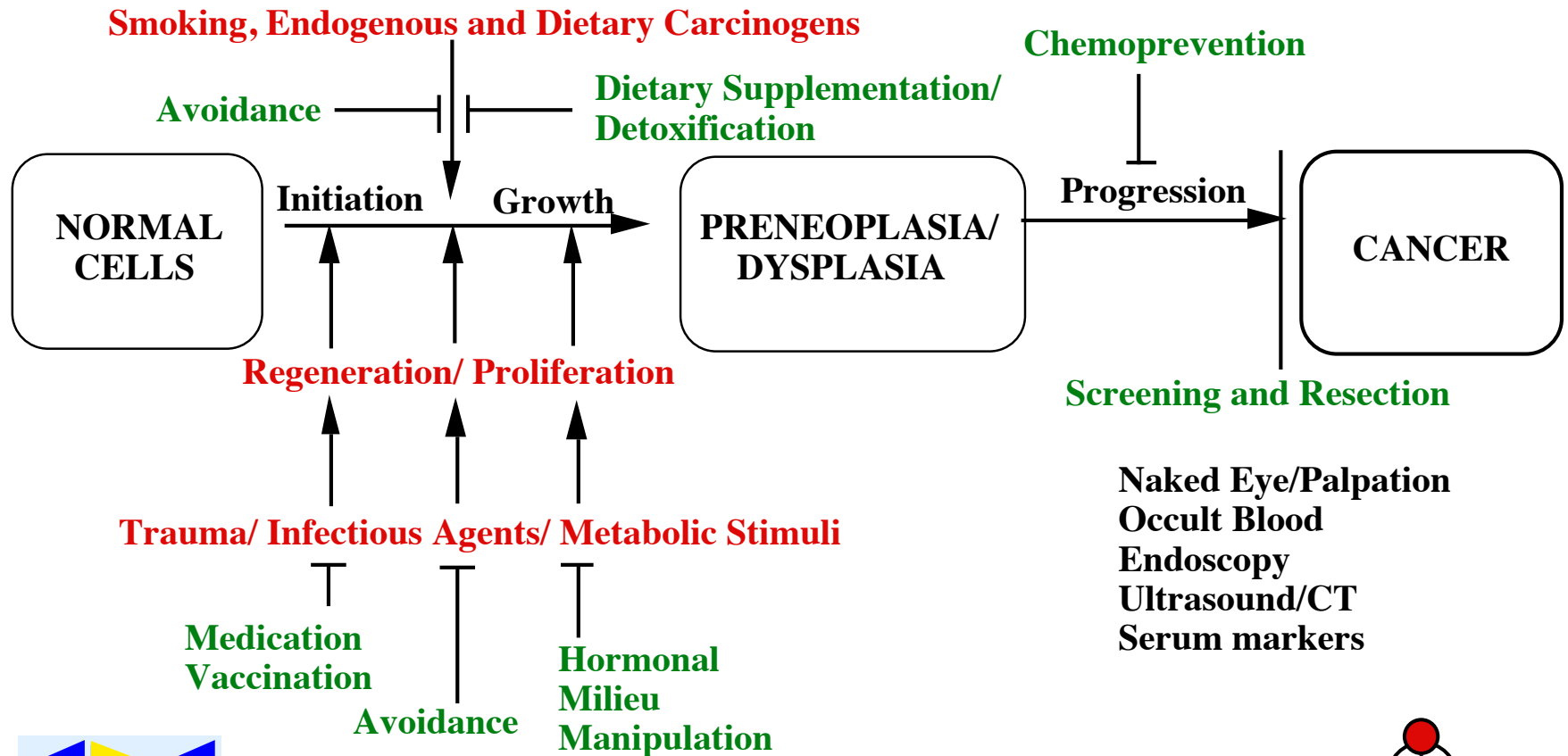
# Risk Factor Identification

# Идентификация факторов риска



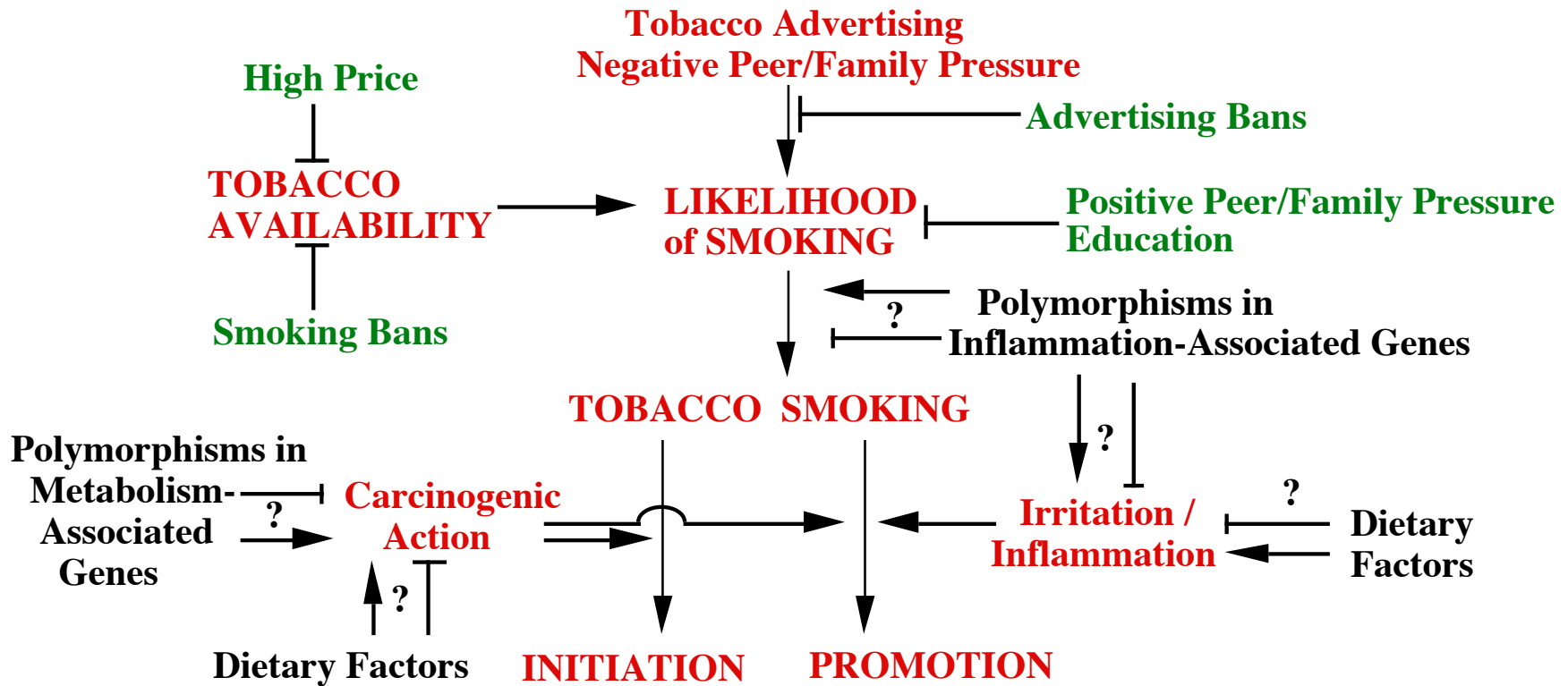
# Primary and Secondary Prevention

## Первичная и вторичная профилактика

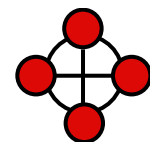
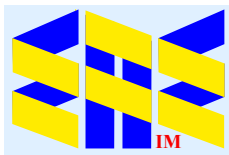


# Social Interventions - Smoking

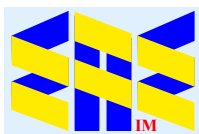
## Социальные вмешательства - курение



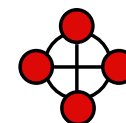
Government Action  
 Действия правительства







# Clinical Intervention



## Клиническое вмешательство

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Diet  
Exercise  
Supplements

Cut-off  
Complications  
Zone sizes

Methodology  
Number

Decision-making  
QOL  
Timing

Alleviation  
QOL  
Salvage

### Risk

### Screening

### Biopsy

### Treatment

### Outcome

Body Size  
Hormones  
Morphology

PSA/PSAD/DRE  
Free PSA/Ratios  
Adjunct Therapy

HGPIN  
ASAP  
PCa  
Stage  
Grade

Hormonal  
Surgery  
Radiotherapy  
Chemotherapy

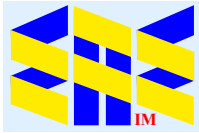
**Survival**  
Incontinence  
Impotence  
Erectile  
Dysfunction  
Psychological

**Hospital-based Comprehensive Case-control Studies**

**Комплексные исследования «случай-контроль» на базе больницы**

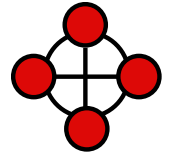
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# Control Costs Затраты на контроль

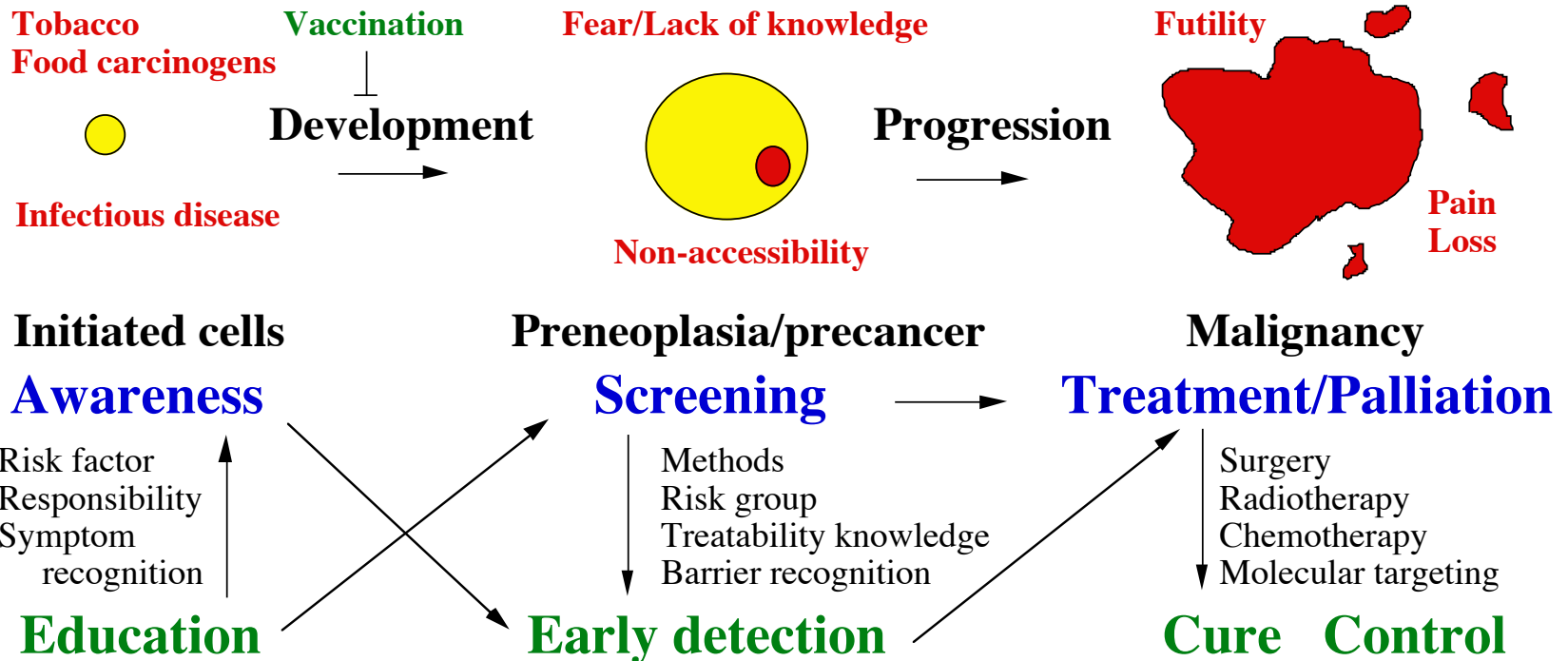


**Individual Person**  
отдельный человек

**Society**  
Общество



**Primary Prevention      Secondary Prevention      Clinical Therapy**



Cultural sensitivity / Efficacy / Physical costs / Emotional support / Effective financial support / Medical costs

# Epidemiological Research - What?

## Эпидемиологические исследования - Что?

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### Observational/Analytical

Cross-sectional/Routine-data

Case-Control

Cohort/Nested Case-Control

Clinical Prospective

Clinical Retrospective

### Intervention:

Educational

Clinical (Randomised) Protocols

Field Trials

### Reviews and Meta-Analyses:

Population Attributable Fractions

Principal Component Analysis

Risk Group Assessment

### Наблюдательный/Аналитический

Поперечные/рутинные данные

Случай-контроль

Когортный/вложенный СК

Клиническая перспектива

Клиническая ретроспектива

### Вмешательство:

Образовательный

Клинические протоколы

Полевые испытания

### Обзоры и метаанализы:

Атрибутивные населения

Анализ главных компонентов

Оценка группы риска

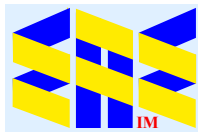
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*ecological fallacy?*

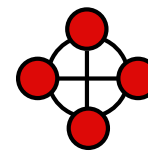
*экологическое заблуждение?*

# Epidemiological Research - Where?

## Эпидемиологические исследования - Где?



RO, regional office; CC, collaborating centre



# Epidemiological Research - Who?

## Эпидемиологические исследования - Кто?

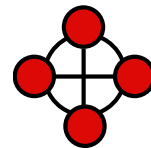
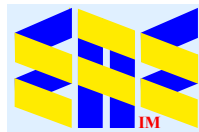
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**People Power**

**Народная власть**



**Thank you!** —————



————— **Спасибо!**