

Genito-urinary Cancer: Magnitude of the Problem in Africa

Inas Elattar

Professor of Biostatistics
Department of Biostatistics & Epidemiology
NCI, Egypt

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Outline

- Statistics for Male Genital Cancer
- Statistics for Female Genital Cancer
- Statistics for Urinary Tract Cancer
- Statistics for National Cancer Institute

Male Genital Worldwide

- Prostate cancer is the 3rd most common cancer site for males after lung and stomach cancer. It accounts for 10% of all cancer worldwide.
- Testicular cancer is not common. It constitutes nearly 1% of all cancer in males.

World Estimated New Male Genital Cancer Cases, and Age-adjusted Incidence Rates

Cancer site	Number of new cases	Age-adjusted incidence rate
Prostate	542,990	21.2
Testis	49,302	1.6

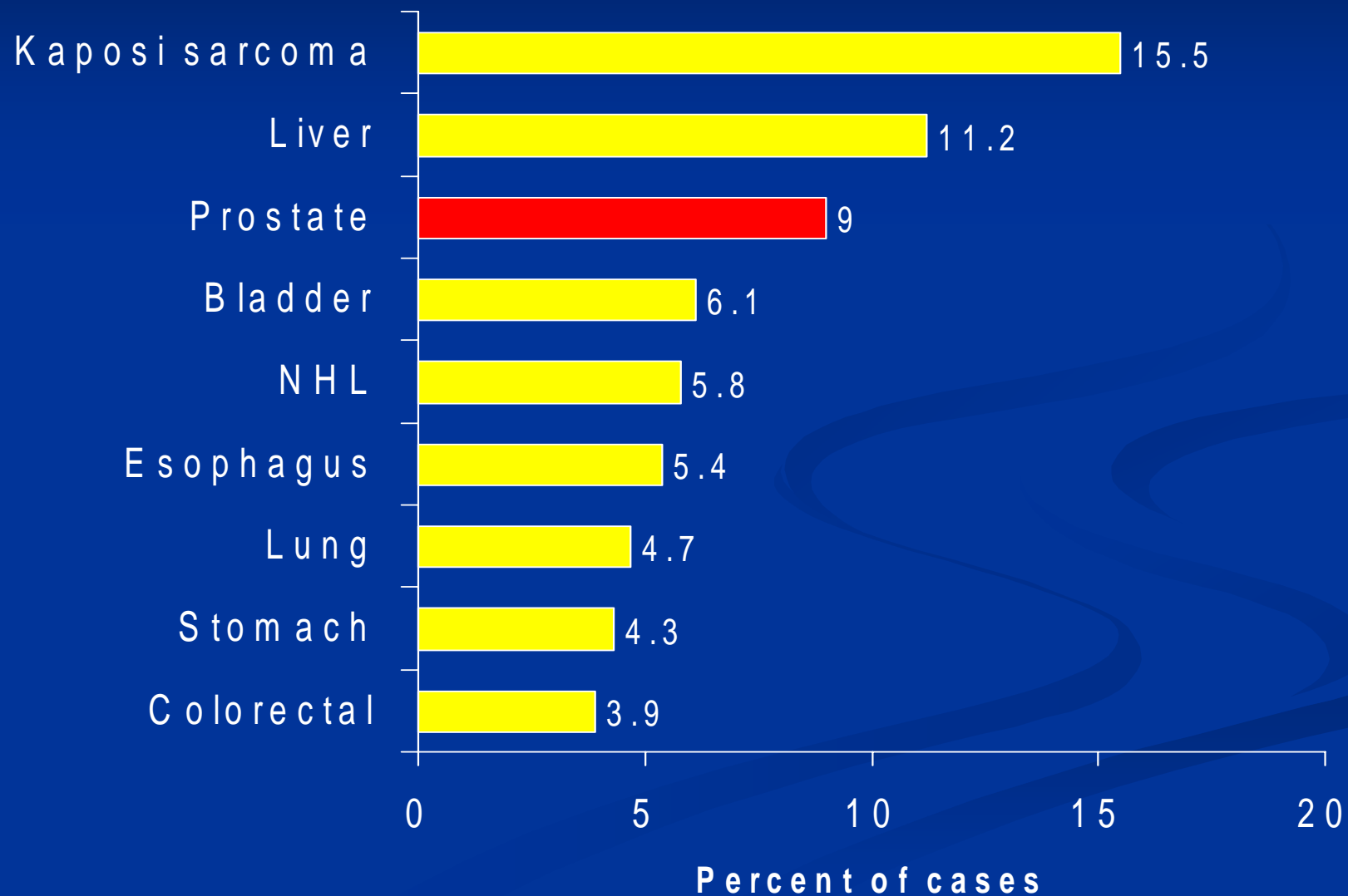
Incidence rates/100,000

World Age-adjusted Incidence Rates of Male Genital Cancer

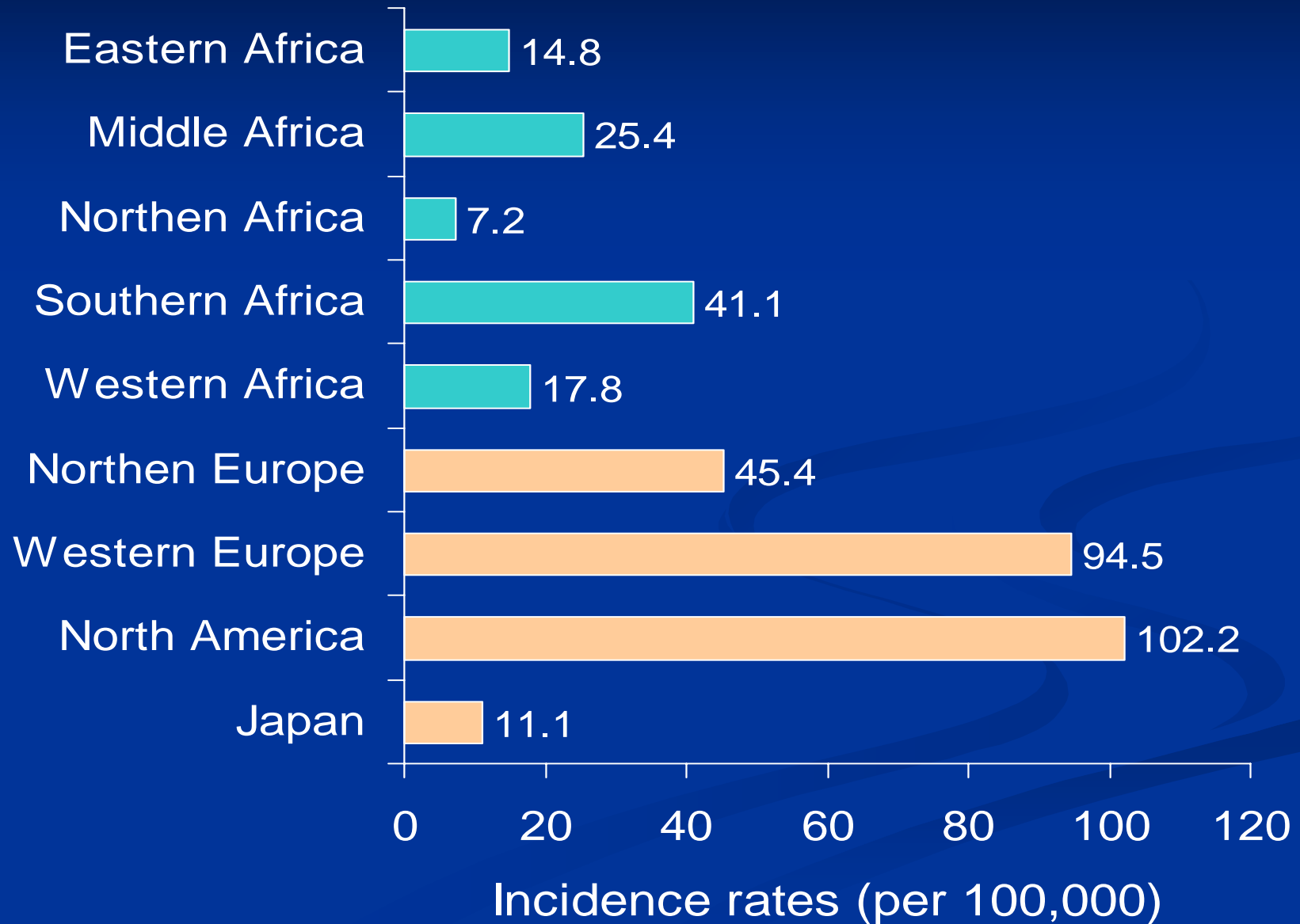
	Prostate	Testis
World	21.2	1.6
More developed countries	46.7	5.0
Less developed countries	7.7	0.8

Incidence rates/100,000

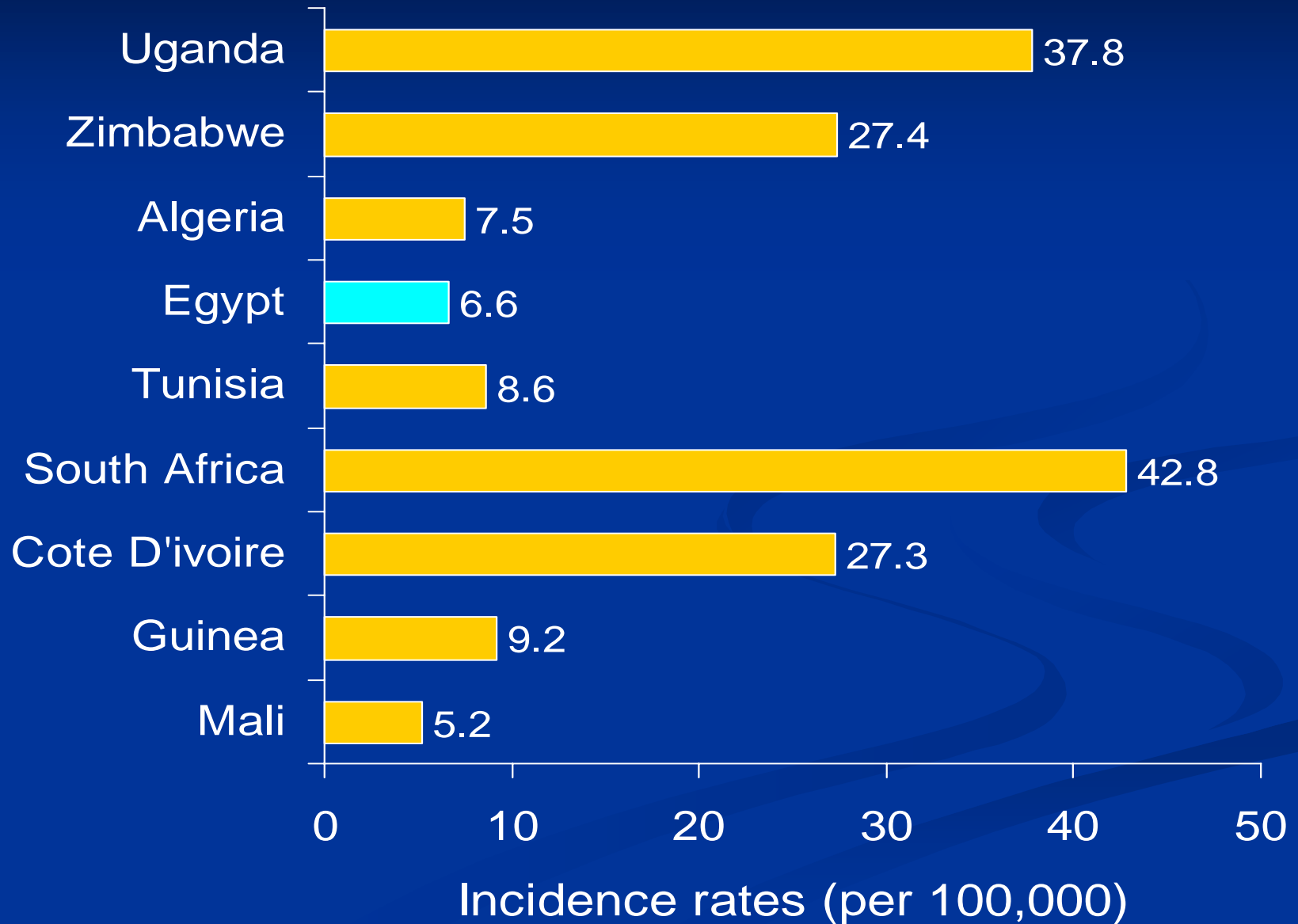
Frequency of Most Common Sites in Men - Africa 2000



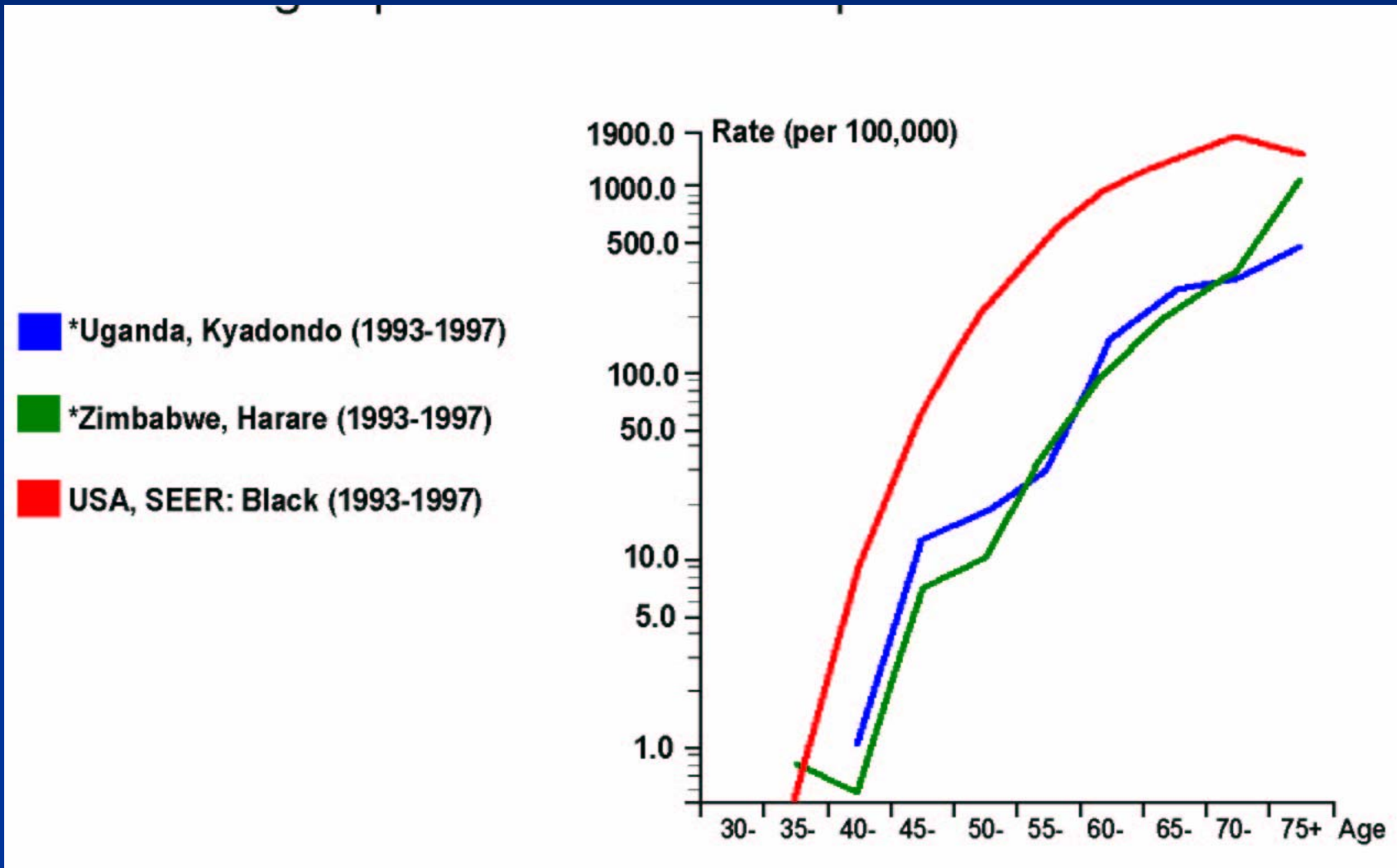
Age-adjusted Incidence Rates for Prostate Cancer by Region



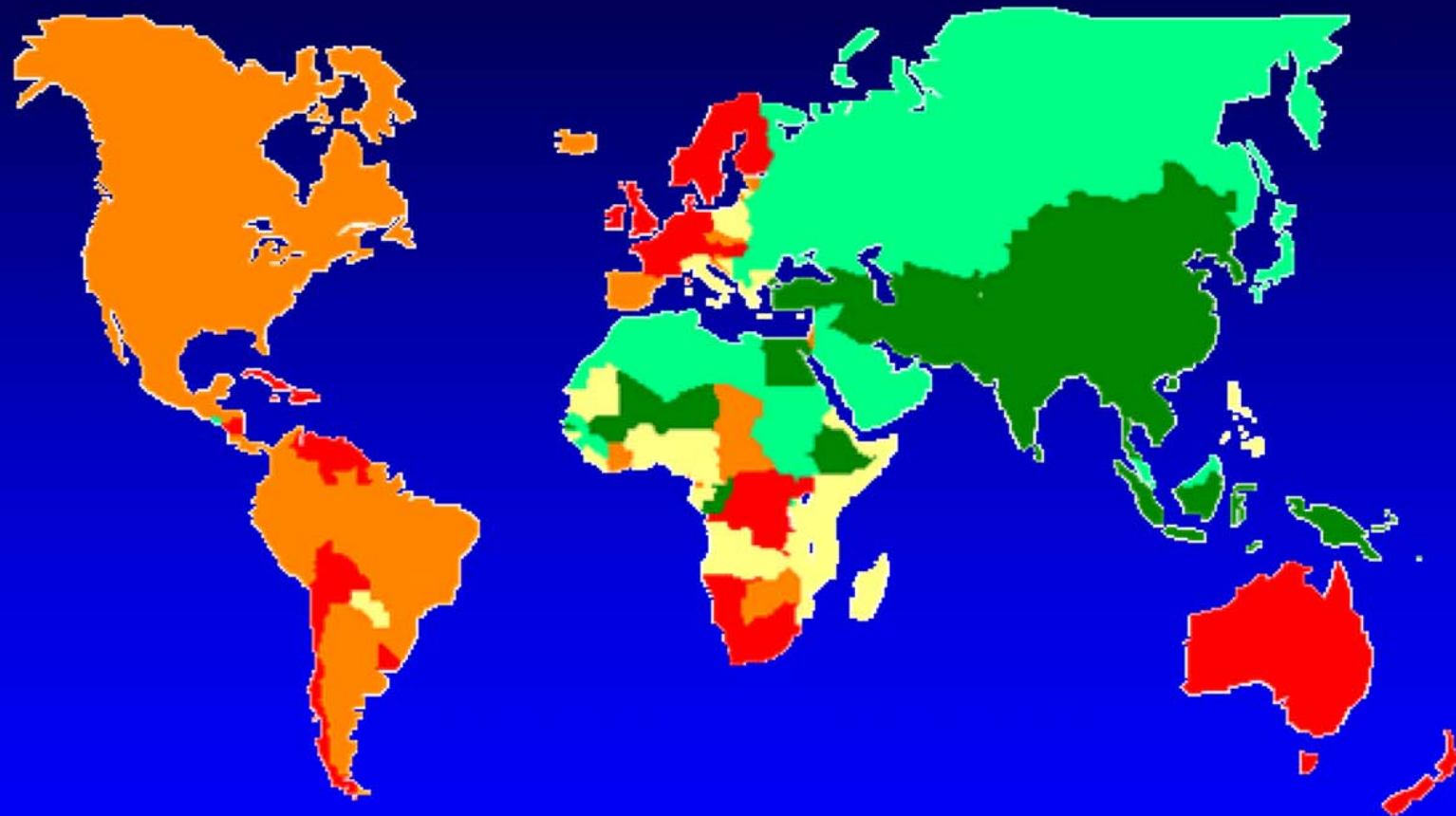
Age-adjusted Incidence Rates for Prostate Cancer in Africa



Age-specific Incidence Rates for Prostate Cancer in Africa

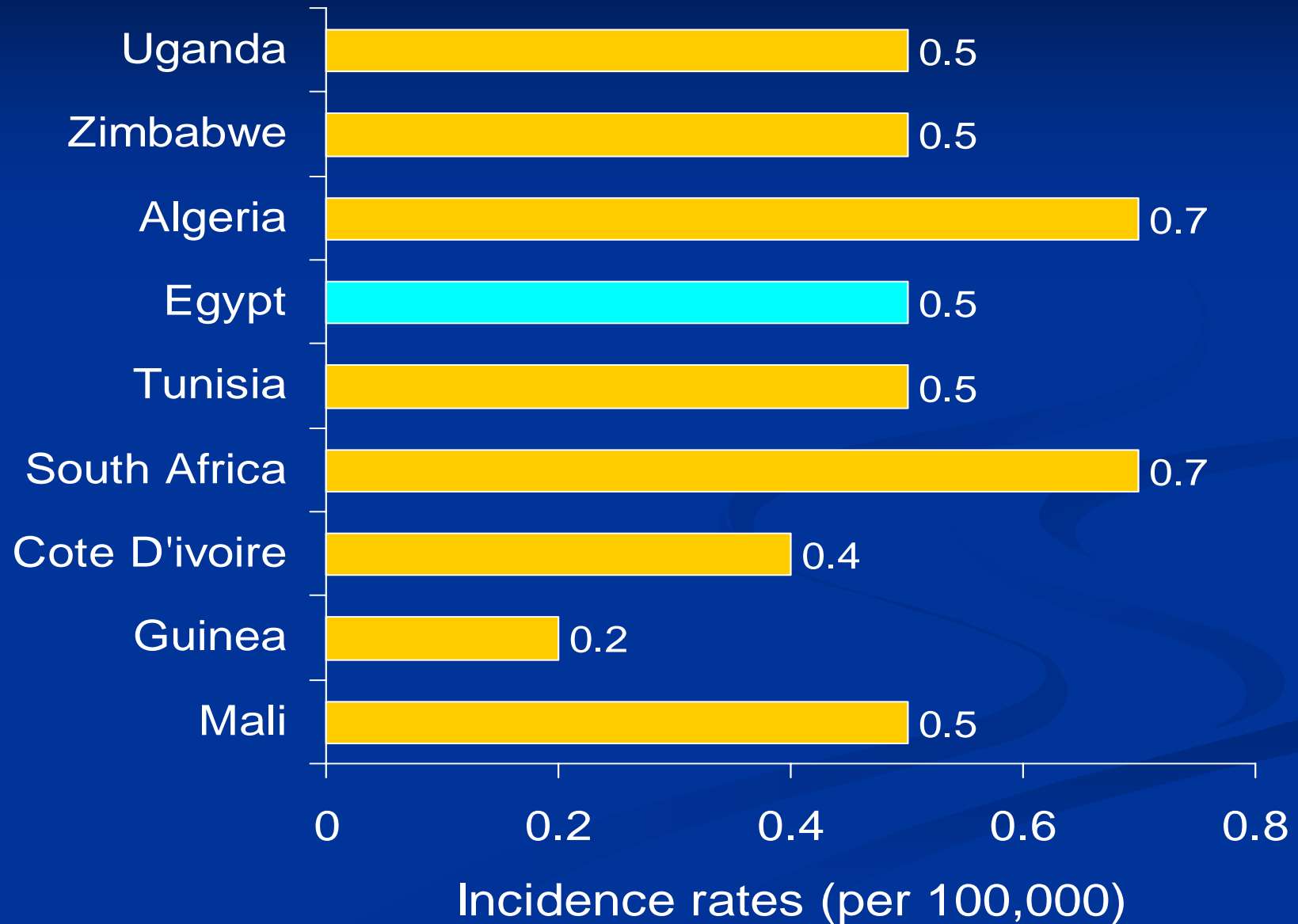


Mortality from Prostate cancer: ASR (World) (All ages)



■ < 4.3 ■ < 8.6 ■ < 13.0 ■ < 17.9 ■ < 55.3

Age-adjusted Incidence Rates for Testicular Cancer in Africa



Female Genital Worldwide

- Cervical cancer is the 2nd most common cancer site for females after breast cancer. It accounts for 10% of all cancer worldwide.
- Ovarian cancer is the 6th most common cancer site for females . It constitutes 4% of all cancer in females.
- Uterine cancer is the 7th most common cancer site for females . It constitutes nearly 4% of all cancer in females.

World Estimated New Female Genital Cancer Cases, and Age-adjusted Incidence Rates

Cancer site	Number of new cases	Age-adjusted incidence rate
Cervix	470,606	16.1
Ovary	192,378	6.4
Uterus	188,952	6.3

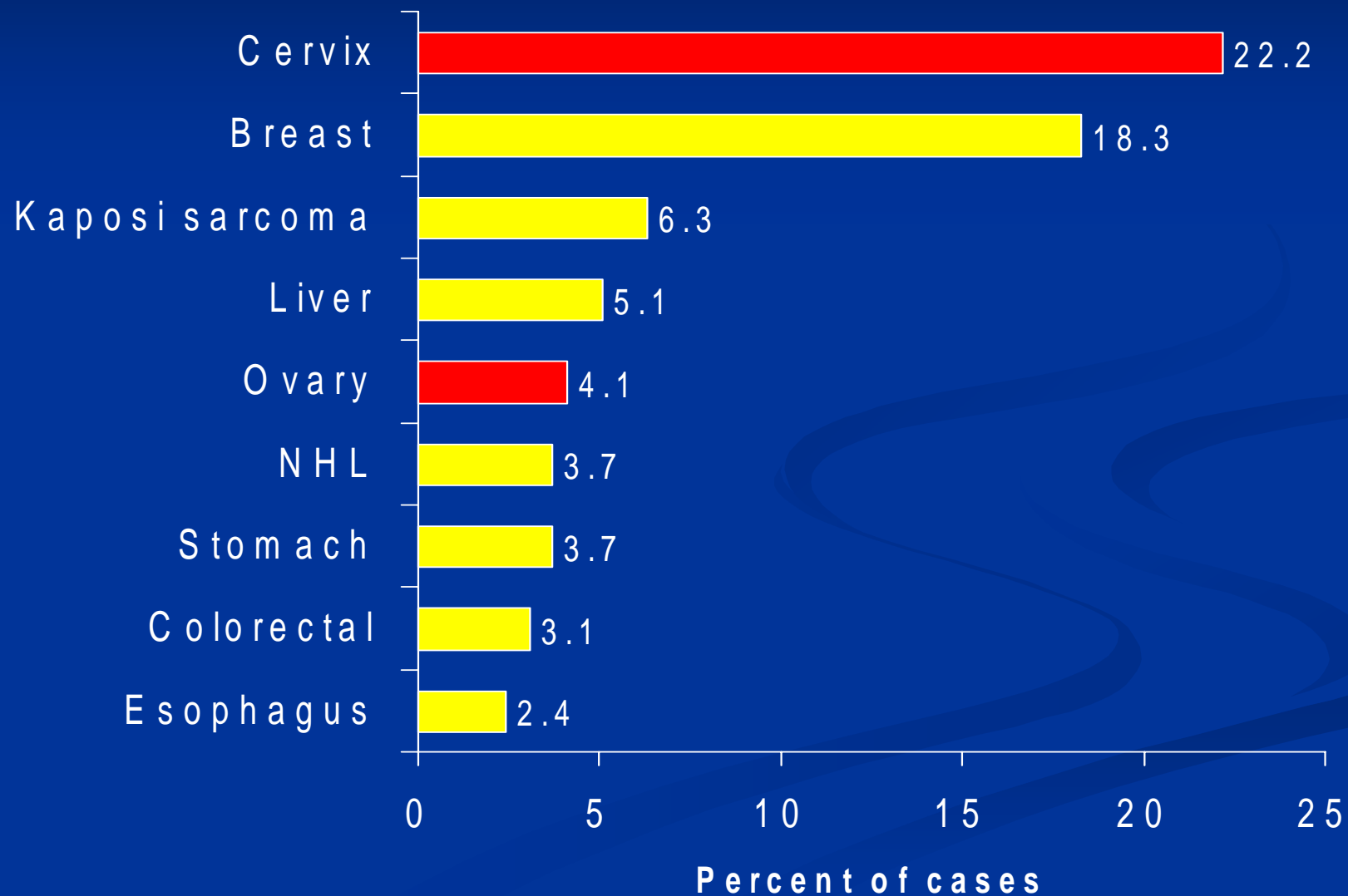
Incidence rates/100,000

World Age-adjusted Incidence Rates Female Genital Cancer

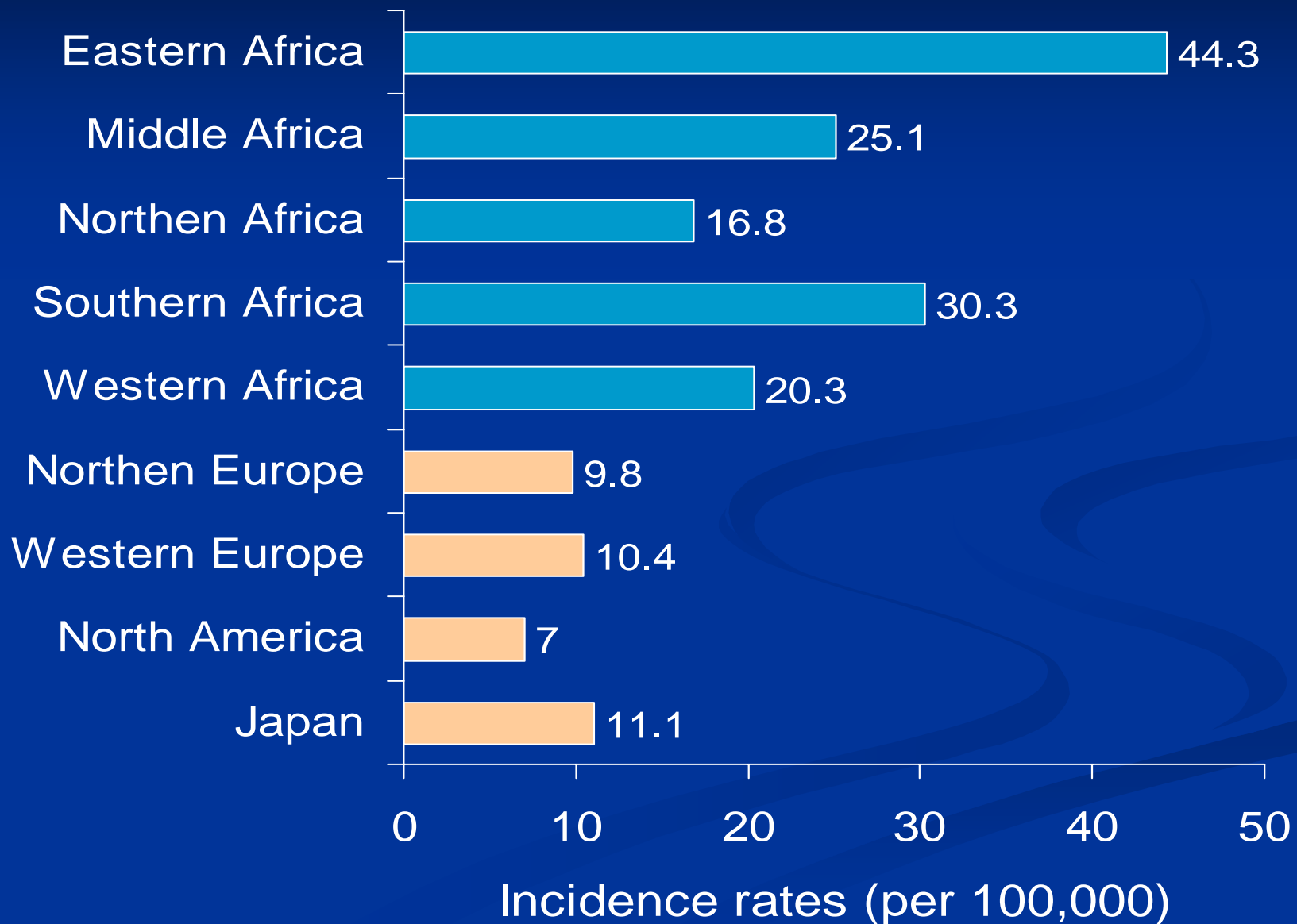
	Cervix	Ovary	Uterus
World	16.1	6.3	6.4
More developed countries	11.4	9.9	11.3
Less developed countries	18.7	4.9	3.9

Incidence rates/100,000

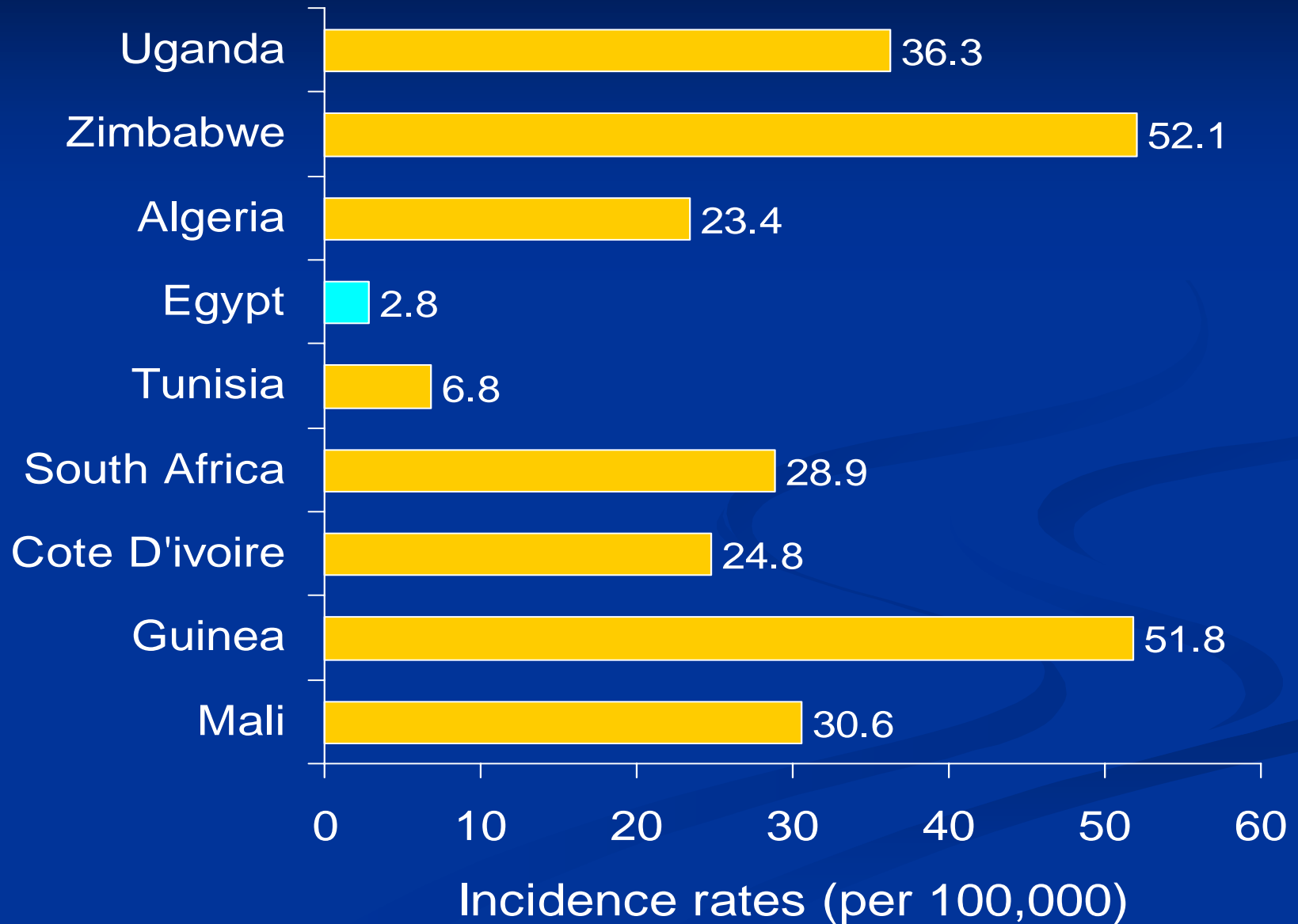
Frequency of Most Common Sites in Women Africa 2000



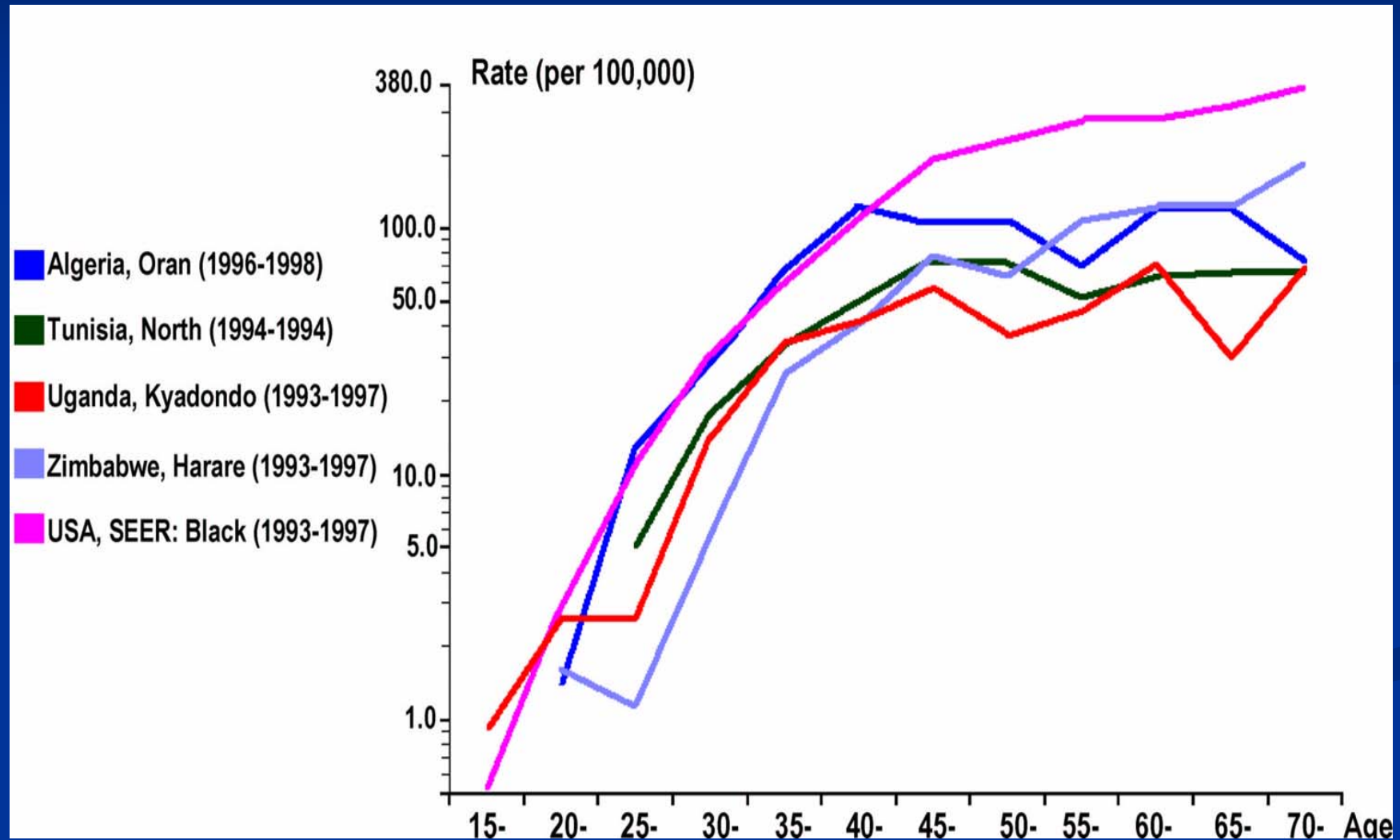
Age-adjusted Incidence Rates for Cervical Cancer by Region



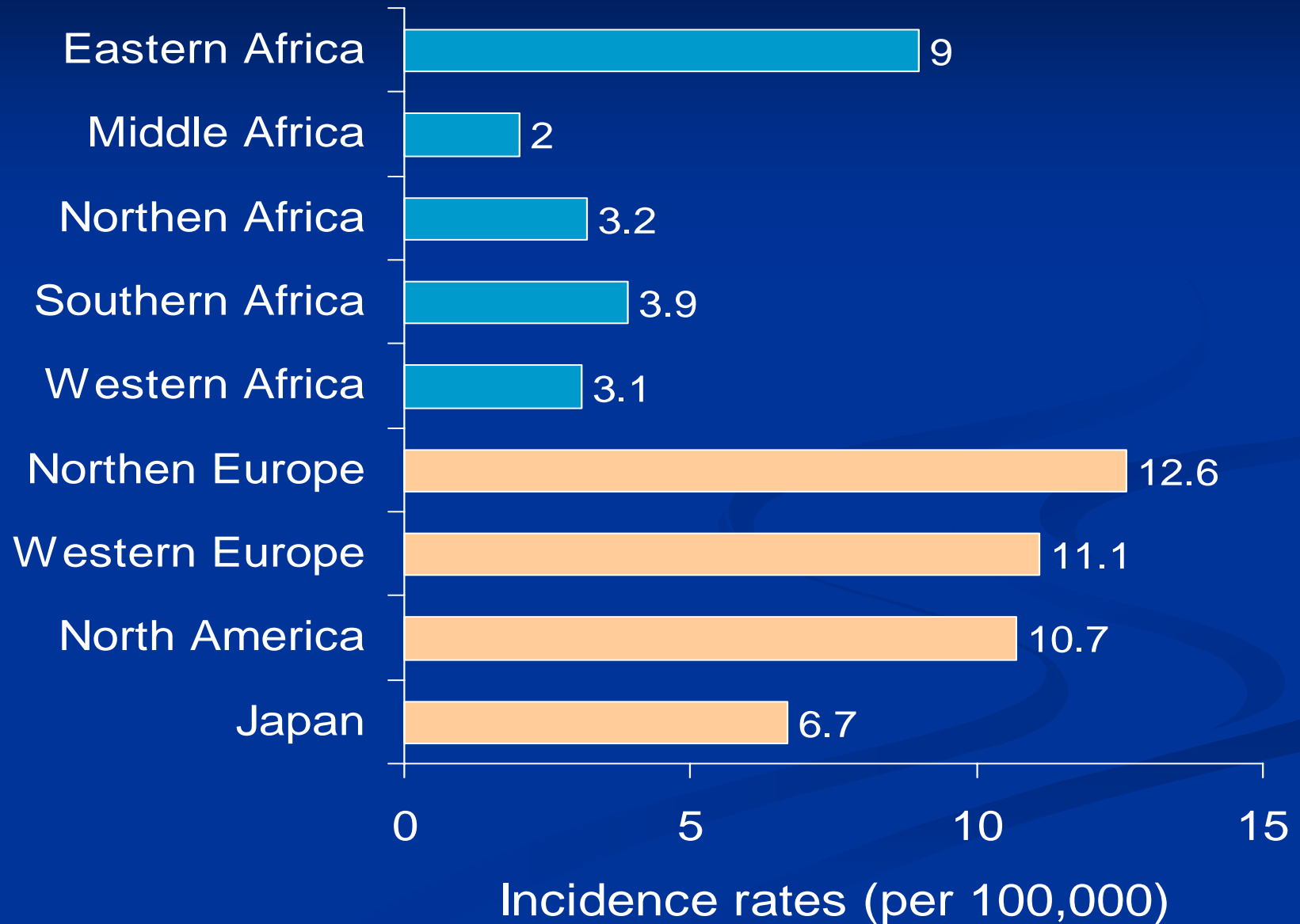
Age-adjusted Incidence Rates for Cervical Cancer in Africa



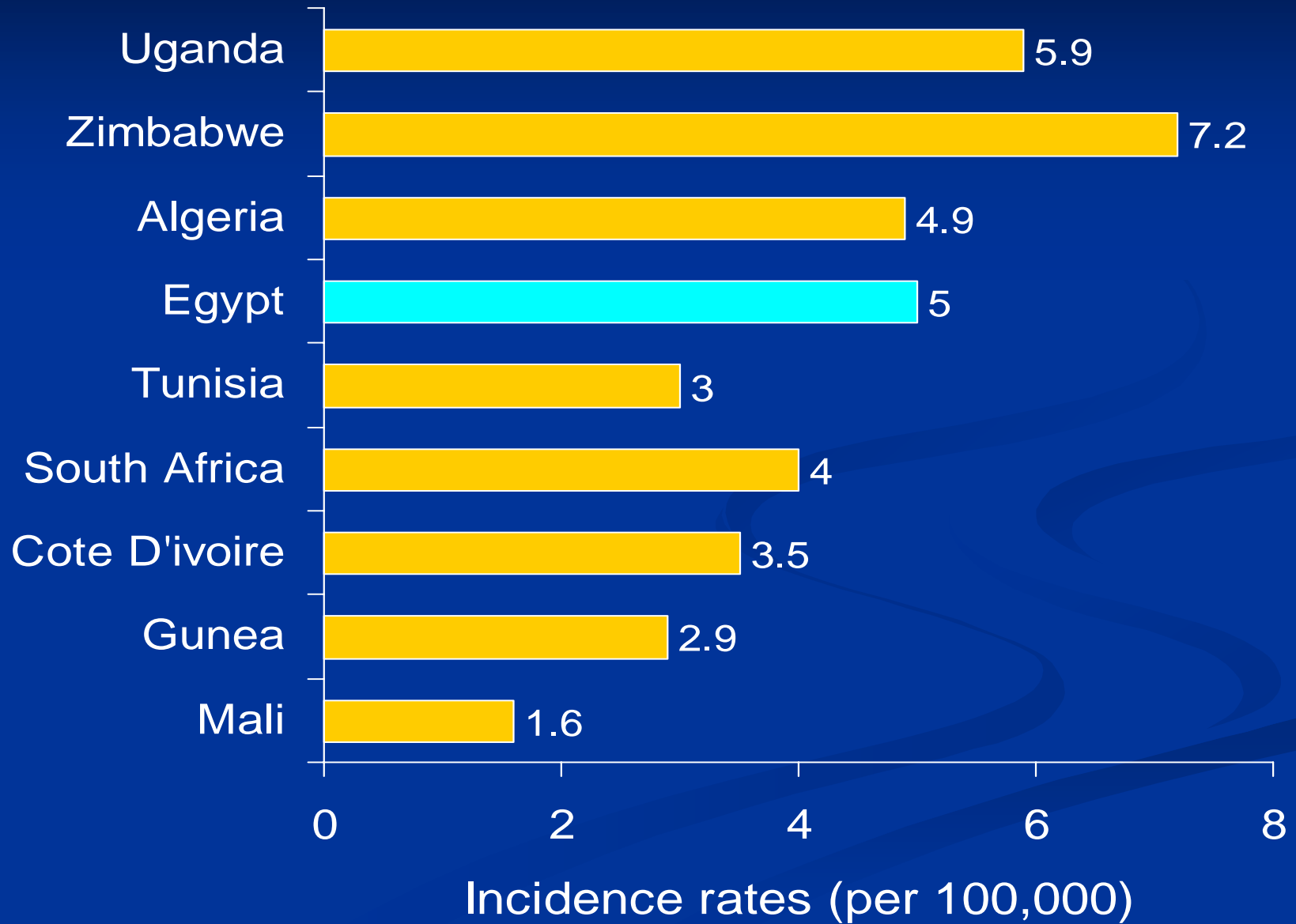
Age-specific Incidence Rates for Cervical Cancer in Africa



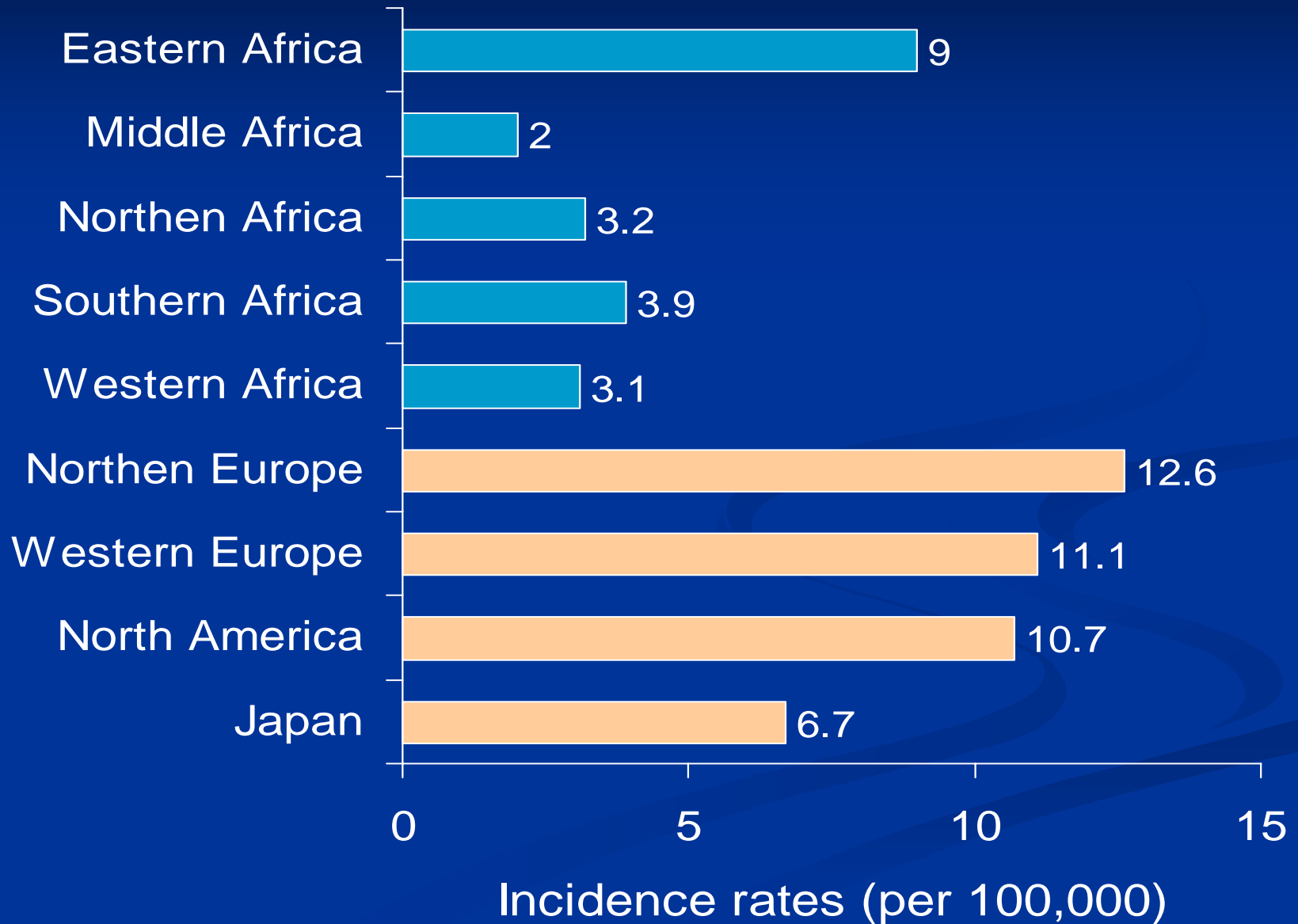
Age-adjusted Incidence Rates for Ovarian Cancer by Region



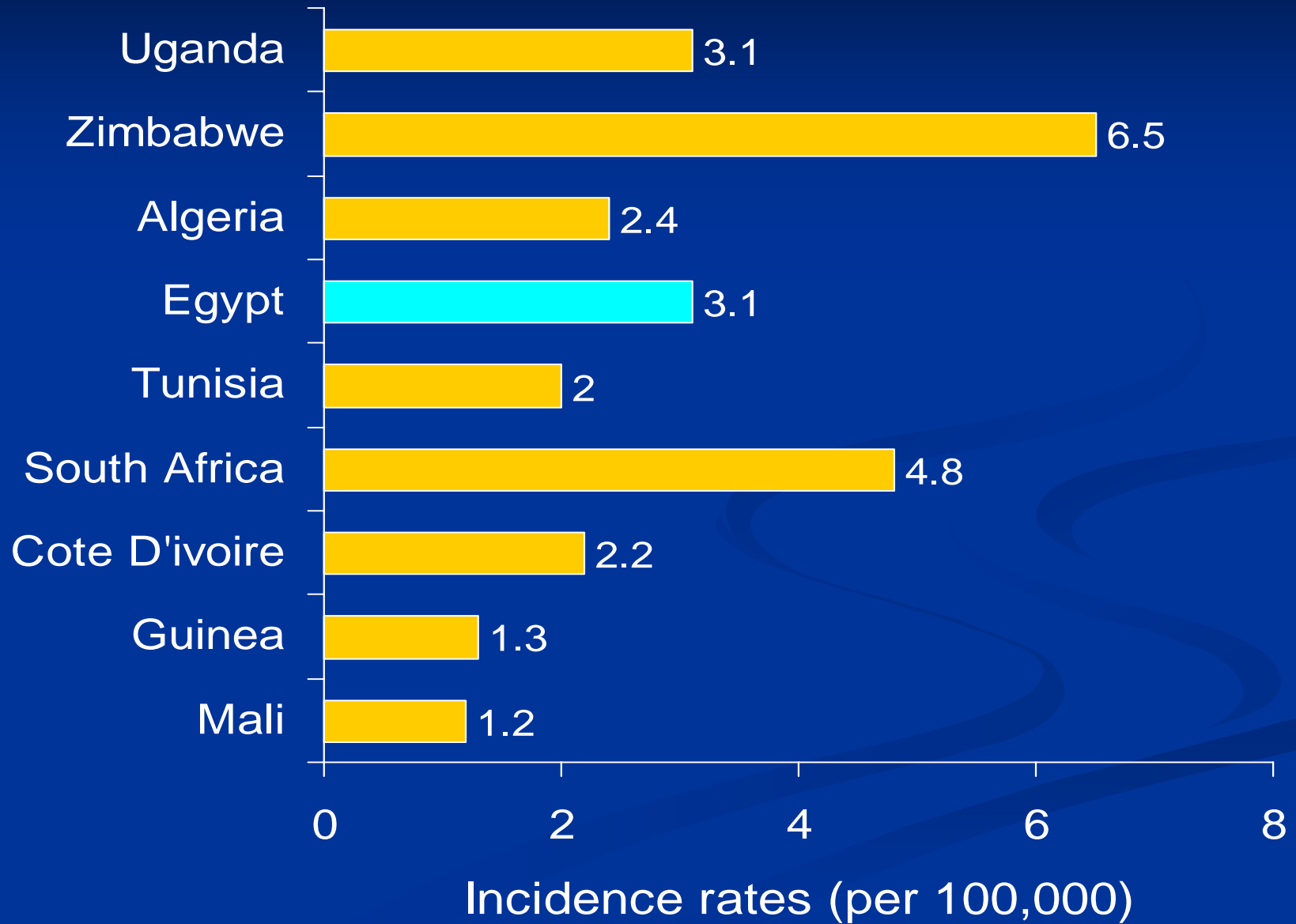
Age-adjusted Incidence Rates for Ovarian Cancer in Africa



Age-adjusted Incidence Rates for Uterine Cancer by Region



Age-adjusted Incidence Rates for Uterine Cancer in Africa



Urinary tract Worldwide

- Urinary bladder cancer is the 9th most frequent it accounts for 3.3% of the newly diagnosed cancer cases and 2.1% of cancer deaths. Men get bladder cancer at a rate 2 to 3 times greater than women.
- Cancer of the kidney is not very common, it constitutes 1.9% of all cancer. Men have a slightly higher incidence than women (male to female ratio 1.6)

World Estimated New Urinary Tract Cancer Cases, and Age-adjusted Incidence Rates

	Males		Females	
Cancer	Number	ASR	Number	ASR
Bladder	259,771	10.0	70,024	2.4
Kidney	118,255	4.5	70,822	2.3

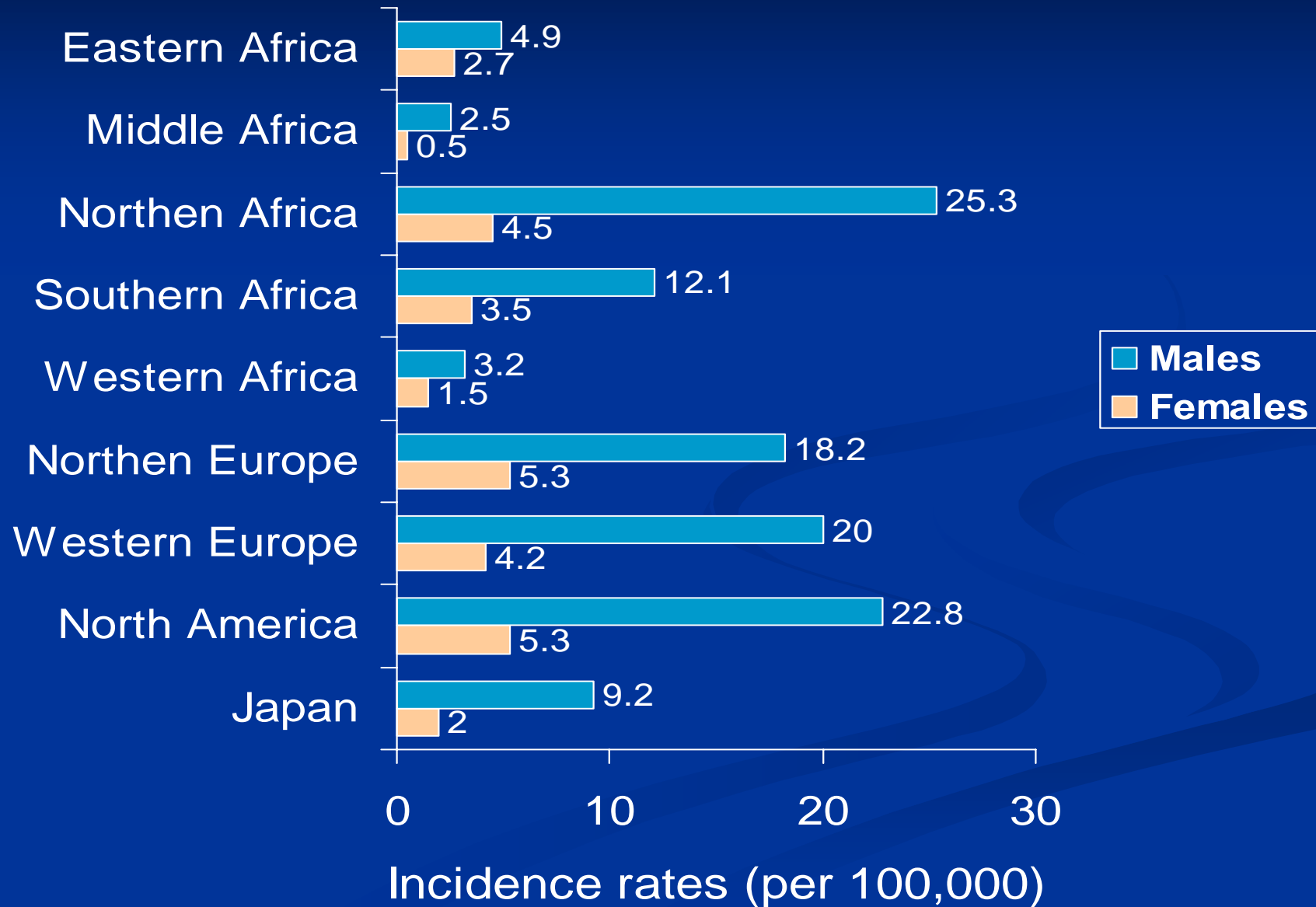
Incidence rates/100,000

World Age-adjusted Incidence Rates Urinary Tract Cancer

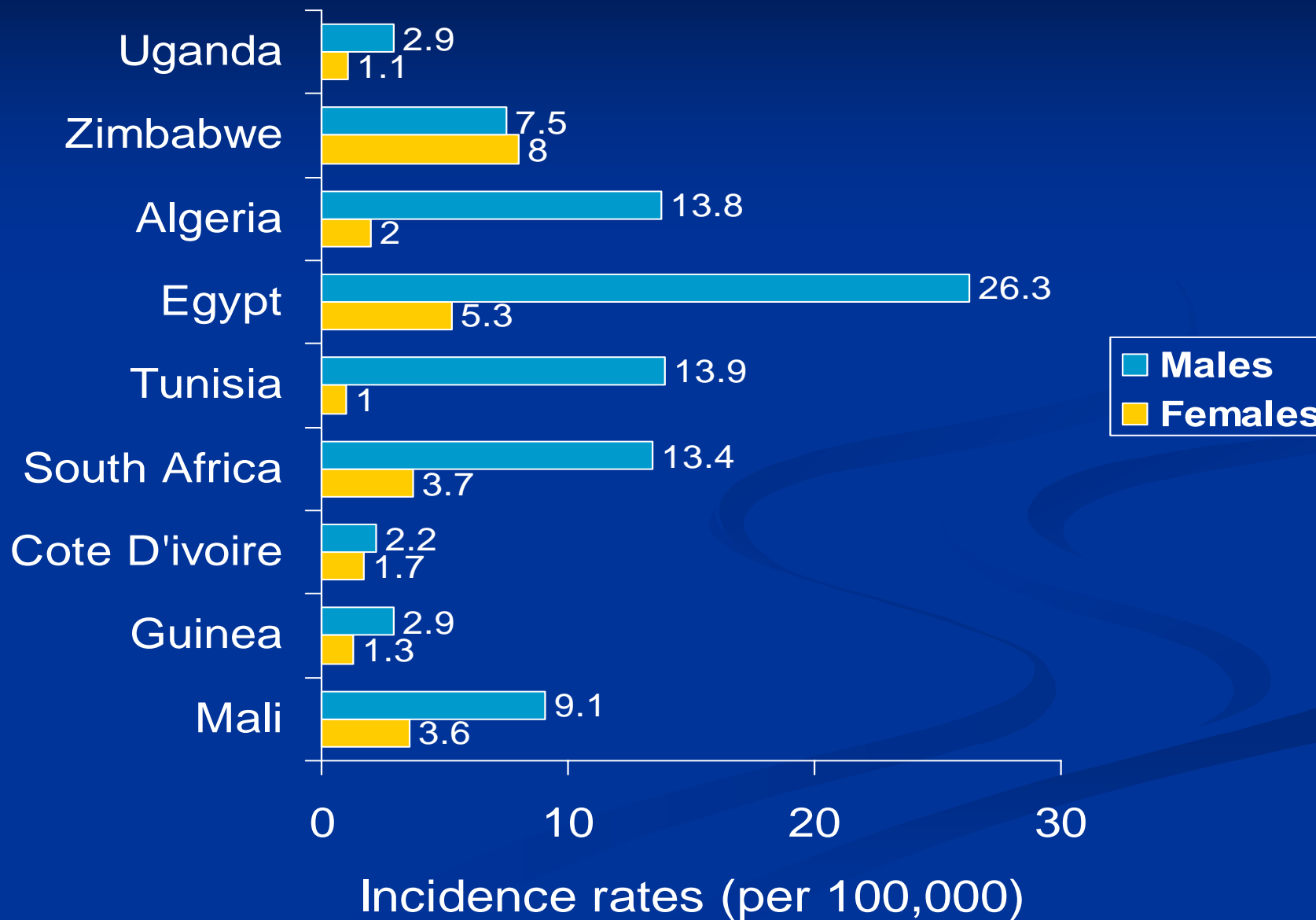
	Bladder		Kidney	
	Males	Females	Males	Females
World	10.0	2.4	4.5	2.3
More developed countries	18.9	7.9	9.8	7.9
Less developed countries	5.5	1.5	2.1	1.1

Incidence rates/100,000

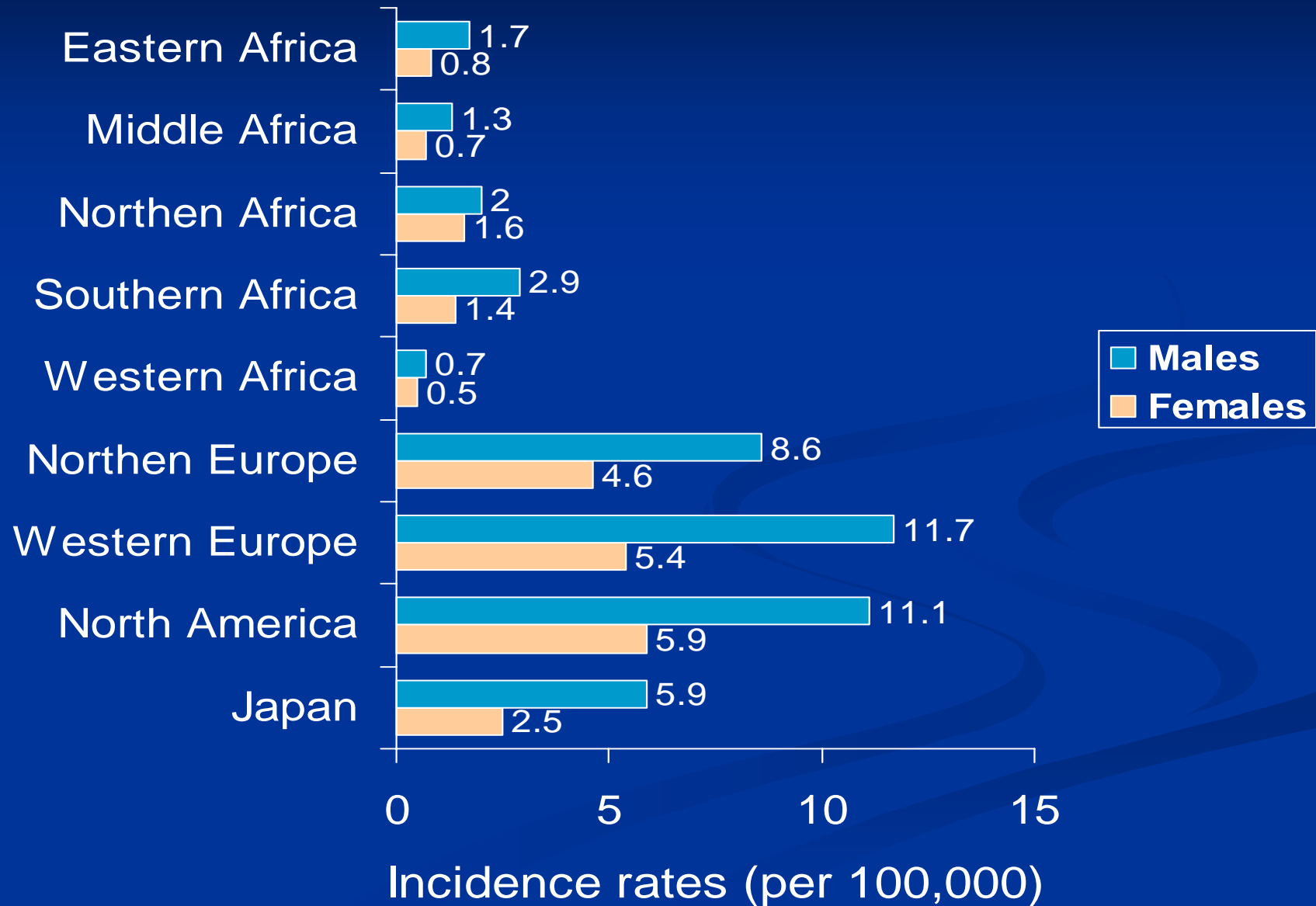
Age-adjusted Incidence Rates for Bladder Cancer by Region



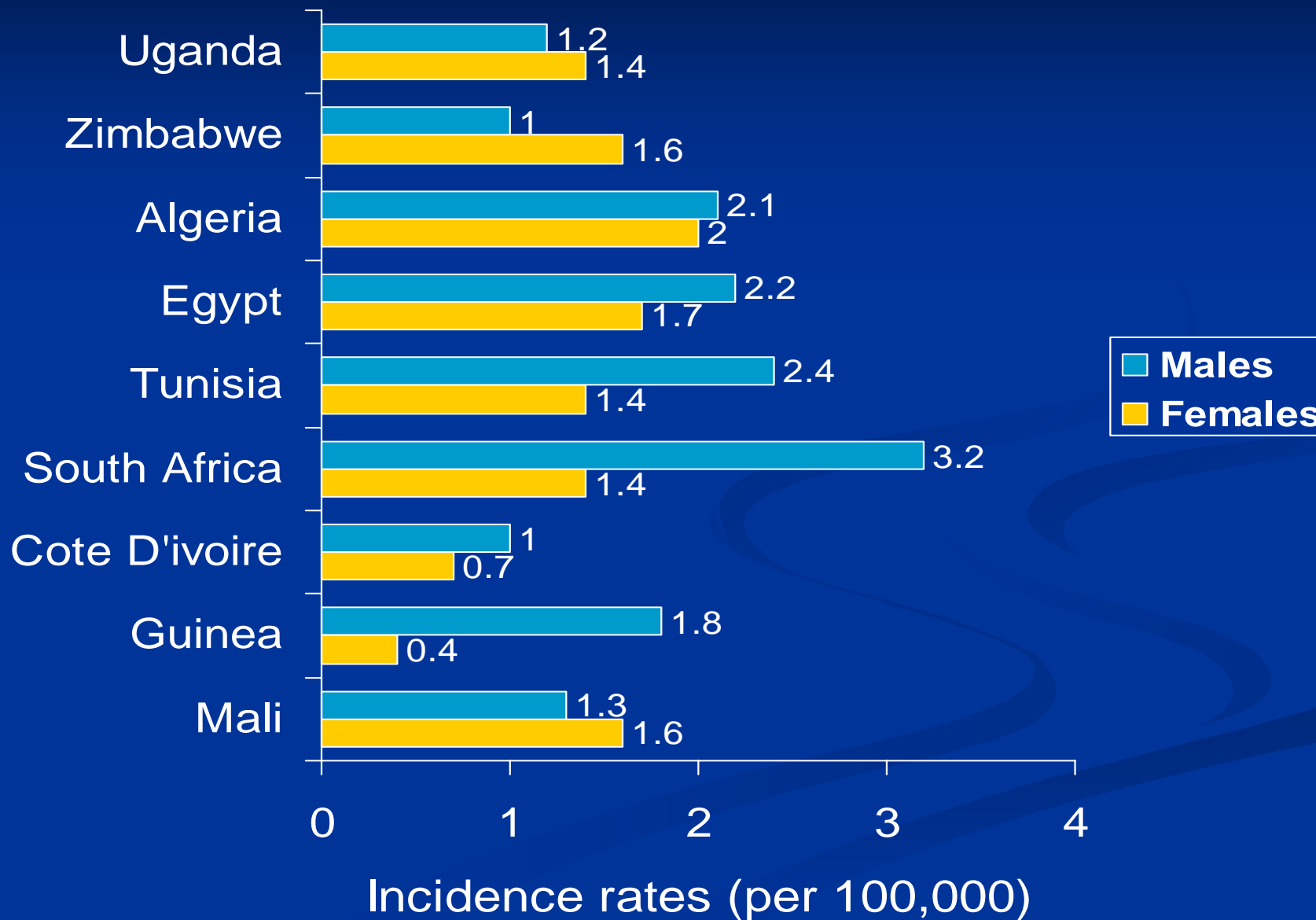
Age-adjusted Incidence Rates for Bladder Cancer in Africa



Age-adjusted Incidence Rates for Kidney Cancer by Region

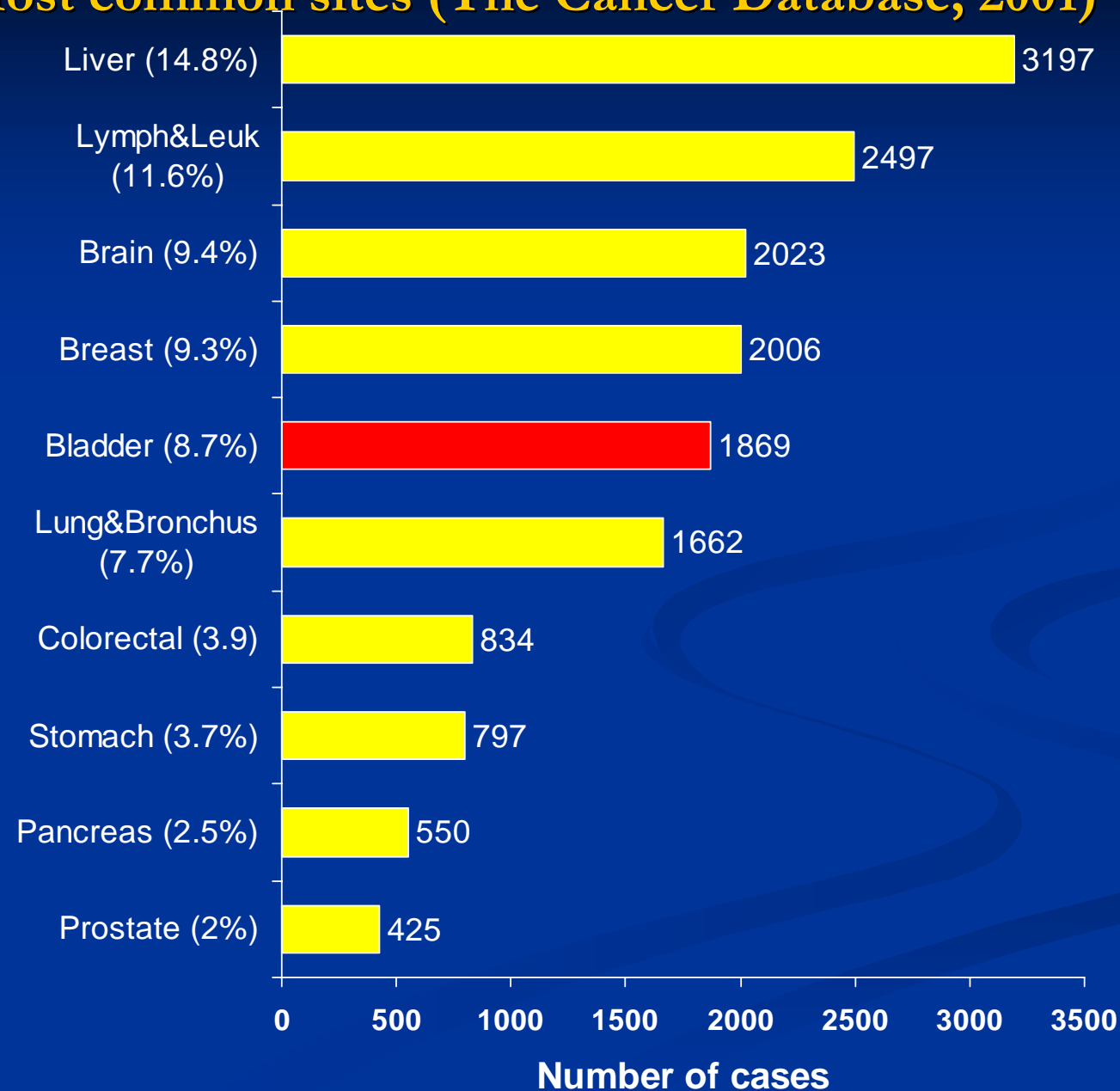


Age-adjusted Incidence Rates for Kidney Cancer in Africa



Egypt Mortality Statistics, 2001

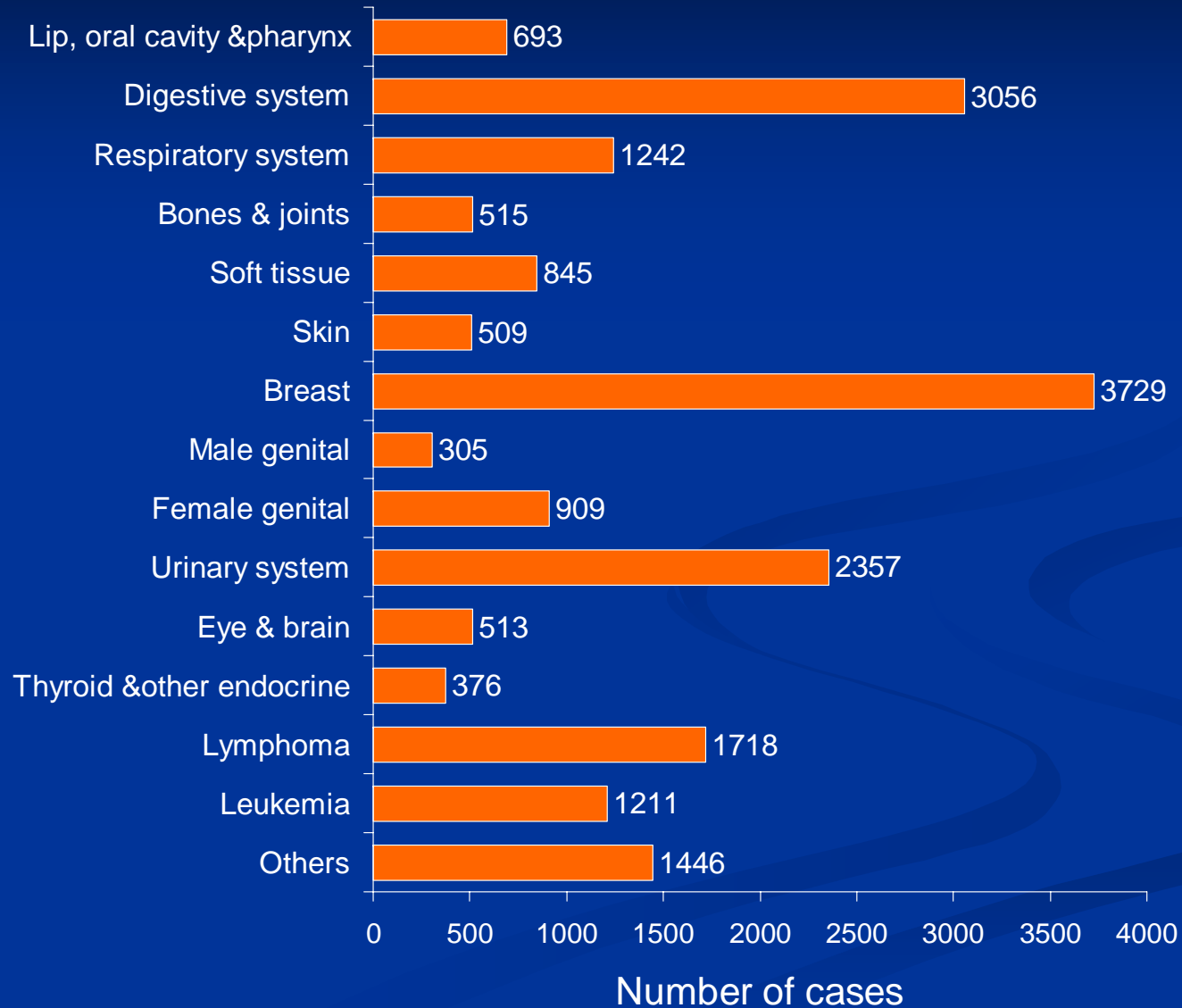
Most common sites (The Cancer Database, 2001)



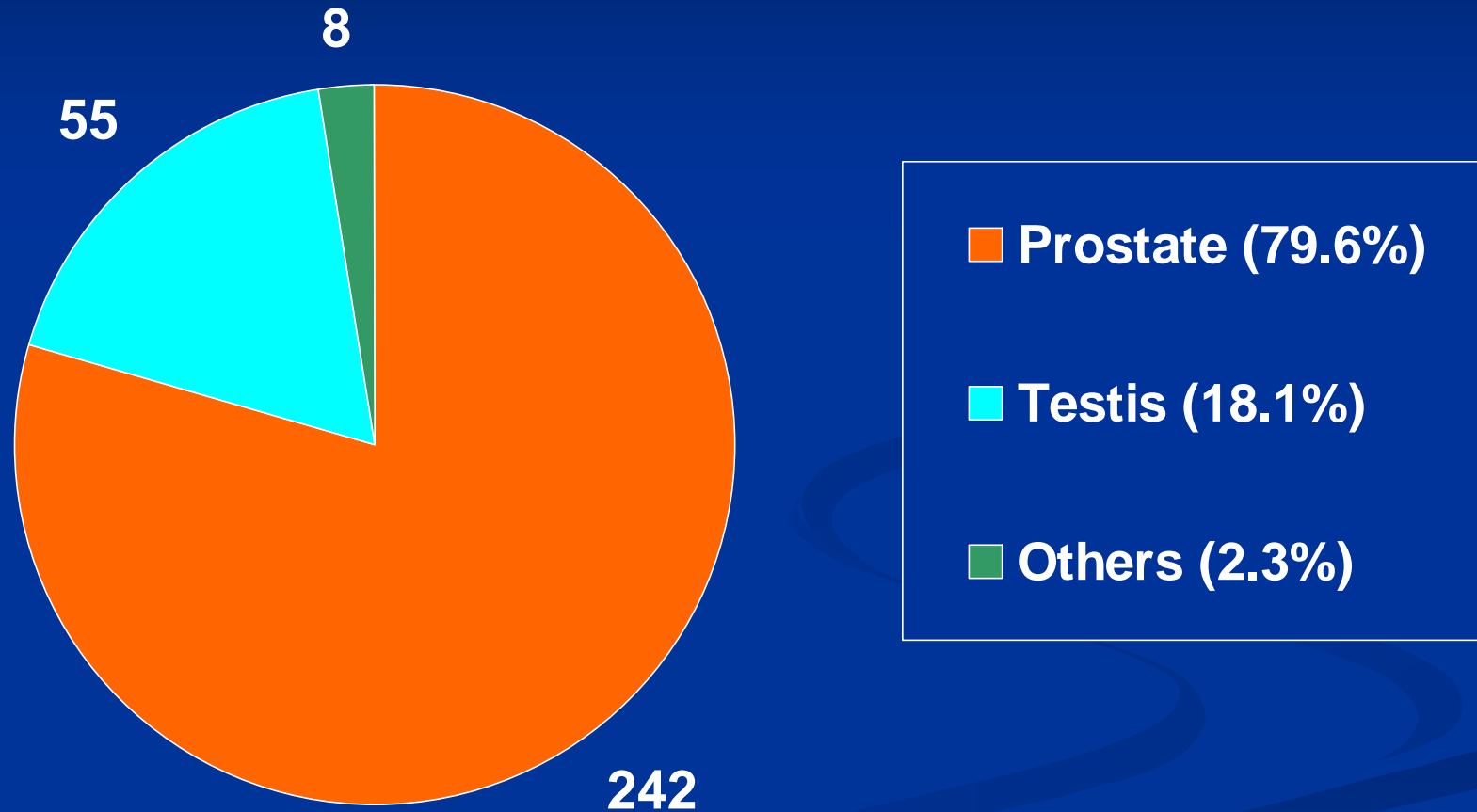
National Cancer Institute, Cairo, Egypt



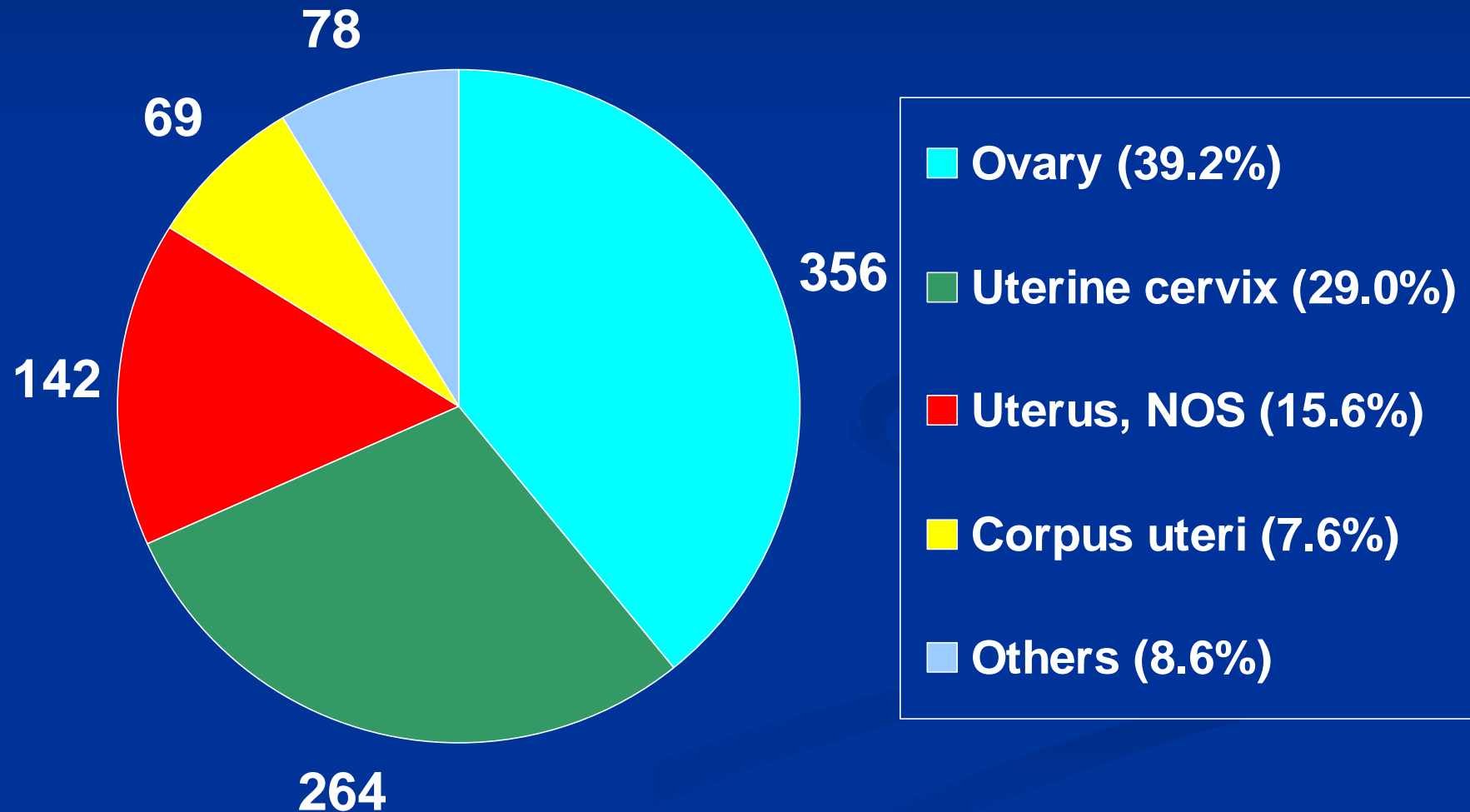
19,568 New Cancer Cases by Systems, NCI 2001-2002



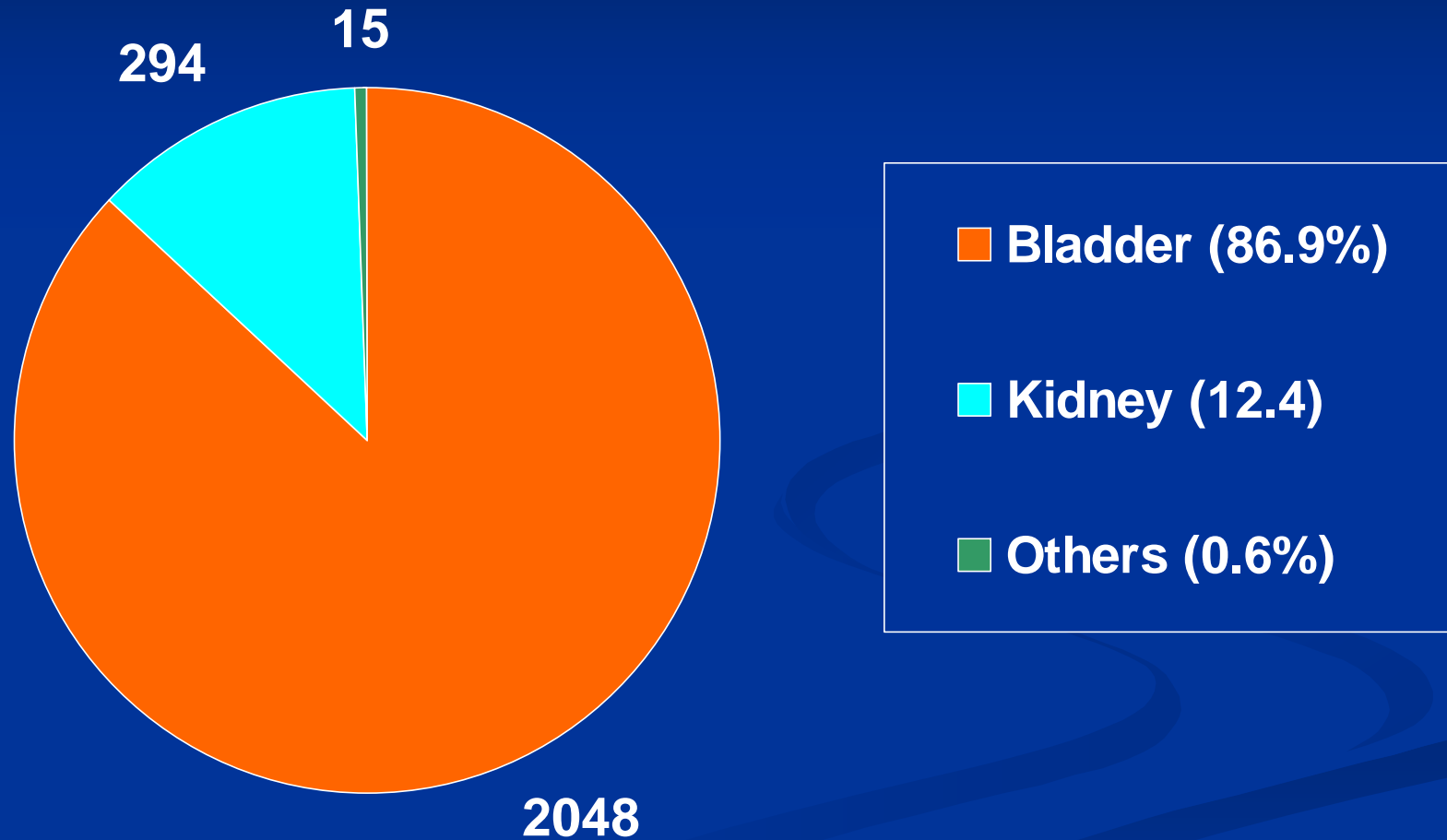
305 (1.6%) New Cases of Male Genital System, NCI 2001-2002



909 (4.7%) New Cases of Female Genital System, NCI 2001-2002



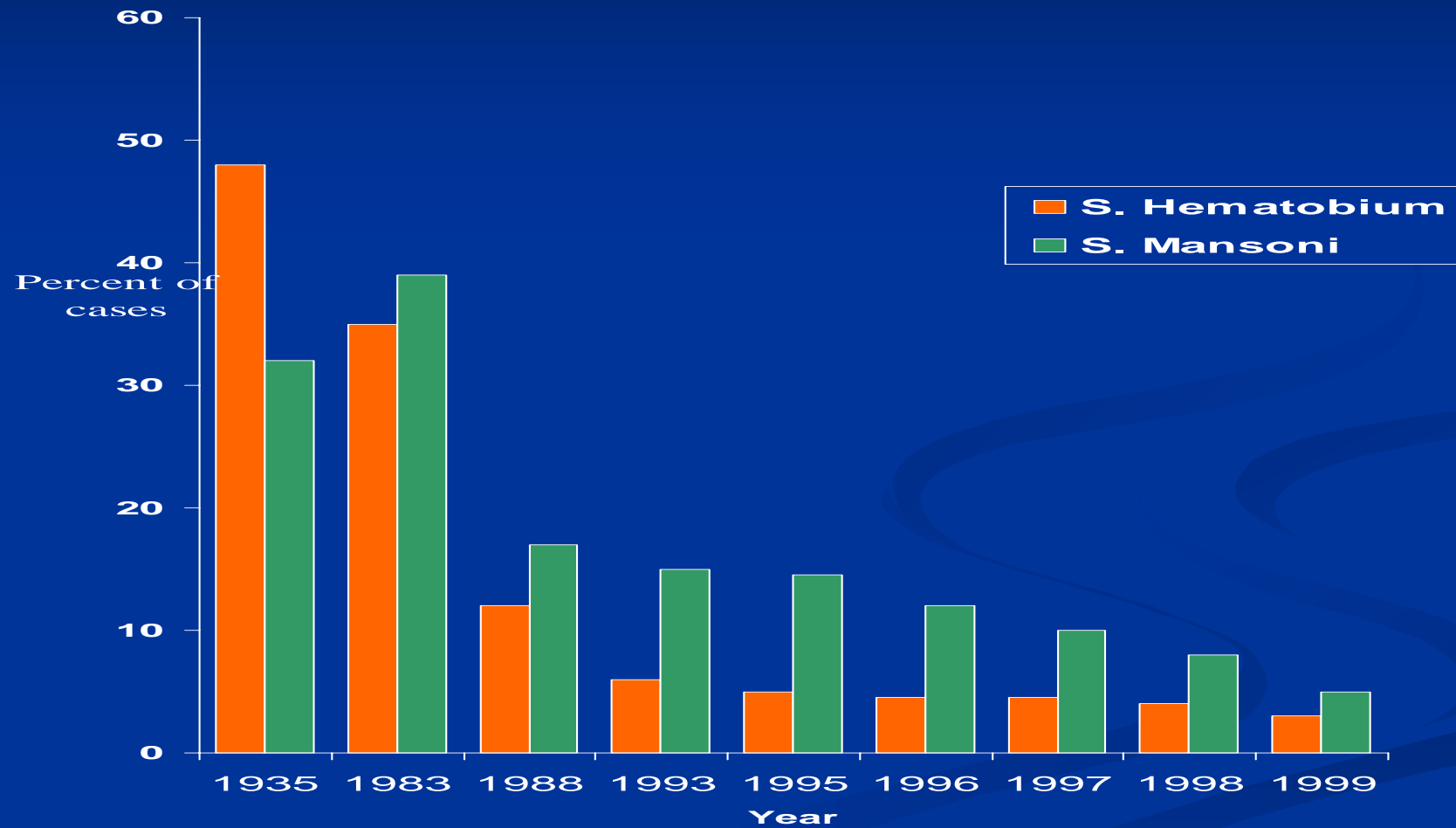
2,357 (12%) New Cases of Urinary Tract System, NCI 2001-2002



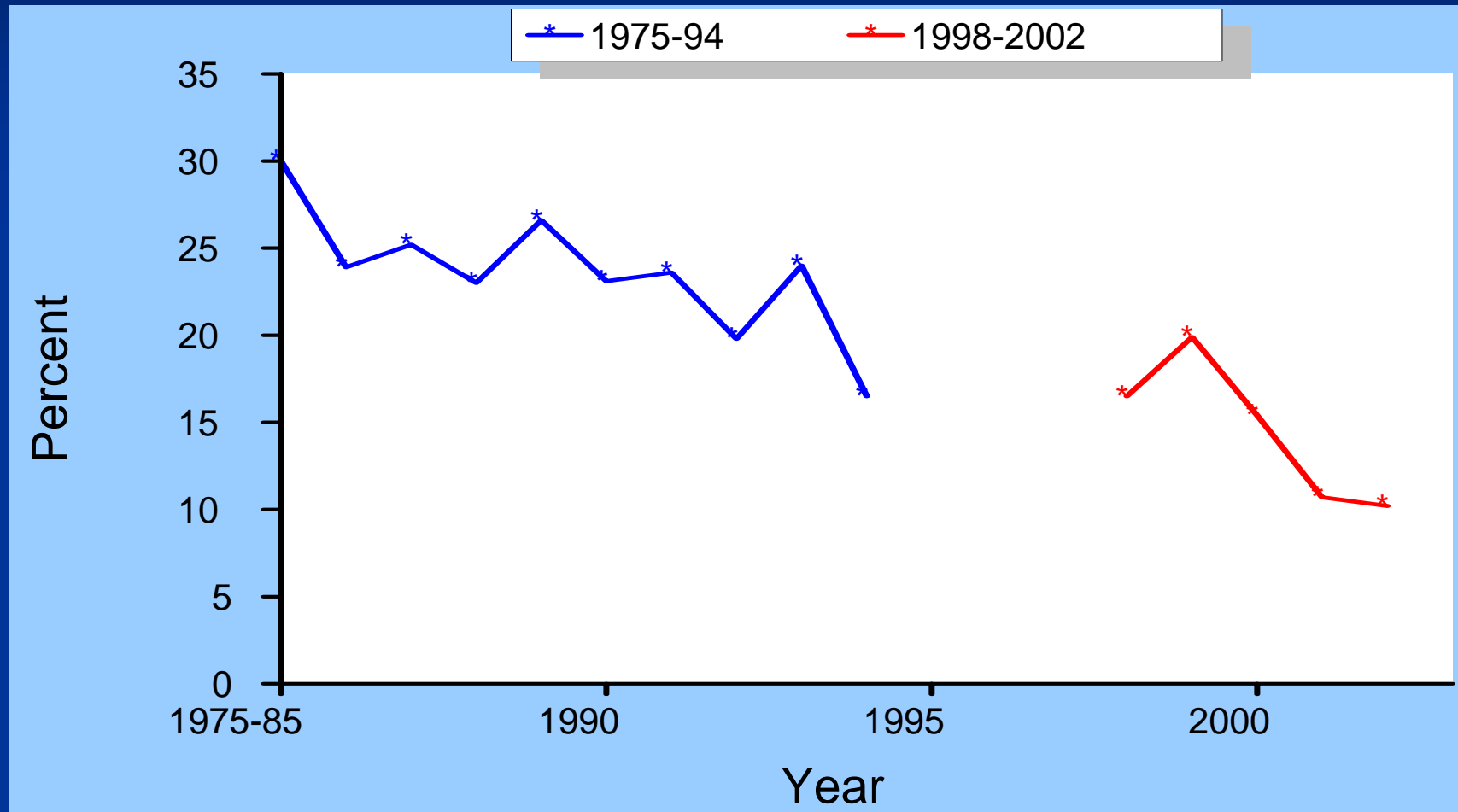
Bladder Cancer in Egypt, Overview

- Bladder cancer constituted over 30% of total cancer incidence and ranked first among all types of cancer reported in males
- This high incidence of bladder cancer was associated with bilharzial infection which was endemic in Egypt
- According to recent reports, the incidence reduced to about one third of the previously reported cases
- But still ranks first among all types of cancer in males

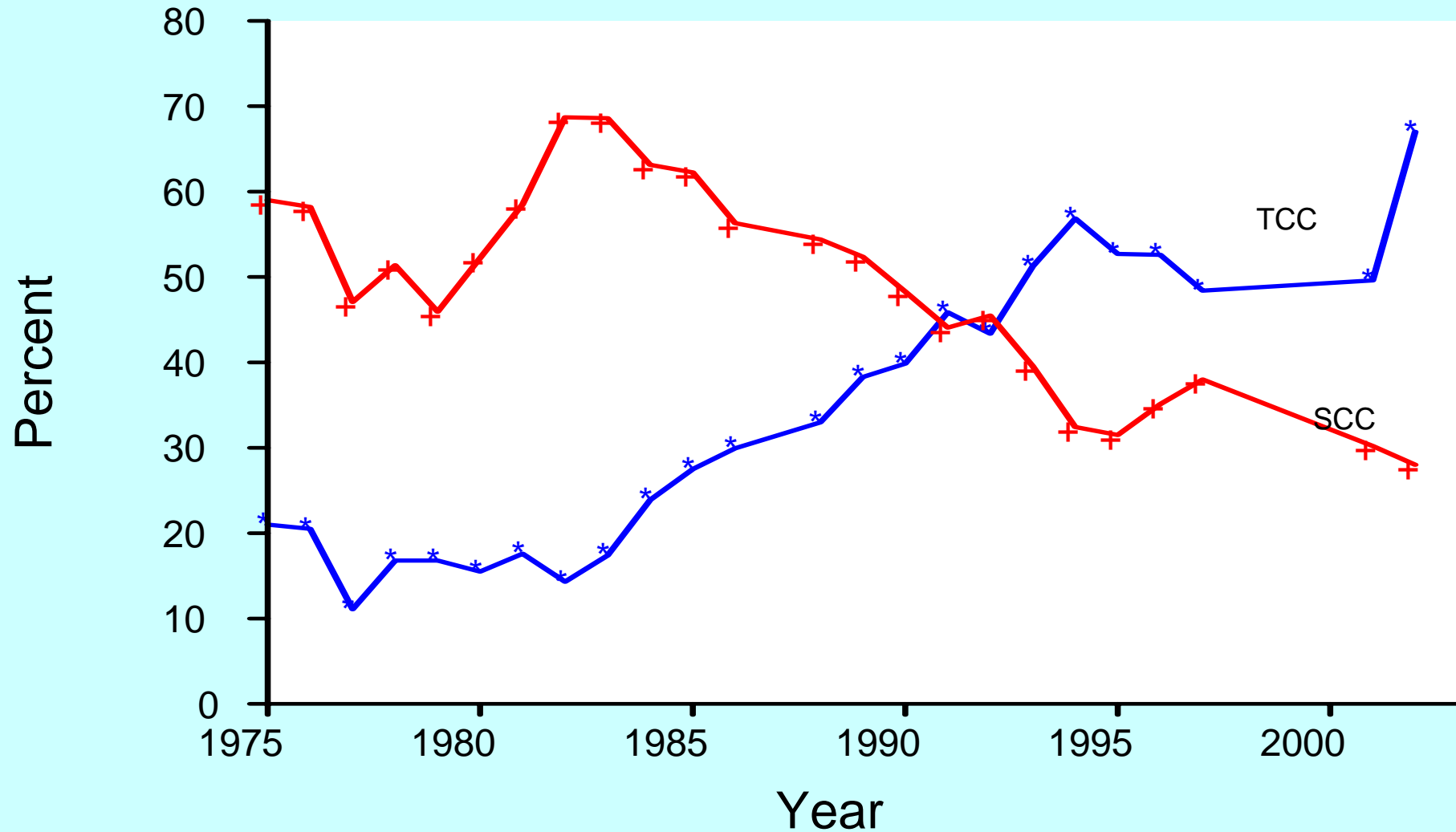
Prevalence of Bilharziasis Egypt, 1935-1999



Relative Frequency of Bladder Cancer, NCI 1975-2002



Changing Pattern of Bladder Cancer Type, NCI 1975-2002



Conclusions

- Prostate Cancer: There is considerable variation in the incidence (5-43 per 100,000)
- Testicular Cancer: Very uncommon in all African countries
- Cervical cancer: Most African countries have higher incidence than the rest of the world
- Ovarian and uterine cancers: Not very frequent
- Bladder cancer: Egypt has the highest incidence

References

- Globocan 2000: Cancer Incidence, Mortality and Prevalence Worldwide, Version 1.0. Lyon, IARC Press, 2001
- The Cancer Database, Egypt, 1985-2001: Ministry of Health and Population and World Health Organization, 2002
- Gharbiah Cancer Registry, 1999
- National Cancer Institute, 2001-2002

Thank You