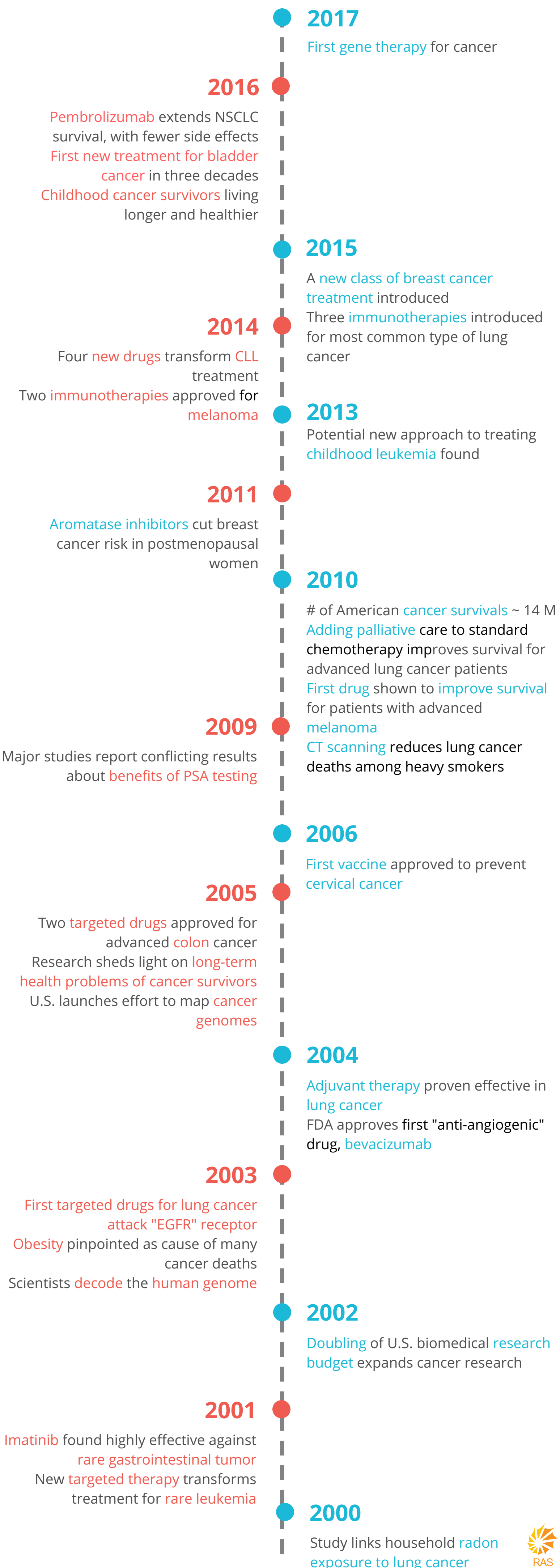


MAJOR ADVANCES IN CANCER



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● 1999

First targeted drug, **Herceptin (trastuzumab)** for Breast Cancer approved by FDA

● 1998

Chemotherapy before surgery helps more women benefit from **breast-conserving treatment**
New radiotherapy technique enables precise targeting of tumors near sensitive tissue

● 1997

FDA approves **first-ever targeted cancer drug, Rituxan (rituximab)** for B-cell Non-Hodgkin Lymphoma
Prophylactic surgery helps prevent breast and ovarian cancers in women at high risk
Surgery found to cure some patients with advanced colon cancer

● 1993

Taxanes emerge as a vital chemotherapy option for ovarian, breast cancer
Melanoma linked to sun exposure

● 1992

Sentinel lymph node biopsy determines cancer's spread with fewer side effects

● 1991

Powerful anti-nausea drugs Zofran (ondansetron) alleviate major side effect of cancer treatment
Cancer deaths begin steady decline

● 1990

Shift to **3-D radiation treatment** plans increases precision, safety of therapy
Laparoscopic surgery minimizes pain, recovery time for several cancers

● 1989

Drugs to **boost blood cells** like **Procrit, Epogen (epoetin alpha)** help patients finish cancer treatment, reduce infections

● 1988

Benzene discovered to cause **blood cancers**
Adjuvant chemotherapy proven for colorectal cancer

● 1986

Novaldex (tamoxifen) reduces breast cancer recurrence
PSA test enables early detection of prostate cancer
Global guidelines help ensure proper pain management
Second-hand smoke formally declared a **carcinogen**

● 1982

Limited surgery helps rectal cancer patients avoid colostomies



MAJOR ADVANCES IN CANCER

1981

First cancer vaccine prevents cancer-causing hepatitis B infection

1977

Growing use of mammography saves lives
Chemotherapy cure men with testicular cancer

1975

First adjuvant chemotherapy increases cure rates for early-stage breast cancer
Use of cancer-causing asbestos declines

1974

CT scanning provides clearer images of tumors, guiding radiation and other treatments

1971

National Cancer Act of 1971 becomes law

1970

Increased use of radioactive "seeds" to target prostate and other cancers

1965

Chemotherapy found to cure Hodgkin lymphoma

1960

Researchers link "Philadelphia chromosome" to leukemia

1959

Smoking linked to cancer; cessation campaigns begin

1958

Pioneering "combination chemotherapy" cures leukemia

1955

U.S. govt. establishes national research network to test new cancer treatments

1949

First chemotherapy drug Nitrogen Mustard approved for cancer (Hodgkin Lymphoma)

1947

First-ever remission of pediatric leukemia

1943

Introduction of Pap test leads to dramatic declines in cervical cancer deaths

1937

National Cancer Institute established

1903

First use of radiation to treat cancer

1884

Radical mastectomy ushers in more aggressive surgical approaches for cancer

1846

Advent of general anesthesia opens the door for modern cancer surgery

