# RSI,GARD Meta-Analysis

## 1. Data Summary

Recurrence Pool:

|  | No. of patients | No. of events | References |
|---|---|---|---|
| Breast | 629 | 202 | |
| Breast TN | 113 | 29 | |
| Endometrium | 204 | 18 | |
| Head and Neck | 92 | 28 | |
| NSCLC | 60 | 23 | |
| Total | 1098 | 300 | |

Survival Pool:

|  | No. of patients | No. of events | References |
|---|---|---|---|
| Breast | 159 | 40 | |
| Breast TN | 55 | 9 | |
| Endometrium | 204 | 62 | |
| Glioma | 270 | 209 | |
| NSCLC | 60 | 38 | |
| Pancreas | 73 | 50 | |
| Total | 821 | 408 | |

### Descriptive stats at 1, 5 yrs:

Recurrence:

| Site | 1_+XRT | 1_-XRT | 5_+XRT | 5_-XRT |
|---|---|---|---|---|
| Breast | 0.968 | 0.952 | 0.708 | 0.806 |
| Breast TN | 0.902 | | 0.754 | |
| Endometrium | 0.912 | 1.000 | 0.695 | 0.988 |
| Head and Neck | 0.741 | | 0.618 | |
| NSCLC | 0.809 | | 0.534 | |

Survival:

| Site | 1_+XRT | 1_-XRT | 5_+XRT | 5_-XRT |
|---|---|---|---|---|
| Breast | 0.987 | 0.950 | 0.805 | 0.747 |
| Breast TN | 1.000 | | 0.882 | |
| Endometrium | 0.942 | 0.965 | 0.540 | 0.790 |
| Glioma | 0.698 | 0.054 | 0.048 | |
| NSCLC | 0.882 | | 0.432 | |
| Pancreas | 0.771 | 0.800 | 0.352 | 0.279 |

# 2. Forest Plots
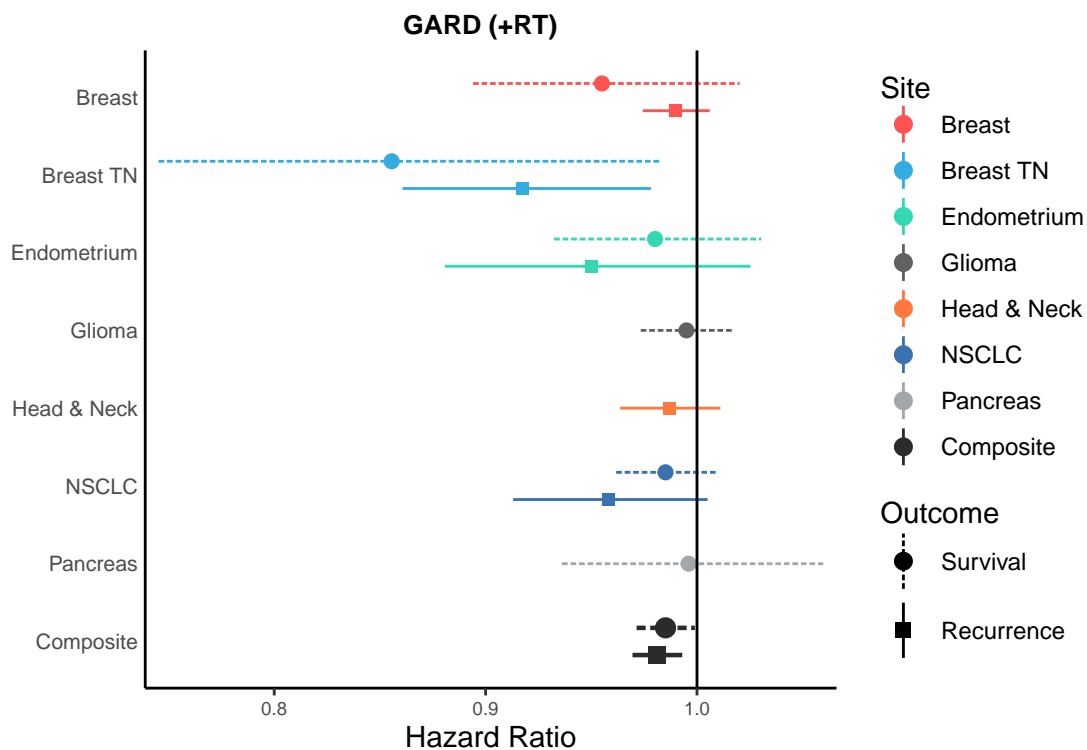


| | n | events | RH | lower | upper | p |
|---|---|---|---|---|---|---|
| | | | Recurrence | | | |
| Breast | 567 | 190 | 0.990 | 0.974 | 1.006 | 0.211 |
| Breast TN | 113 | 29 | 0.918 | 0.861 | 0.978 | 0.007 |
| Endometrium | 71 | 17 | 0.950 | 0.881 | 1.025 | 0.184 |
| Glioma | | | | | | |
| Head & Neck | 92 | 28 | 0.987 | 0.964 | 1.011 | 0.269 |
| NSCLC | 60 | 23 | 0.958 | 0.913 | 1.005 | 0.069 |
| Pancreas | | | | | | |
| Composite | 903 | 287 | 0.981 | 0.969 | 0.993 | 0.003 |
| | | | Survival | | | |
| Breast | 77 | 19 | 0.955 | 0.894 | 1.020 | 0.161 |
| Breast TN | 55 | 9 | 0.856 | 0.745 | 0.982 | 0.025 |
| Endometrium | 71 | 37 | 0.980 | 0.932 | 1.030 | 0.438 |
| Glioma | 214 | 153 | 0.995 | 0.973 | 1.017 | 0.635 |
| Head & Neck | | | | | | |
| NSCLC | 60 | 38 | 0.985 | 0.962 | 1.009 | 0.219 |
| Pancreas | 48 | 33 | 0.996 | 0.936 | 1.060 | 0.887 |
| Composite | 525 | 289 | 0.985 | 0.971 | 0.999 | 0.036 |

Site

**GARD (−RT)**
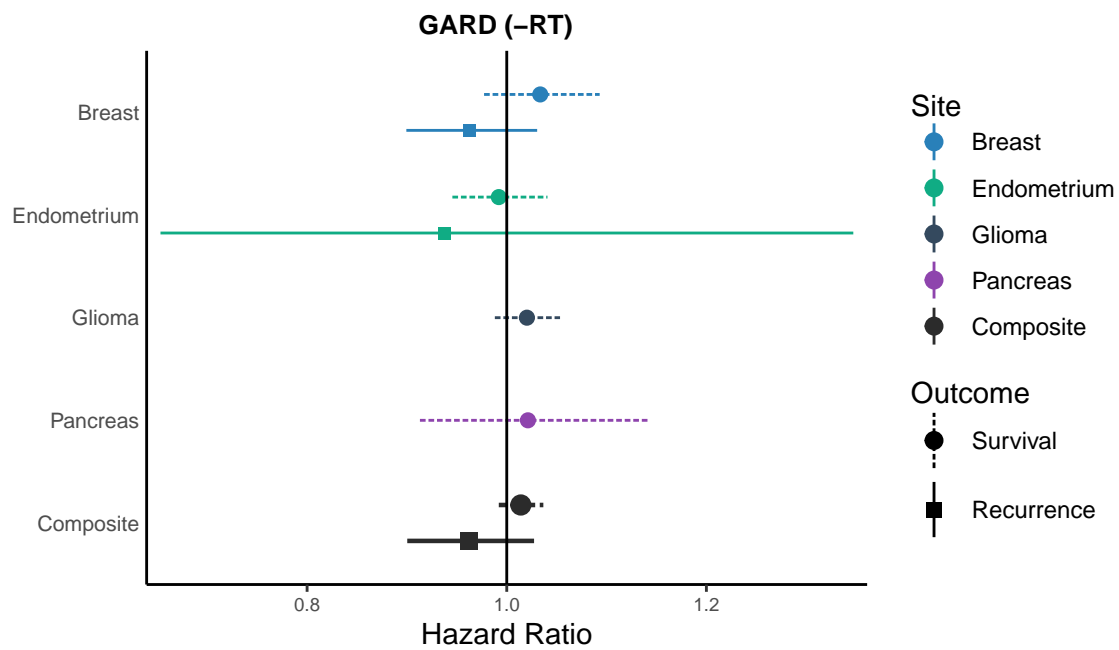
|  | n | events | RH | lower | upper | p |
|---|---|---|---|---|---|---|
| | | | | **Recurrence** | | |
| Breast | 62 | 12 | 0.963 | 0.899 | 1.030 | 0.258 |
| Endometrium | 133 | 1 | 0.938 | 0.653 | 1.347 | 0.723 |
| Glioma | | | | | | |
| Pancreas | | | | | | |
| Composite | 195 | 13 | 0.962 | 0.900 | 1.027 | 0.235 |
| | | | | **Survival** | | |
| Breast | 82 | 21 | 1.034 | 0.977 | 1.093 | 0.236 |
| Endometrium | 133 | 25 | 0.992 | 0.946 | 1.041 | 0.754 |
| Glioma | 56 | 56 | 1.020 | 0.988 | 1.053 | 0.208 |
| Pancreas | 25 | 17 | 1.021 | 0.913 | 1.142 | 0.713 |
| Composite | 296 | 119 | 1.014 | 0.992 | 1.037 | 0.196 |
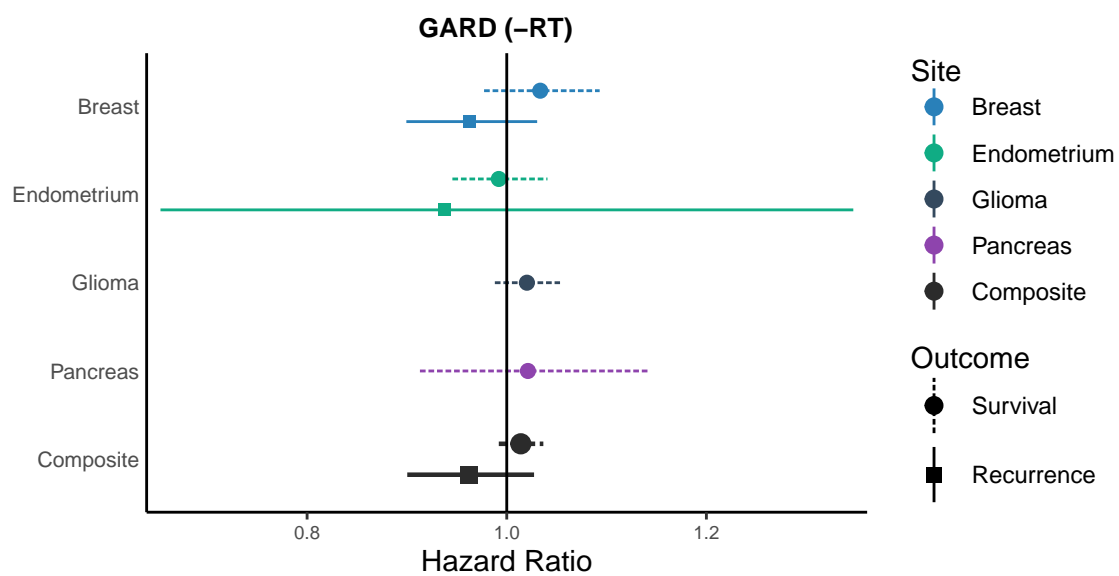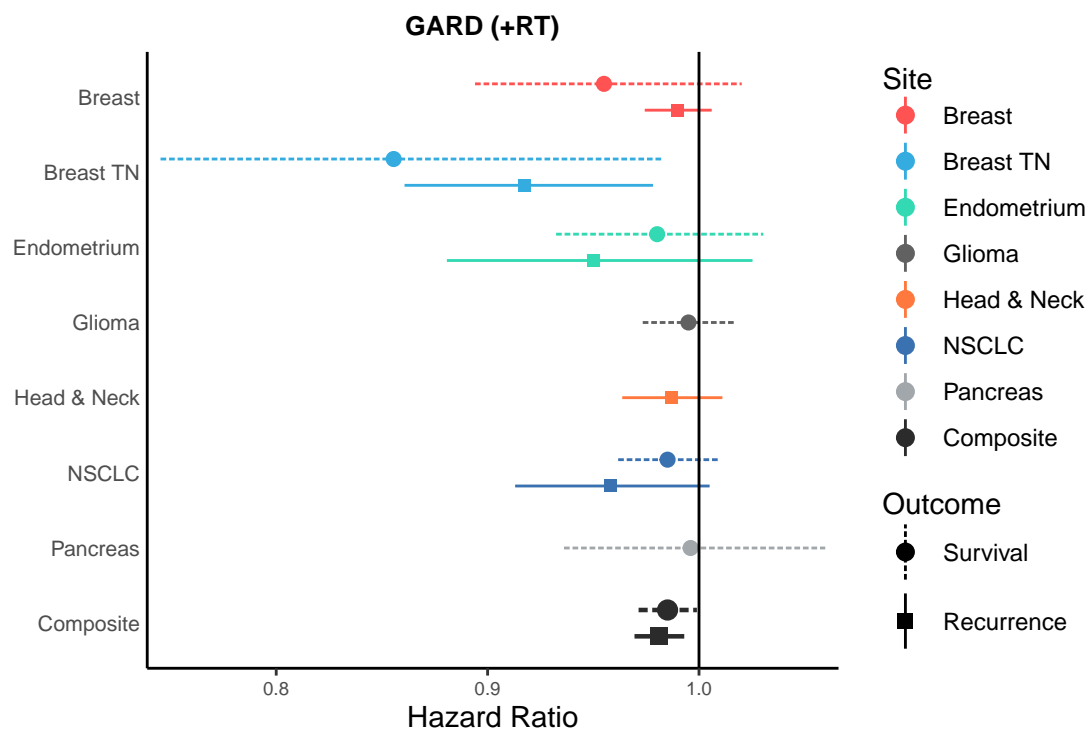
# 3. Pooled Analysis

| Outcome | chisq_+xrt | p_+xrt | chisq_-xrt | p_-xrt |
|---|---|---|---|---|
| Recurrence RSI | 6.1 | 0.013 | 1.8 | 0.176 |
| Recurrence GARD | 9.0 | 0.003 | 1.4 | 0.235 |
| Survival RSI | 2.8 | 0.097 | 1.2 | 0.282 |
| Survival GARD | 4.4 | 0.036 | 1.7 | 0.196 |