Table S1 Conditional Overall Survival of ccRCC at Various Time Points

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | COS since Time Point (months) |
|  | Observed Survival |  | 12 |  | 24 |  | 36 |  | 48 |  | 60 |  | 72 |
| Time Point | % | 95% CI |  | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI |
| 12 |  | 92 | 92-93 |  | 95 | 94-95 | 90 | 90-91 | 86 | 86-87 | 83 | 82-83 | 79 | 79-80 | 76 | 75-76 |
| 24 |  | 87 | 87-88 |  | 95 | 95-96 | 91 | 91-92 | 87 | 87-88 | 84 | 83-84 | 80 | 79-80 | 76 | 76-77 |
| 36 |  | 83 | 83-84 |  | 96 | 96-96 | 92 | 91-92 | 88 | 87-88 | 84 | 83-84 | 80 | 79-81 | 76 | 75-77 |
| 48 |  | 80 | 79-80 |  | 96 | 95-96 | 92 | 91-92 | 87 | 87-88 | 84 | 83-84 | 80 | 79-80 | 76 | 74-77 |
| 60 |  | 76 | 76-77 |  | 96 | 95-96 | 91 | 91-92 | 87 | 87-88 | 83 | 82-84 | 79 | 78-80 |  |  |
| 72 |  | 73 | 73-74 |  | 95 | 95-96 | 91 | 91-92 | 87 | 86-88 | 82 | 81-83 |  |  |  |  |
| 84 |  | 70 | 69-70 |  | 96 | 95-96 | 91 | 90-92 | 86 | 85-87 |  |  |  |  |  |  |
| 96 |  | 67 | 66-67 |  | 95 | 95-96 | 90 | 89-91 |  |  |  |  |  |  |  |  |
| Low-risk ccRCC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  | 98 | 98-98 |  | 98 | 98-98 | 95 | 95-95 | 92 | 92-93 | 89 | 89-90 | 86 | 86-87 | 83 | 82-83 |
| 24 |  | 96 | 95-96 |  | 97 | 97-97 | 94 | 94-95 | 91 | 91-92 | 88 | 88-89 | 85 | 84-85 | 82 | 81-82 |
| 36 |  | 93 | 93-93 |  | 97 | 97-97 | 94 | 94-94 | 91 | 91-91 | 87 | 87-88 | 84 | 83-85 | 81 | 80-81 |
| 48 |  | 90 | 90-91 |  | 97 | 97-97 | 94 | 93-94 | 90 | 89-90 | 86 | 86-87 | 83 | 82-84 | 79 | 78-80 |
| 60 |  | 87 | 87-88 |  | 97 | 96-97 | 93 | 92-93 | 89 | 89-90 | 86 | 85-86 | 82 | 81-83 |  |  |
| 72 |  | 84 | 84-85 |  | 96 | 96-96 | 92 | 92-93 | 89 | 88-89 | 85 | 84-86 |  |  |  |  |
| 84 |  | 81 | 81-82 |  | 96 | 96-97 | 92 | 92-93 | 88 | 87-89 |  |  |  |  |  |  |
| 96 |  | 78 | 77-79 |  | 96 | 95-97 | 92 | 91-93 |  |  |  |  |  |  |  |  |
| High-risk ccRCC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  | 93 | 92-93 |  | 92 | 91-93 | 85 | 84-86 | 79 | 78-80 | 74 | 72-75 | 69 | 67-70 | 64 | 62-65 |
| 24 |  | 85 | 84-86 |  | 92 | 92-93 | 86 | 85-87 | 80 | 79-81 | 75 | 73-76 | 69 | 68-71 | 65 | 63-67 |
| 36 |  | 79 | 78-80 |  | 93 | 93-94 | 87 | 85-86 | 81 | 79-82 | 75 | 74-77 | 70 | 68-72 | 65 | 63-67 |
| 48 |  | 74 | 73-75 |  | 93 | 92-94 | 86 | 85-88 | 81 | 79-82 | 75 | 73-77 | 69 | 67-72 | 63 | 61-66 |
| 60 |  | 68 | 67-69 |  | 93 | 92-94 | 87 | 85-88 | 81 | 79-83 | 75 | 72-77 | 69 | 66-72 |  |  |
| 72 |  | 64 | 62-65 |  | 93 | 92-95 | 87 | 85-89 | 80 | 78-83 | 74 | 70-77 |  |  |  |  |
| 84 |  | 59 | 58-61 |  | 93 | 92-95 | 86 | 84-88 | 79 | 76-82 |  |  |  |  |  |  |
| 96 |  | 55 | 54-57 |  | 92 | 90-94 | 84 | 81-87 |  |  |  |  |  |  |  |  |
| Metastatic ccRCC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  | 56 | 54-57 |  | 67 | 65-69 | 50 | 48-52 | 38 | 36-40 | 30 | 28-32 | 25 | 23-27 | 21 | 19-23 |
| 24 |  | 37 | 36-39 |  | 75 | 73-77 | 57 | 54-59 | 45 | 42-48 | 37 | 34-40 | 31 | 28-34 | 27 | 24-30 |
| 36 |  | 28 | 27-29 |  | 75 | 73-78 | 60 | 57-64 | 49 | 45-53 | 41 | 37-45 | 36 | 32-40 | 32 | 28-36 |
| 48 |  | 21 | 20-22 |  | 80 | 77-83 | 65 | 61-69 | 54 | 50-59 | 48 | 43-53 | 42 | 37-48 | 39 | 33-44 |
| 60 |  | 17 | 16-18 |  | 81 | 77-85 | 68 | 63-73 | 60 | 54-65 | 53 | 47-59 | 49 | 42-55 |  |  |
| 72 |  | 14 | 12-15 |  | 84 | 79-88 | 74 | 68-79 | 65 | 58-72 | 60 | 52-68 |  |  |  |  |
| 84 |  | 11 | 10-13 |  | 88 | 82-93 | 78 | 70-85 | 71 | 63-80 |  |  |  |  |  |  |
| 96 |  | 10 | 9-11 |  | 89 | 82-95 | 81 | 73-90 |  |  |  |  |  |  |  |  |

Table S2 Conditional Overall Survival at Various Time Points in FUSCC cohort

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | COS since Time Point (months) |
|  | Observed Survival |  | 12 |  | 24 |  | 36 |  | 48 |  | 60 |  | 72 |
| Time Point | % | 95% CI |  | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI | % | 95% CI |
| 12 |  | 96 | 95-97 |  | 96 | 95-97 | 93 | 92-94 | 90 | 89-92 | 86 | 85-88 | 83 | 81-86 | 80 | 77-82 |
| 24 |  | 93 | 91-94 |  | 96 | 95-97 | 94 | 92-95 | 90 | 88-91 | 87 | 85-89 | 83 | 80-85 | 78 | 75-82 |
| 36 |  | 89 | 88-91 |  | 97 | 96-98 | 93 | 92-95 | 90 | 89-92 | 86 | 83-88 | 81 | 78-85 | 74 | 69-78 |
| 48 |  | 87 | 85-88 |  | 96 | 94-97 | 93 | 91-94 | 88 | 86-91 | 84 | 80-87 | 76 | 71-80 | 73 | 68-78 |
| 60 |  | 83 | 81-85 |  | 97 | 95-98 | 92 | 90-95 | 87 | 84-91 | 79 | 75-84 | 76 | 71-81 |  |  |
| 72 |  | 80 | 78-82 |  | 96 | 94-98 | 90 | 87-94 | 82 | 77-86 | 79 | 73-84 |  |  |  |  |
| 84 |  | 77 | 74-79 |  | 95 | 92-97 | 86 | 81-90 | 82 | 77-87 |  |  |  |  |  |  |
| 96 |  | 73 | 69-76 |  | 90 | 86-95 | 87 | 82-92 |  |  |  |  |  |  |  |  |
| Low-risk RCC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  | 100 | 99-100 |  | 99 | 99-100 | 98 | 97-99 | 96 | 95-97 | 94 | 93-95 | 92 | 90-93 | 88 | 85-90 |
| 24 |  | 99 | 99-100 |  | 99 | 98-99 | 97 | 96-98 | 95 | 93-96 | 92 | 91-94 | 88 | 86-91 | 84 | 81-87 |
| 36 |  | 98 | 97-98 |  | 99 | 98-99 | 96 | 95-97 | 94 | 92-95 | 90 | 87-92 | 85 | 82-89 | 77 | 72-81 |
| 48 |  | 96 | 95-97 |  | 97 | 96-99 | 95 | 93-97 | 91 | 88-93 | 87 | 83-90 | 78 | 73-82 | 75 | 69-80 |
| 60 |  | 94 | 92-95 |  | 98 | 96-99 | 93 | 91-96 | 89 | 86-92 | 80 | 75-84 | 77 | 71-82 |  |  |
| 72 |  | 91 | 90-93 |  | 96 | 94-98 | 91 | 88-94 | 82 | 77-86 | 79 | 73-84 |  |  |  |  |
| 84 |  | 87 | 85-90 |  | 95 | 92-98 | 86 | 81-90 | 82 | 77-87 |  |  |  |  |  |  |
| 96 |  | 83 | 80-87 |  | 90 | 86-94 | 86 | 81-92 |  |  |  |  |  |  |  |  |
| High-risk RCC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  | 94 | 91-97 |  | 91 | 87-95 | 82 | 77-88 | 74 | 67-80 | 63 | 55-70 | 54 | 46-63 | 53 | 44-62 |
| 24 |  | 86 | 82-90 |  | 90 | 86-94 | 81 | 75-87 | 69 | 61-76 | 60 | 50-69 | 58 | 48-67 | 51 | 40-62 |
| 36 |  | 77 | 72-83 |  | 90 | 84-95 | 76 | 68-84 | 66 | 56-76 | 64 | 54-75 | 57 | 45-69 | 57 | 45-69 |
| 48 |  | 69 | 63-76 |  | 85 | 77-93 | 74 | 64-84 | 71 | 61-82 | 63 | 50-76 | 63 | 50-76 | 58 | 42-73 |
| 60 |  | 59 | 52-66 |  | 87 | 77-97 | 84 | 73-95 | 74 | 60-89 | 74 | 60-89 | 68 | 51-86 | 87 | 77-97 |
| Metastatic RCC |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12 |  | 63 | 56-71 |  | 61 | 51-71 | 37 | 27-46 | 28 | 19-37 | 20 | 10-29 | 20 | 10-29 | 17 | 8-27 |
| 24 |  | 39 | 31-46 |  | 60 | 46-73 | 46 | 32-59 | 32 | 17-47 | 32 | 17-47 |  |  |  |  |
| 36 |  | 23 | 16-30 |  | 77 | 61-92 | 54 | 32-76 | 54 | 32-76 |  |  |  |  |  |  |
| 48 |  | 18 | 12-24 |  | 71 | 45-97 | 71 | 45-97 |  |  |  |  |  |  |  |  |