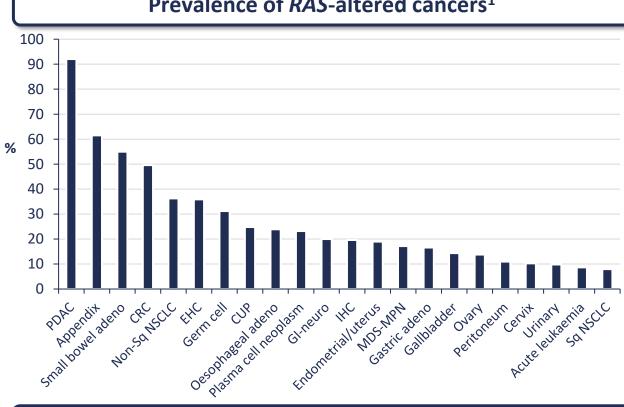


**Practice aid for the treatment of RAS-mutant cancer** For more information, visit: <u>www.touchONCOLOGY.com</u>

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Practice aid for treatment of RAS-mutant cancer



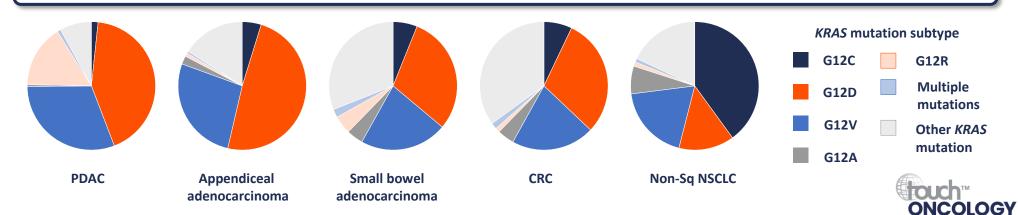
## Prevalence of RAS-altered cancers<sup>1</sup>

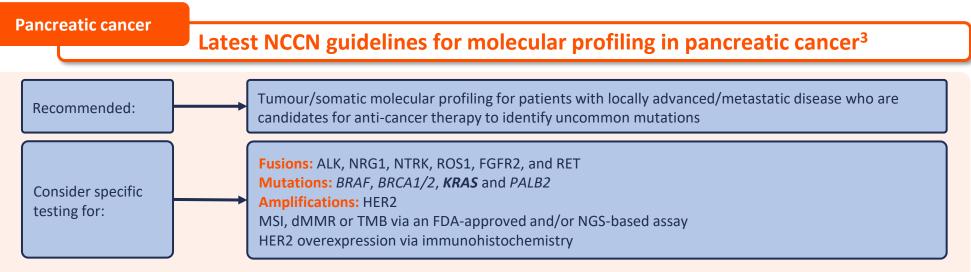
## Future RAS-directed approaches<sup>2</sup>

Therapeutic strategies for targeting oncogenic RAS are currently in clinical development:

- Mutant-specific direct KRAS inhibitors •
- **Pan-RAS** inhibitors
- SOS1 inhibitors •
- SHP2 inhibitors •
- **RAS** degraders
- **RAS toxins** •
- Adoptive cell therapy
- **Cancer vaccines**
- **KRAS** siRNAs

## **RAS** mutation subtypes among common solid tumours<sup>1</sup>





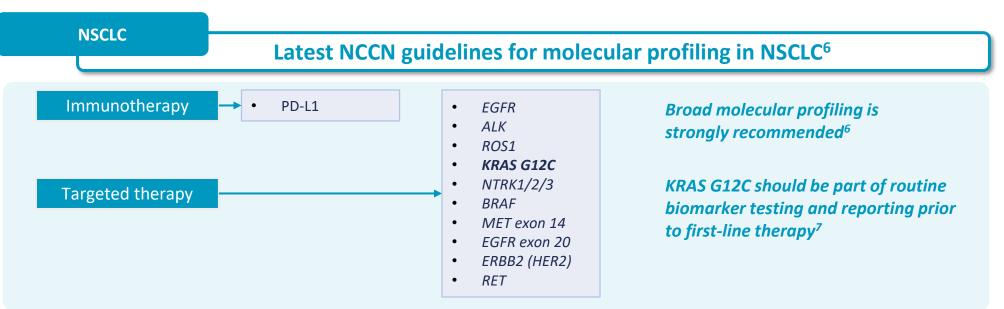
Testing on tumour tissue preferred; however, cell-free DNA testing can be considered if tumour tissue testing not feasible

## Pan-RAS and RAS allele-specific inhibitors in clinical trials in pancreatic cancer

Trial info	Treatment	Efficacy	Safety
RMC-6236-001 <sup>4</sup> Phase I n=22 (G12D, n=13; G12V, n=7; G12R, n=2)	RMC-6236 Pan-RAS(ON) inhibitor	ORR: 36%* DCR: 86%* mTTR: 6 weeks	<ul> <li>TRAEs occurring in 10% of patients: Rash (52%), diarrhoea (21%), nausea (21%) and vomiting (15%)</li> </ul>
RMC-9805-001 <sup>5</sup> Phase I n=104 KRAS G12D mutations	RMC-9805 RAS(ON) G12D- selective inhibitor	ORR: 30% <sup>†</sup> DCR: 80% <sup>†</sup>	<ul> <li>Tolerability was favourable relative to SOC chemotherapy for PDAC and manageable across all dose levels and tumour types evaluated</li> <li>Most common TRAEs (≥10% of patients): nausea (27%), diarrhoea (20%), vomiting (15%) and rash (10%); all grade 1/2 severity</li> </ul>



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## **Emerging KRAS inhibitors with targets beyond G12C in pre-treated NSCLC**

Multi-RAS inhibition	Agent	Phase	N (NSCLC)	MOA	ORR (%)	Safety
	RMC-6236 <sup>8</sup>	I	46	On-state inhibitor	38	Most common TRAEs: Rash and GI-related toxicities (mostly grade 1/2)

2D	Agents in ongoing clinical trials <sup>9</sup>				
613 bitio	• HRS-4642				
RAS nhi	• RMC-9805				
×	• MRTX1133				



# Abbreviations and references

### **Abbreviations**

Adeno, adenocarcinoma; AE, adverse event; CRC, colorectal cancer; CUP, cancer of unknown primary; DCR, disease control rate; dMMR, mismatch repair deficiency; EGFR, epidermal growth factor receptor; EHC, extra-hepatic cholangiocarcinoma; FDA, Food and Drug Administration; GI-neuro, gastrointestinal neuroendocrine; HER2, human epidermal growth factor receptor 2; IHC, intra-hepatic cholangiocarcinoma; m, median; MDS-MPN, myelodysplastic-myeloproliferative neoplasm; MOA, mode of action; MSI, microsatellite instability; NCCN, National Comprehensive Cancer Network; NGS, next-generation sequencing; NSCLC, non-small cell lung cancer; ORR, objective response rate; PDAC, pancreatic ductal adenocarcinoma; PD-L1, programmed death-ligand 1; SOC, standard of care; Sq, squamous; TMB, tumour mutational burden; TRAE, treatment-related AE; TTR, time to response.

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The guidance provided by this practice aid is not intended to directly influence patient care. Clinicians should always evaluate their patients' conditions and potential contraindications and review any relevant manufacturer product information or recommendations of other authorities prior to consideration of procedures, medications, or other courses of diagnosis or therapy included here.

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