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Version: Supplemental Material

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## **Appendix 1: List of collaborators**

EAU – EANM - ESTRO - ESUR - SIOG Prostate Cancer Guidelines Panel

European Association of Urology Research Foundation (EAU RF)

European Urology

EAU Section of Oncological Urology (ESOU)

American Society of Clinical Oncology (ASCO)

American Urological Association (AUA)

European Society for Radiotherapy and Oncology (ESTRO)

European Association of Urology Nurses (EAUN)

Canadian Urological Association (CUA)

International Society of Urological Pathology (ISUP)

Urological Society of Australia and New Zealand (USANZ)

European Society of Urogenital Radiology (ESUR)

Urological Association of Asia (UAA)

American Society for Radiation Oncology (ASTRO)

Europa UOMO

Red Sock Campaign

Movember Foundation

## Appendix 2: DETECTIVE Delphi survey\*

**\*NOTE all participants saw the same questions in round 1 and round 2 of the Delphi. Two additional questions (suggested by participants in round 1) were included in round 2. These can be seen at the end of this appendix.**

### MAIN QUESTIONS PAGE

Please complete the following section which relates to background information.

#### Part 1: Background information

<b>Name</b>	
What is your main area of speciality? (please tick one that best apply to you)	Urology Clinical or Radiation Oncology Medical Oncology Radiology Pathology General Practitioner Specialist Nurse Other – please specify
What treatment for localised prostate cancer do you specialise in? (you may tick more than one)	Active surveillance Open radical prostatectomy Laparoscopic radical prostatectomy Robot-assisted radical prostatectomy External beam radiotherapy Three dimensional conformal radiotherapy (3D-CRT)

	Intensity modulated radiotherapy (IMRT) Volumetric modulated arc therapy (VMAT) Brachytherapy High Intensity Focussed Ultrasound (HIFU) Cryotherapy (cryosurgery) Focal therapy (including all types of energies and techniques) Other – please specify Not directly involved with treatment for localised prostate cancer Unable to answer
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**Part 2: Main questions regarding statements concerning deferred active treatment/active surveillance/active monitoring**

Please state your level of agreement for each of the following statements. On each page you will see a list of statements organised under the different domains in the patient management pathway for deferred active treatment/active surveillance/active monitoring. These include: (1) Patient eligibility, inclusion and exclusion criteria; (2) Monitoring and follow-up criteria; (3) Reclassification criteria; and (4) Outcome measures, definitions and thresholds. Each domain is sub-divided into the relevant sub-domains. You will be asked to score your agreement on a scale of 1-9, with 1 being ‘Strongly disagree’ and 9 being ‘Strongly agree’. If you feel you are unable to answer, please select ‘Unable to score’. Please specify any other important statements/outcomes that you strongly believe should be included in this survey in the space provided in Section E (Domain 5: Additional statements) on the final page and remember to score any new statements that you suggest.

**A. Domain 1: Patient eligibility, inclusion and exclusion criteria**

**I. Age and life expectancy**

		<b>Strongly disagree</b>	<b>Neither agree nor disagree</b>	<b>Strongly agree</b>	
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have their PSA checked:	ii. Every 12 months																		
	iii. Not checked at all																		
During active surveillance, men should have a digital rectal examination (DRE):	i. Every 3 months																		
	ii. Every 6 months																		
	iii. Every 12 months																		
	iv. Not needed																		
During active surveillance, repeat biopsy should be performed:	i. Every 12 months																		
	ii. Every 24 months																		
	iii. Every 48 months																		
	iv. At 1 year, 4 years and 7 years																		
	v. Not routinely pre-planned unless triggered																		
	vi. Triggered by a change in mpMRI (i.e. increase PI-RADS score, lesion volume or radiological T stage)																		
	vii. Triggered by PSA doubling time <3 years																		
	viii. Triggered by DRE progression																		
If repeat biopsies are needed, they should be performed by:	i. 10-12 core TRUS-guided																		
	ii. MRI-guided targeted biopsies (including in-bore, cognitive guidance or MRI fusion) without systematic biopsies																		
	iii. MRI-guided targeted biopsies (including in-bore, cognitive guidance or MRI fusion) with systematic biopsies																		
	iv. Transperineal template biopsies instead of MRI-guided biopsies																		
	v. TRUS-guided systematic biopsies																		

**C. Domain 3: Reclassification (i.e. leaving active surveillance for an active treatment) criteria**

**I. Reclassification – Criteria based on patient characteristics**







### V. Reclassification - Criteria based on imaging

		Strongly disagree			Neither agree nor disagree			Strongly agree			
Statement		1	2	3	4	5	6	7	8	9	Unable to score
Radiological evidence of disease progression is sufficient to reclassify in the absence of other factors.											
Radiological evidence of progression mandates an image-directed biopsy.											
A new focus of cancer on repeat imaging indicates re-classification	1. Always										
	2. Only if accompanied by a re-biopsy										
Increase in tumour volume (for $\leq T2$ disease) on imaging alone (i.e. in the absence of re-biopsy, PSA, etc.) indicates re-classification.											
An increase in the PI-RADS score indicates reclassification in the absence of other features.											

### VI. Reclassification - Criteria based on patient preference

		Strongly disagree			Neither agree nor disagree			Strongly agree			
Statement		1	2	3	4	5	6	7	8	9	Unable to score
Patient preference to switch to active treatment, regardless of other factors, should trigger reclassification.											

D. Domain 4: Outcome measures \* NOTE this is the subset of questions which patients were asked also

I. Primary outcome measures which must be measured and prioritised by all active surveillance programmes

Statement		Strongly disagree			Neither agree nor disagree			Strongly agree			Unable to score
		1	2	3	4	5	6	7	8	9	
The following outcomes are critically important for active surveillance programmes to measure:	Overall survival (i.e. a measure of survival or death from all causes, including natural causes)										
	Prostate cancer-specific survival (i.e. a measure of survival or death from prostate cancer only, excluding other causes)										
	Progression to metastatic disease (i.e. cancer spreading to other organs)										
	Local progression (i.e. cancer getting bigger or more advanced locally)										
	Symptomatic progression (i.e. cancer progressing locally to cause symptoms such as pelvic pain, bleeding in urine, difficulty in urinating, etc.)										
	Re-classification (i.e. coming off active surveillance for active curative treatment e.g. surgery or radiotherapy)										
	Urinary function (i.e. function relating to urinating)										
	Sexual function (i.e. function relating to erection, libido, ejaculation, etc.)										
	Overall quality of life (i.e. quality of life relating to general health and well-being)										
	Anxiety										
	Depression										

E. Domain 5: Additional statements or important outcomes included by survey participants **(\*NOTE asked to ALL PARTICIPANTS, INCLUDING PATIENTS)**



*ADC = apparent diffusion coefficient; BRAC2 = DNA repair associated gene; 3D-CRT= external beam radiotherapy three dimensional conformal radiotherapy; DRE = digital-rectal examination; ECOG = Eastern Cooperative Oncology Group (performance status); HCP = healthcare professional; HIFU = high intensity focussed ultrasound; IMRT = intensity modulated radiotherapy; ISUP = International Society of Urological Pathology; mpMRI = multi-parametric magnetic resonance imaging; PI-RADS = Prostate Imaging Reporting and Data System; PSA = prostate-specific antigen; TRUS = transrectal ultrasound; VMAT = Volumetric modulated arc therapy.*

### **Appendice 3: List of participants completing Rounds 1 and 2**

<b>Name</b>	<b>Role</b>	<b>Country of residence</b>
Monique Roobol	Epidemiologist	The Netherlands
Gwendolyn Hooper	Family and Urology nurse practitioner	United States
Russo Russo	Nurse specialist	Italy
Helen Attard Bason	Nurse specialist	Malta
Brian Corr	Nurse specialist	United Kingdom
Foroozan Atashzadeh-Shoorideh	Nursing associate professor	Iran
Alberto Bossi	Oncologist	France
Maria De Santis	Oncologist	Germany
Caroline Moore	Oncologist	United Kingdom
Chris Parker	Oncologist	United Kingdom
Silke Gillessen	Oncologist	United Kingdom, Switzerland
Ronald Chen	Oncologist	United States
Glen Kristiansen	Pathologist	Germany
Maurizio Colecchia	Pathologist	Italy
Arno Van Leenders	Pathologist	The Netherlands
Murali Varma	Pathologist	United Kingdom
Peter A. Humphrey	Pathologist	United States
Lawrence D. True	Pathologist	United States
Theo van der Kwast	Pathologist	the Netherlands, Canada
Brett Cox	Radiation oncologist	United States

Geert Villeirs	Radiologist	Belgium
Raphaele Renard-Penna	Radiologist	France
Olivio Donati	Radiologist	Switzerland
Anwar Padhani	Radiologist	United Kingdom
Francesco Giganti	Radiologist	United Kingdom
Olivier Rouvière	Radiologist	France
Stefano Fanti	Radiologist	Italy
Ivo Schoots	Radiologist	The Netherlands
Jonathan Richenberg	Radiologist	United Kingdom
Thomas M. Pisansky	Radiologist	United States
Tom Pickles	Radiation oncologist	Canada
Michel Bolla	Radiation oncologist	France
Thomas Wiegel	Radiation oncologist	Germany
Gemma Sancho-Pardo	Radiation oncologist	Spain
Malcolm D. Mason	Radiation oncologist	United Kingdom
Ann Henry	Radiation oncologist	United Kingdom
Mark Buyyounouski	Radiation oncologist	United States
John Yaxley	Urologist	Australia
Damien Bolton	Urologist	Australia
Niall Davis	Urologist	Australia
Mark Frydenberg	Urologist	Australia
Jeremy Grummet	Urologist	Australia
Declan Murphy	Urologist	Australia
Shomik Sengupta	Urologist	Australia
Philip Stricker	Urologist	Australia
Ian Vela	Urologist	Australia
Henry Woo	Urologist	Australia
Laurence Klotz	Urologist	Canada
Luke Lavallee	Urologist	Canada
Chris Morash	Urologist	Canada

Frederic Pouliot	Urologist	Canada
Patrick Richard	Urologist	Canada
Christopher Wallis	Urologist	Canada
Sebastien Crouzet	Urologist	France
Alexandre Ingels	Urologist	France
Jacques Irani	Urologist	France
Nicolas Mottet	Urologist	France
Nikolaos Grivas	Urologist	Greece
Michael Lardas	Urologist	Greece
Maurizio Brausi	Urologist	Italy
Paolo Dell'Oglio	Urologist	Italy
Giorgio Gandaglia	Urologist	Italy
Hiroshi Sasaki	Urologist	Japan
Antonio Alcaraz	Urologist	Spain
Maria J. Ribal	Urologist	Spain
Anders Bjartell	Urologist	Sweden
Christian Fankhauser	Urologist	Switzerland
Tobias Gross	Urologist	Switzerland
Yeong-Shiau PU	Urologist	Taiwan
Roderick van den Bergh	Urologist	The Netherlands
Max Bruins	Urologist	The Netherlands
Peter-Paul Willemse	Urologist	The Netherlands
Rakesh Heer	Urologist	United Kingdom
William Cross	Urologist	United Kingdom
James Donaldson	Urologist	United Kingdom
Thomas B. Lam	Urologist	United Kingdom
Matthew Liew	Urologist	United Kingdom
Karl Pang	Urologist	United Kingdom
Justine Royle	Urologist	United Kingdom
Hashim U. Ahmed	Urologist	United Kingdom

Philip Cornford	Urologist	United Kingdom
Marcus Cumberbatch	Urologist	United Kingdom
Alastair D. Lamb	Urologist	United Kingdom
James Eastham	Urologist	United States
Peter Albertsen	Urologist	United States
Daniel A. Barocas	Urologist	United States
Pail Crispen	Urologist	United States
Scott Eggener	Urologist	United States
Daniel Lin	Urologist	United States
Steven Joniau	Urologist	Belgium
Anil Kapoor	Urologist	Canada
Philippe Violette	Urologist	Canada
Derya Tilki	Urologist	Germany
Alberto Briganti	Urologist	Italy
Nicola Fossati	Urologist	Italy
Piotr Chlosta	Urologist	Poland
Chris Bangma	Urologist	The Netherlands
Michiel Sedelaar	Urologist	The Netherlands
Henk Van der Poel	Urologist	The Netherlands
Konstantinos Dimitropoulos	Urologist	United Kingdom
James N'Dow	Urologist	United Kingdom
Stacy Loeb	Urologist	United States
Lisa Moris	Urologist in training	Belgium
Thomas Van den Broeck	Urologist in training	Belgium
Catherine Paterson	Urology nurse consultant & Research fellow	United Kingdom
Sau-loi Ng	Urology specialist nurse	Hong Kong
Corinne Buckett	Urology specialist nurse	United Kingdom
Karen Wilkinson	Uro-oncology nurse specialist	United Kingdom

Patient ID	Prior treatment	Age	Country of residence	Current treatment
Patient #1	No active surveillance	61-70	Belgium	No Active surveillance
Patient #2	Active surveillance	51-60	The Netherlands	Active surveillance
Patient #3	Active surveillance	>70	United Kingdom	No active surveillance
Patient #4	No active surveillance	>70	Belgium	No active surveillance
Patient #5	No active surveillance		Belgium	No active surveillance
Patient #6	No Active surveillance	>70	Portugal	No Active surveillance
Patient #7	No active surveillance	61-70	Sweden	No active surveillance
Patient #8	No active surveillance	> 70	Switzerland	No active surveillance
Patient #9	Active surveillance	61-70	United Kingdom	Active surveillance
Patient #10	Active surveillance	> 70	United Kingdom	Active surveillance
Patient #11	Active surveillance	61-70	United Kingdom	No active surveillance
Patient #12	Active surveillance	> 70	United Kingdom	Active surveillance
Patient #13	Active surveillance	61-70	United Kingdom	Active surveillance
Patient #14	No active surveillance	>70	United Kingdom	No active surveillance
Patient #15	Active surveillance	>70	United Kingdom	Active surveillance
Patient #16	Active surveillance	51-60	United Kingdom	Active surveillance
Patient #17	No active surveillance	>70	United Kingdom	No active surveillance















