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Review - Prostatic Disease - Editor's Choice

EAU-EANM-ESTRO-ESUR-SIOG Prostate Cancer Guideline Panel Consensus Statements for Deferred Treatment with Curative Intent for Localised Prostate Cancer from an International Collaborative Study (DETECTIVE Study)

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Abstract

Background: There is uncertainty in deferred active treatment (DAT) programmes, regarding patient selection, follow-up and monitoring, reclassification, and which outcome measures should be prioritised.

Objective: To develop consensus statements for all domains of DAT.

Design, setting, and participants: A protocol-driven, three phase study was undertaken by the European Association of Urology (EAU)-European Association of Nuclear Medicine (EANM)-European Society for Radiotherapy and Oncology (ESTRO)-European Association of Urology Section of Urological Research (ESUR)-International Society of Geriatric Oncology (SIOG) Prostate Cancer Guideline Panel in conjunction with partner organisations, including the following: (1) a systematic review to describe heterogeneity across all domains; (2) a two-round Delphi survey involving a large, international panel of stakeholders, including healthcare practitioners (HCPs) and patients; and (3) a consensus group meeting attended by stakeholder group representatives. Robust methods regarding what constituted the consensus were strictly followed.

Results and limitations: A total of 109 HCPs and 16 patients completed both survey rounds. Of 129 statements in the survey, consensus was achieved in 66 (51%); the rest of the statements were discussed and voted on in the consensus meeting by 32 HCPs and three patients, where consensus was achieved in additional 27 statements (43%). Overall, 93 statements (72%) achieved consensus in the project. Some uncertainties remained regarding clinically important thresholds for disease extent on biopsy in low-risk disease, and the role of multiparametric magnetic resonance imaging in determining disease stage and aggressiveness as a criterion for inclusion and exclusion.

Conclusions: Consensus statements and the findings are expected to guide and inform routine clinical practice and research, until higher levels of evidence emerge through prospective comparative studies and clinical trials.

Patient summary: We undertook a project aimed at standardising the elements of practice in active surveillance programmes for early localised prostate cancer because currently there is great variation and uncertainty regarding how best to conduct them. The project involved large numbers of healthcare practitioners and patients using a survey and face-to-face meeting, in order to achieve agreement (ie, consensus) regarding best practice, which will provide guidance to clinicians and researchers.

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1. Introduction

Deferred treatment with curative intent (ie, deferred active treatment [DAT]) has emerged as a feasible alternative to standard radical interventions for low-risk localised prostate cancer [1-3]. This includes active surveillance or active monitoring, whereby patients are not curatively treated immediately but instead are reassessed and monitored at regular intervals, and involves a choice by a patient following counselling with their physician, and alternative treatment options may be considered at a future time point. Large, prospective studies are currently underway, and mediumterm outcomes appear to be promising [4,5]. However, clinical practice guidelines (CPGs) [6] often acknowledge the significant heterogeneity inherent in deferred treatment strategies, with protocols differing in patient eligibility, selection and recruitment, disease monitoring and reassessment, outcome definition and measurement, and triggers for reclassification and change in management. In short, there is uncertainty regarding the definition of eligible patients and the optimum follow-up strategies. Although attempts have been made to standardise definitions and terminology via consensus methods [7], there have been no successful projects that harness clinical and patient expertise aiming to standardise practice comprehensively.

Consequently, the European Association of Urology (EAU)-European Association of Nuclear Medicine (EANM)-

European Society for Radiotherapy and Oncology (ESTRO)-European Association of Urology Section of Urological Research (ESUR)-International Society of Geriatric Oncology (SIOG) Prostate Cancer Guideline Panel in conjunction with partner organisations (Supplementary material) commissioned and undertook a project to develop consensus statements for DAT. The project was unique and novel in its use of protocol-driven consensus methods [8]. The specific objectives were to achieve consensus on the following domains: (1) criteria for patient selection, inclusion, and exclusion; (2) nature and timing of investigations and assessments during monitoring and follow-up; (3) criteria and thresholds for reclassification and change in management; and (4) type of outcome measures that should be prioritised. The study findings will be incorporated into international CPGs issued by the EAU-EANM-ESTRO-ESUR-SIOG Prostate Cancer Guideline Panel and collaborators, and will guide and inform clinical practice and further research.

2. Material and methods

The protocol outlining the detailed methods underpinning the project has been published [8]. An overview of the study is depicted in Fig. 1. The project was divided into three phases, lasting 12 mo. Phase 1 was a systematic review of current DAT practice [9], the results of which are summarised in Tables 1–4 and the Supplementary material. The review

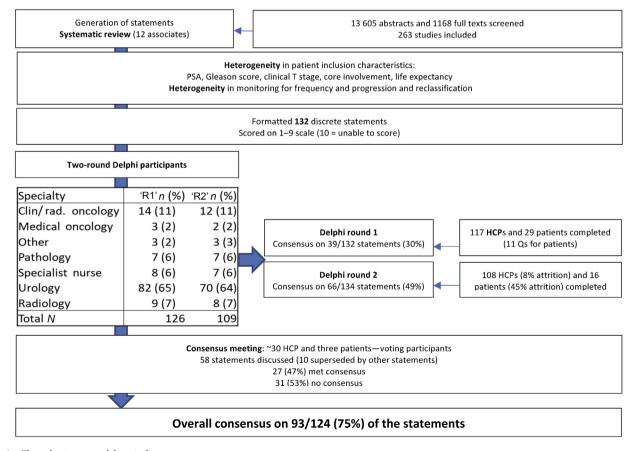


Fig. 1 – Flow chart summarising study.

Clin = clinical; HCP = healthcare professional; N = number; PSA = prostate-specific antigen; Q = question; rad. = radiation; R1 = round 1; R2 = round 2.

Table 1 – Summary of systematic review findings (total n = 282 studies): criteria within the domains of inclusion, monitoring, reclassification, and outcome measures

Domains	No. of different definitions	No. of studies providing definition for this criterion
Main criteria for inclusion to DAT		
PSA cut-off	13	251
Gleason sum score	13	282
Clinical T stage	14	275
Number of positive cores	12	270
Core involvement per core	11	270
PSA density	9	265
Monitoring and follow-up characteris	tics during DAT	
PSA testing frequency	23	193
DRE frequency	26	157
TRUS rebiopsy frequency	32	197
Number of cores taken	29	122
mpMRI frequency	24	74
Reclassification characteristics during	DAT	
Clinical T stage	13	89
Gleason sum score	13	202
PSA doubling time	5	86
Number of positive cores	13	147
Core involvement per core	8	122
Patient preference	2	58
Types of outcomes measured		
Quality of life	6	81
Sexual function	3	75
Survival outcome	3	114
Disease-specific outcome	15	221

DAT = deferred active treatment; DRE = digital rectal examination; mpMRI = multiparametric magnetic resonance imaging; No. = number; PSA = prostate-specific antigen; TRUS = transrectal ultrasound.

Table 2 - Summary of systematic review findings: most common combinations of inclusion criteria for DAT.

PSA level	Gleason score	Clinical T category	No. of positive cores	Core involvement (%)	PSA density	No. of studies
≤10	≤3+3	T1c-T2c	≤2	NR	<0.2	34
NR	≤3+3	T1c	≤2	< 50	< 0.15	13
≤10	≤3+3	≤T2a	≤3	≤50	NR	9
NR	≤3+3	NR	NR	NR	NR	7
≤10	≤3+3	≤T2c	≤2	NR	≤ 0.2	5
≤15	≤7	T1b-T2b	NR	NR	NR	5
<15	≤3+3	≤T2a	≤2	NR	NR	5
NR	≤3+3	≤T2a	≤2	≤20	NR	4

Table 3 - Summary of systematic review findings: most common combination of monitoring and follow-up characteristics during DAT.

PSA frequency	DRE frequency	TRUS rebiopsy frequency	Number of cores taken	mpMRI frequency	No. of studies
6/12	6/12	12/12	Multiple	Multiple	24
6/12	6/12	Multiple	Multiple	Multiple	18
3/12 for 2 yrs 6/12 thereafter	3/12 for 2 yr 6/12 thereafter	Multiple	Multiple	NR	11
3/12	6/12	Multiple	Multiple	NR	9
3/12 for 2 yr 6/12 thereafter	6/12 for 2 yr 12/12 thereafter	Multiple	Multiple	Multiple	6
3/12 1 st yr 6/12 thereafter	3/12 1 st yr 6/12 thereafter	Multiple	Multiple	NR	6
6/12	NR	12/12	Multiple	Multiple	6
3/12	3/12	12/12	NR	NR	5
3/12 1 st yr 6/12 thereafter	Multiple	Multiple	Multiple	NR	5
6-12/12	6-12/12	Multiple	Multiple	Multiple	5

findings were used to inform a list of statements, and organised into domains and subdomains reflecting the aspects of DAT (ie, patient eligibility and recruitment, follow-up and monitoring, reclassification, and outcome measures).

In phase 2, the list of statements was incorporated into an online questionnaire as part of a two-round iterative Delphi survey. An international panel of participants including healthcare practitioners (HCPs; ie, urologists, medical and clinical/radiation oncologists, radi-

Table 4 - Summary of systematic review findings: most common reclassification definitions during DAT.

DAT = deferred active treatment; GSS = Gleason score; NR = not recorded; PSA = prostate-specific antigen.

Gleason score	Clinical T category	PSA doubling time	No. of positive cores	Core involvement (%)	Patient preference	No. of studies
GSS >6	NR	NR	>2	>50	NR	14
Increase in GSS	Change in T stage	NR	NR	NR	NR	11
GSS >6	NR	NR	>3	>50%	NR	9
GSS >6	NR	NR	>2	>20%	NR	7
GSS >6	NR	NR	NR	NR	NR	7
Increase in GSS	Change in T-stage	NR	NR	Multiple	Yes	6
GSS >6	>T2	<3	>2	NR	NR	5
$GSS \ge \! 4 \! + \! 3$	≥T2c	<3	>3	NR	NR	4

ologists, pathologists, and specialist nurses) and patients were purposefully sampled to participate. The list of organisations that participated is included in the Supplementary material. These organisations were targeted owing to the expertise of their membership. Organisations provided participants by either nominating individuals or cascading the invitation to their entire membership. Informed consent was assumed if participants registered and completed the survey.

In the online questionnaire, participants were presented with statements and asked to rate their strength of agreement on a scale of 1 (strongly disagree) to 9 (strongly agree). Participants could also suggest additional statements for incorporation into the following round. In round 2, participants were provided with information regarding their own score from round 1 as well as a summary of the scores for the entire cohort, and could either revise or retain their original scores. Thresholds regarding what constituted "consensus agreement" and "consensus disagreement" were specified a priori [8]. "Consensus agreement" was defined as \geq 70% of participants scoring a statement as "strongly agree" (7-9) and <15% of participants scoring as "strongly disagree" (1-3). Conversely, "consensus disagreement" was defined as statements scored as "strongly disagree" (score 1–3) by \geq 70% of participants and "strongly agree" by <15% of participants (7-9). All other statements not falling in the above categories will be classified as equivocal. The decision to use 70% as a threshold was based on prior studies and consensus method research [10-13].

Phase 3 consisted of a 1-d face-to-face consensus group meeting attended by representatives from all stakeholder groups, and chaired by a nonvoting clinician and nonvoting methodologist. Participants were sampled from those who completed both rounds of the Delphi survey. All participants were provided with a personalised printout containing a reminder of how they scored each statement in both rounds of the Delphi, and were given the summary of group results for all statements. All statements not achieving consensus in phase 2 were discussed, reviewed, and voted upon by participants, using the same consensus thresholds from phase 2, using live voting software [8]. At the end of phase 3, a final list of consensus statements organised according to the domains of DAT were ratified by the consensus group participants and project steering group.

3. Results

3.1. Delphi survey

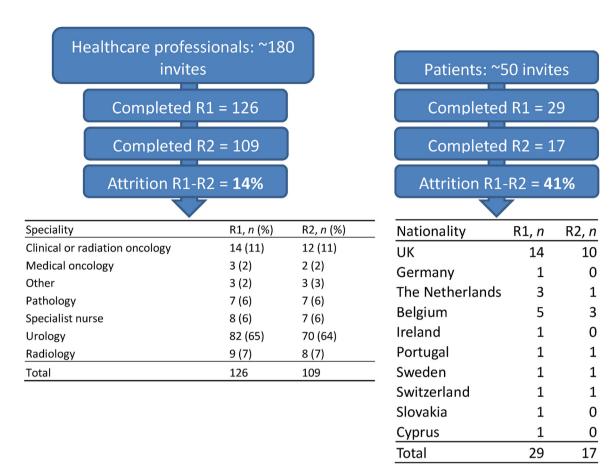
Round 1 of the Delphi survey was generated from the systematic review findings (Supplementary material). A total of 127 statements were organised under the following domains and subdomains: (1) patient eligibility, inclusion, and exclusion criteria: (a) age and life expectancy, (b) risk classification (including D'Amico or EAU risk groups, prostate-specific antigen [PSA] elements, Gleason sum

score/International Society of Urological Pathology grade group, clinical stage, etc.), (c) histopathological characteristics (including how biopsy is performed, extent of disease, etc.), and (d) imaging characteristics (including issues regarding multiparametric magnetic resonance imaging [mpMRI], etc.); (2) monitoring and follow-up criteria (including issues regarding frequency and nature of PSA testing, repeat biopsy, clinical examination by digital rectal examination, and imaging); (3) reclassification and change in management criteria and triggers: (a) patient characteristics, (b) PSA kinetics, (c) histopathology (including change in grade or disease extent), (d) clinical examination, (e) imaging, and (f) patient preference; and (4) outcome measures that must be prioritised in DAT programmes (including oncological, functional, and quality of life outcomes).

A total of 180 HCPs involved with DAT were identified through international specialist societies (Supplementary material) and invited to participate. Fifty patients identified through patient advocacy organisations (Supplementary material) were invited to complete the patient-relevant parts of the survey (ie, outcome measures that should be prioritised). Two additional statements suggested by the participants were added to the questionnaire in round 2 (Supplementary material), bringing the total number of statements to 129. In total, 126 HCPs (70% of those invited) and 29 patients (58% of those invited) completed round 1, and 109 HCPs (61% of those invited) and 17 patients (34% of those invited) completed both rounds of the survey. The attrition rates between rounds 1 and 2 were 14% for HCPs and 41% for patients. The supplementary material outlines the list of Delphi participants organised by the stakeholder group (ie, HCPs or patients), including details such as name, speciality, and country of residence for HCPs, and previous treatment, age, and country of residence for patients.

Table 5 summarises the characteristics of all Delphi participants completing both rounds of the survey, based on stakeholder groups, speciality (or relevant treatment for patients), age (for patients only), and country of residence. Table 6 summarises the survey results for all statements, organised according to consensus status (ie, consensus, near consensus, divergent opinions, or equivocal/unclear). In summary, there was consensus on 66 statements (51%) from the Delphi survey. The remaining 63 statements were brought forward for review, discussion, and voting in phase 3, to see if consensus could be achieved on them.

Table 5 - Summary of characteristics of Delphi participants completing round 1 (R1) and round 2 (R2).



3.2. Consensus group meeting

The consensus group meeting was held in Amsterdam, The Netherlands on November 9, 2018 during the 10th European Multidisciplinary Congress on Urological Cancers (ie, EMUC 2018). The meeting was attended by 35 voting participants (32 HCPs and three patients) and chaired by a nonvoting clinician and a nonvoting methodologist. Table 7 summarises the characteristics of consensus meeting participants based on stakeholder group, speciality, and country of residence. Table 8 summarises the results for all statements reviewed, discussed, and voted upon, organised according to consensus status "yes/no" (ie, in summary, 27/63 statements [43%] achieved consensus during the meeting).

3.3. Final consensus statements and recommendations from the DETECTIVE study

Table 9 summarises all the consensus statements obtained from all phases of the study. In total, 93 statements out of a total 129 (72%) achieved full consensus. The majority of these were achieved from the Delphi survey (71%), whilst the consensus group meeting contributed 29% to the

consensus statements. Of the consensus statements, 53% were "consensus agree", whilst 48% were "consensus disagree". Consensus was achieved in at least 65% of statements across all domains across the Delphi and consensus meeting process. Table 10 lists all clinical practice recommendations based on the consensus statements.

4. Discussion

4.1. Principal findings

This project explored and defined key areas of controversy and uncertainty covering all the main domains of DAT, a large undertaking not previously attempted on this scale using transparent methodology. A mixed method approach was used to investigate this pressing problem, incorporating a systematic review, a two-round Delphi survey, and a face-to-face consensus meeting with international participation from key stakeholders. The systematic review confirmed the scale and scope of the problem, highlighting significant heterogeneity, inconsistency, and variability in clinical practice across all domains in contemporary studies of DAT. Given such heterogeneity, it is not surprising to note that currently, there are no conclusive data on how different DAT

Table 6 – Summary of statements and consensus status after two rounds of Delphi survey. a,b

			Health care pr	ofessionals	(HCPs)					Patients		
Domain	Item number in Delphi and description	HCPs % disagree (1–3)	HCPs % equivocal (4–6)	HCPs % agree (7–9)	HCPs total N	HCPs unable to score N	Consensus	Patients % disagree (1–3)	Patients % equivocal (4–6)	Patients % agree (7–9)	Patients total N	Patients unable to score N
Patient eligibility, inclusion, and exclusion criteria. 1. Age and life	There is no lower or upper age limit for inclusion as long as the appropriate life expectancy criterion is fulfilled	3.7	0.9	95.4	109	0	1	NA	NA	NA	NA	NA
expectancy 1. Patient eligibility, inclusion, and exclusion criteria. 1. Age and life	2. The appropriate life expectancy criterion for inclusion is: (i) ≥10 yr	1.8	4.6	93.6	109	0	1	NA	NA	NA	NA	NA
expectancy 1. Patient eligibility, inclusion, and exclusion criteria. 1. Age and life expectancy	3. The appropriate life expectancy criterion for inclusion is: (ii) ≥15 yr	18.5	45.4	36.1	109	1	4	NA	NA	NA	NA	NA
1. Patient eligibility, inclusion, and exclusion criteria. 1. Age and life expectancy	Life expectancy in everyday practice is best evaluated by: (i) performance status (eg, ECOG, Karnofsky)	8.8	46.1	45.1	109	7	4	NA	NA	NA	NA	NA
Patient eligibility, inclusion, and exclusion criteria. 1. Age and life expectancy	Life expectancy in everyday practice is best evaluated by: (ii) comorbidity index measure (eg, Charlson)	5.1	38.4	56.6	109	10	3	NA	NA	NA	NA	NA
Patient eligibility, inclusion, and exclusion criteria. 1. Age and life expectancy	 Life expectancy in everyday practice is best evaluated by: (iii) Health status screening (eg, Geriatric 8 screening tool) 	6.5	45.2	48.4	109	16	4	NA	NA	NA	NA	NA
Patient eligibility, inclusion, and exclusion criteria. 1. Age and life expectancy	Life expectancy in everyday practice is best evaluated by: (iv) combination of performance status, comorbidity index, and health status screening	0.0	4.9	95.1	109	7	1	NA	NA	NA	NA	NA
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	Low-risk disease: (i) is an automatic inclusion criterion regardless of other disease factors	50.0	8.3	41.7	108	0	3	NA	NA	NA	NA	NA
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	Low-risk disease: (ii) is excluded if the extent of disease is high, based on blopsy core volume, length, or number or proportion of core positivity	28.7	8.3	63.0	108	0	3	NA	NA	NA	NA	NA
. Patient eligibility, iclusion, and exclusion riteria. 2. Risk lassification	Low-risk disease: (iii) is excluded if the extent and/or stage of disease is high based on mpMRI	14.8	21.3	63.9	108	0	2	NA	NA	NA	NA	
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	11. Low-risk disease: (iv) is excluded if mpMRI suggests biologically aggressive disease	17.8	21.5	60.7	108	1	2	NA	NA	NA	NA	
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	12. Gleason 3 + 4 = 7 (ISUP grade 2): (i) is an automatic exclusion criterion	69.4	18.5	12.0	108	0	2	NA	NA	NA	NA	. 1
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	13. Gleason 3 + 4 = 7 (ISUP grade 2): (ii) can be included only if favourable characteristics are present, including PSA (<10), clinical stage (<ct2a), (low="" and="" biopsy="" characteristics="" core<="" td=""><td>7.4</td><td>15.7</td><td>76.9</td><td>108</td><td>0</td><td>1</td><td>NA</td><td>NA</td><td>NA</td><td>NA</td><td></td></ct2a),>	7.4	15.7	76.9	108	0	1	NA	NA	NA	NA	
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	positivity) 14. Gleason 4 + 3 = 7 (ISUP grade 3): (i) is an automatic exclusion criterion	5.6	7.4	87.0	108	0	1	NA	NA	NA	NA	1
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	15. Gleason 4 + 3 = 7 (ISUP grade 3): (ii) can be included only if favourable characteristics are present, including PSA (<10), clinical stage (≤cT2a), and biopsy characteristics (low core positivity)	72.2	12.0	15.7	108	0	2	NA	NA	NA	NA	
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	PSA: (i) >10 ng/ml is an automatic exclusion criterion, regardless of other disease characteristics	78.7	13.9	7.4	108	0	1	NA	NA	NA	NA	. 1
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	17. PSA: (ii) >20 ng/ml is an automatic exclusion criterion, regardless of other disease characteristics	19.4	12.0	68.5	108	0	2	NA	NA	NA	NA	. N
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	18. PSA density: (i) is an important inclusion criterion	18.1	22.9	59.0	108	3	3	NA	NA	NA	NA	. N
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	19. PSA density: (ii) for inclusion should be ≤0.15 ng/ml/g	16.3	32.7	51.0	108	4	3	NA	NA	NA	NA	. N
Patient eligibility, clusion, and exclusion iteria. 2. Risk assification	20. PSA density: (iii) for inclusion should be ≤0.20 ng/ml/g	32.4	56.9	10.8	108	6	4	NA	NA	NA	NA	
assinication Patient eligibility, clusion, and exclusion riteria. 2. Risk assification	21. Clinical stage: (i) ≥T2b is an automatic exclusion criterion, regardless of other disease characteristics	38.0	36.1	25.9	108	0	4	NA	NA	NA	NA	N N

Patient eligibility, inclusion, and exclusion criteria. 2. Risk	 Clinical stage: (ii) ≥T2c is an automatic exclusion criterion, regardless of other disease 	17.6	8.3	74.1	108	0	2	NA	NA	NA	NA	N/
classification 3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology	characteristics 23. Targeted biopsies should be reported separately from systematic biopsies	0.0	0.0	100.0	108	0	1	NA	NA	NA	NA	N/
characteristics 3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology	24. The extent of disease should be reported in: (i) length (mm)	0.9	2.8	96.3	108	0	1	NA	NA	NA	NA	N/
characteristics 3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology	25. The extent of disease should be reported in (ii) % turnour volume (as a proportion of total volume of core)	5.6	7.4	87.0	108	0	1	NA	NA	NA	NA	N
characteristics 3. Patient eligibility, inclusion, and exclusion	26. ISUP grade (Gleason score) should be reported for each positive core	4.7	1.9	93.5	108	1		NA	NA	NA	NA	N.
criteria. 3. Pathology characteristics 3. Patient eligibility,	27. Percentage of Gleason pattern 4	1.9	1.9	96.3	108	1	1	NA	NA	NA	NA	N
inclusion, and exclusion criteria. 3. Pathology characteristics 3. Patient eligibility,	carcinoma should be provided for each biopsy site with Gleason score 7 carcinoma 28. Intraductal and cribriform histology							NA	NA	NA	NA	N
inclusion, and exclusion criteria. 3. Pathology characteristics	are exclusion criteria	1.0	10.5	88.6	108	3	1					
Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	29. When systematic biopsies are performed, the extent of disease based on histological characteristics (eg, core length, core volume, core positivity, etc.) is an important inclusion/exclusion criterion	2.8	6.5	90.7	108	0	1	NA	NA	NA	NA	N
Patient eligibility, inclusion, and exclusion criteria. 3. Pathology	30. Extent of disease on histology is important even for Gleason 3 + 3 = 6/ISUP grade 1 disease because it may	14.2	9.4	76.4	108	2	1	NA	NA	NA	NA	N
characteristics 3. Patient eligibility, inclusion, and exclusion	lead to patients being excluded 31. The threshold of disease extent beyond which patients are automatically	89.3	7.8	2.9	108	5	1	NA	NA	NA	NA	N
criteria. 3. Pathology characteristics	excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 3 = 6/ISUP grade 1 disease is: (i) core positivity >20%											
Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	32. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 3 = 6/ISUP grade 1 disease is: (ii) core	71.8	23.3	4.9	108	5	1	NA	NA	NA	NA	N
	positivity >33%											
Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	33. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 3 = 6/ISUP grade 1 disease is: (iii) core	58.3	11.7	30.1	108	5	3	NA	NA	NA	NA	N
Patient eligibility, inclusion, and exclusion	positivity ≥50% 34. The threshold of disease extent beyond which patients are automatically							NA	NA	NA	NA	N
criteria. 3. Pathology characteristics	excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 3 = 6/ISUP grade 1 disease is: (iv) positive cores >2	81.6	10.7	7.8	108	5	1					
Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	35. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 3 =	73.8	11.7	14.6	108	5	1	NA	NA	NA	NA	N
3. Patient eligibility,	6/ISUP grade 1 disease is: (v) positive cores >3 36. The threshold of disease extent							NA	NA	NA	NA	N
inclusion, and exclusion criteria. 3. Pathology characteristics	beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 3 = 6/ISUP grade 1 disease is: (vi) core	93.1	3.9	2.9	108	6	1					
Patient eligibility, inclusion, and exclusion criteria. Pathology characteristics	length >3 mm 37. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease	87.3	7.8	4.9	108	6	1	NA	NA	NA	NA	N
	characteristics for Gleason 3 + 3 = 6/ISUP grade 1 disease is: (vii) core length >5 mm											
Patient eligibility, inclusion, and exclusion	38. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 =	52.0	24.5	23.5	108	6	3	NA	NA	NA	NA	N
criteria. 3. Pathology characteristics				27.2	108	5	4	NA	NA	NA	NA	N
characteristics 3. Patient eligibility, inclusion, and exclusion	7/ISUP grade 2 disease is: (i) core positivity >20% 39. The threshold of disease extent beyond which patients are automatically	42.7	30.1	21.2								
characteristics 3. Patient eligibility,	7/ISUP grade 2 disease is: (i) core positivity >20% 39. The threshold of disease extent	42.7	30.1	27.2								

7/5/UP grade 2 diseases is: (iii) core positively, 250% 41. The threshot of disease extent beyond which patients are automatically excluded based on systematic biopsy characteristics of patients of the control of the	NA NA NA NA
characteristics of cleasan star-17/ISUP Grade 2 disease is: iv. Positive cores should be seen the control of cleasan star inclusion, and exclusion criteria. 3. Pathology characteristics for Gleason 3 + 4 = 71/ISUP grade 2 disease is: (vi) core length - 5 mm a. 3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics of Gleason 3 + 4 = 71/ISUP grade 2 disease is: (vi) core length - 5 mm a. 3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics of Gleason 3 + 4 = 71/ISUP grade 2 disease is: (vi) core length - 5 mm a. 3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics of Gleason 3 + 4 = 71/ISUP grade 2 disease is: (vi) core length - 5 mm a. 3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics for Gleason 3 + 4 = 71/ISUP grade 2 disease is: (vi) core length - 5 mm a. 4. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease criteristics for Gleason 3 + 4 = 71/ISUP grade 2 disease is: (vii) core length - 5 mm a. 4. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease criteria disease is: (vii) core length - 5 mm a. 5. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease criteria disease cri	NA NA
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics of Gleason 3 + 4 = 7/ISUP grade 2 disease is; (vi) core length - 3 mm 4. The threshold of disease extent beyond within patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is; (vi) core length - 3 mm 4. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is; (vi) core length - 3 mm 4. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is; (vi) core length - 5 mm 4. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless for Gleason 3 + 4 = 7/ISUP grade 2 disease is; (vii) core length - 5 mm 4. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is; (vii) core length - 5 mm 4. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease extent declared biopsic specifies of the disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is; (vii) core length - 5 mm 4. The threshold of disease extent disease exte	NA NA
7/ISUP grade 2 disease is: (v) positive cores >3 3. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 7/ISUP grade 2 disease is: (v) positive cores >3 3. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 7/ISUP grade 2 disease is: (vi) positive cores >3 43. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 is an automatic exclusion criteria. 4. Imaging characteristics 4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 5. 7. 22.6 71.7 108 2 1 NA	NA NA
criteria. 3. Pathology characteristics excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (vi) core length 3. mm 3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics 8. Pathology characteristics 9. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics 9. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics 9. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 9. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 9. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 9. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 9. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics 9. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics or of esses bed upon mpMRI images are performed, the number of positive cores is not an indicator of extent of disease or tumour or prostive cores is not an indicator of extent of disease extent because Gleason 3 + 4 = 7/ISUP grade 2 is an automatic exclusion criteria. 4. Imaging characteristics 9. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics or of essection of extent of disease exclusion and exclusion criteria. 4. Imaging indicator of extent of disease exclusion and exclusion criteria. 4. Imaging indicator of extent of disease exclusion and exclusion indicator of extent of disease exclusion in exclus	NA NA
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics 4.4. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics or Gleason 3 + 4 = 7/ISUP grade 2 disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of the religion or criteria. 3. Pathology characteristics 4. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 disease dis	NA NA
characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease extent beyond which patients are automatically excluded based on systematic biopsy characteristics regardless of other disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics or Gleason 3 + 4 = 7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 is an automatic exclusion, and exclusion criteria. I maging characteristics 4. Patient eligibility, 46. If a patient has had upfront mpMRI followed by systematic and targeted biopsies sheet is no need for confirmatory biopsies 4. Patient eligibility, inclusion, and exclusion criteria. I maging characteristics 4. Patient eligibility inclusion, and exclusion criteria. I maging characteristics 4. Patient eligibility inclusion, and exclusion criteria. I maging characteristics 4. Patient eligibility inclusion, and exclusion criteria. I maging characteristics inclusion corteria. I maging indicator of extent of disease exclusion and indicator of extent of disease extent munimber of positive cores is not an indicator of extent of disease extent munimber of positive cores is not an indicator of extent of disease extent munimber of positive cores is not an indicator of extent of disease extent munimatical extent of disease extent e	NA
inclusion, and exclusion criteria. 3. Pathology excluded based on systematic biopsy regardless of other disease characteristics or Gleason 3 + 4 = 7/ISUP grade 2 (siases is: (iii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 (siase) is: (iii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 (siase) is: (iii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 (siase) is: (iii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 (siase) is: (iii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 (siase) is: (iii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 (siase) is: (iii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 (siase) is: (iii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 (siase) is: (iii) any disease extent (because Gleason 3 + 4 = 7/ISUP grade 2 (siase) is: (iii) any disease extent (siase)	NA
4. Patient eligibility, del. if a patient has had upfront mpMRI inclusion, and exclusion criteria. 4. Imaging characteristics dictions, and exclusion mpMRI images are performed, the number of positive cores is not an indicator of extent of disease or tumour states. If a patient eligibility, and exclusion mpMRI images are performed, the number of positive cores is not an indicator of extent of disease or tumour states.	
4. Patient eligibility, 47. If targeted biopsies based upon 5.7 22.6 71.7 108 2 1 NA NA NA NA inclusion, and exclusion mpMRI images are performed, the criteria. 4. Imaging number of positive cores is not an characteristics indicator of extent of disease or tumour	NA
4. Patient eligibility, 48. The number of positive sextants inclusion, and exclusion based on systematic and/or targeted criteria. 4. Imaging biopsies should be taken into account characteristics as an indicator of tumour volume	NA
4. Patient eligibility, 49. The volume of the dominant lesion 2.8 12.1 85.0 108 1 1 NA NA NA NA NA	NA
inclusion, and exclusion seen on mpMRI (PI-RADS V2 ≥3) criteria. 4. Imaging should be taken into account as an characteristics indicator of tumour volume 4. Pathent eligibility, 50. For inclusion, prostate biopsies NA NA NA NA	NA
inclusion, and exclusion should be performed by: (i) mpMRI- criteria. 4. Imaging guided targeted biopsies (including in- characteristics bore, cognitive guidance, or mpMRI fusion) without systematic biopsies 1	
4. Patient eligibility, 51. For inclusion, prostate biopsies 2.8 3.7 93.5 108 1 1 NA NA NA NA inclusion, and exclusion should be performed by: (ii) mpMRI-criteria. 4. Imaging guided targeted biopsies (including incharacteristics bore, cognitive guidance, or mpMRI fusion) with systematic biopsies	NA
4. Patient eligibility, 52. For inclusion, prostate biopsies inclusion, and exclusion should be performed by: (iii) 71.0 23.4 5.6 108 1 characteristics of mpMRI-guided biopsies instead characteristics of mpMRI-guided biopsies	NA
4. Patient eligibility, 53. For inclusion, prostate biopsies rinclusion, and exclusion and exclusion should be performed by: (iv) TRUS-criteria. 4. Imaging guided systematic biopsies only characteristics	NA
4. Patient eligibility, 54. Tumour volume (for ≤T2 disease) inclusion, and exclusion based purely on mpMRI characteristics criteria. 4. Imaging is an important inclusion/exclusion characteristics criterion NA N	NA
4. Patient eligibility, 55. Disease aggressiveness (for ≤T2 51.9 33.0 15.1 108 2 3 NA NA NA inclusion, and exclusion disease; eg, low ADC value) based criteria. 4. Imaging purely on mpMRI characteristics is an characteristics important inclusion/exclusion criterion	NA
4. Patient eligibility, 56. For inclusion, all patients need inclusion, and exclusion mpMRI at some point 11.1 5.6 83.3 108 0 1 criteria. 4. Imaging characteristics	NA
5. Monitoring and follow-up 57. During active surveillance in the first 37.4 20.6 42.1 108 1 4 NA NA NA Criteria. 1. Monitoring and 2 yr, men should: (i) have their PSA follow-up checked every 3 mo	NA NA
5. Monitoring and follow-up 58. During active surveillance in the first orderia. 1. Monitoring and 2 yr, men should: (ii) have their PSA 13.1 6.5 80.4 108 1 1 follow-up 59. Monitoring and follow-up 59. During active surveillance in the first 100.0 0.0 0.0 108 1 1 NA NA NA NA NA NA	NA NA
criteria. 1. Monitoring and 2 yr, men should: (iii) have not checked follow-up their PSA at all 5. Monitoring and follow-up 60. During active surveillance after the NA	NA
criteria. 1. Monitoring and first 2 yr, men should: (i) have their PSA checked every 3 mo	NA
follow-up PSA checked every 6 mo PSA checked	NA

5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	63. During active surveillance, men should have a digital rectal examination (DRE)	9.3	6.5	84.1	108	1	1	NA	NA	NA	NA	NA
Monitoring and follow-up criteria. 1. Monitoring and follow-up	64. During active surveillance, men should have a DRE: (i) every 3 mo	94.4	5.6	0.0	108	1	1	NA	NA	NA	NA	NA
follow-up 5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	65. During active surveillance, men should have a DRE: (ii) every 6 mo	61.7	12.1	26.2	108	1	3	NA	NA	NA	NA	NA
Monitoring and follow-up criteria. 1. Monitoring and follow-up	66. During active surveillance, men should have a DRE: (iii) every 12 mo	16.8	14.0	69.2	108	1	2	NA	NA	NA	NA	NA
Monitoring and follow-up criteria. 1. Monitoring and follow-up	67. During active surveillance, men: need: not have a DRE	84.1	7.5	8.4	108	1	1					
Monitoring and follow-up criteria. 1. Monitoring and follow-up	68. During active surveillance, repeat biopsy should: (i) be performed every	79.4	9.3	11.2	108	1	1	NA	NA	NA	NA	NA
Monitoring and follow-up criteria. 1. Monitoring and	12 mo 69. During active surveillance, repeat biopsy should: (ii) be performed every	55.1	17.8	27.1	108	1	3	NA	NA	NA	NA	NA
follow-up 5. Monitoring and follow-up criteria. 1. Monitoring and	24 mo 70. During active surveillance, repeat biopsy should: (iii) be performed every	77.6	15.0	7.5	108	1	1	NA	NA	NA	NA	NA
follow-up 5. Monitoring and follow-up criteria. 1. Monitoring and	48 mo 71. During active surveillance, repeat biopsy should: (iv) be performed: (iv) at	20.8	26.4	52.8	108	2	3	NA	NA	NA	NA	NA
follow-up 5. Monitoring and follow-up criteria. 1. Monitoring and	1, 4, and 7 yr 72. During active surveillance, repeat biopsy should: (v) not be preplanned	62.6	9.3	28.0	108	1	3	NA	NA	NA	NA	NA
follow-up 5. Monitoring and follow-up criteria. 1. Monitoring and	routinely unless triggered 73. During active surveillance, repeat biopsy should be performed: (vi)	2.8	3.7	93.5	108	1	1	NA	NA	NA	NA	NA
follow-up	triggered by a change in mpMRI (ie, increase PI-RADS score, lesion volume or radiological T stage)											
 Monitoring and follow-up criteria. Monitoring and follow-up 	 During active surveillance, repeat biopsy should be performed: (vii) triggered by PSA doubling time <3 yr 	13.2	17.9	68.9	108	2	2	NA	NA	NA	NA	NA
Monitoring and follow-up criteria. 1. Monitoring and follow-up	 During active surveillance, repeat biopsy should be performed: (viii) triggered by DRE progression 	9.3	6.5	84.1	108	1	1	NA	NA	NA	NA	NA
Monitoring and follow-up criteria. 1. Monitoring and follow-up	76. If repeat biopsies are needed, they should be performed by: (i) 10–12-core TRUS guided	44.3	18.9	36.8	108	2	4	NA	NA	NA	NA	NA
Monitoring and follow-up criteria. 1. Monitoring and follow-up	77. If repeat biopsies are needed, they should be performed by: (ii) mpMRI- guided targeted biopsies (including in- bore, cognitive guidance, or mpMRI fusion) without systematic biopsies	70.1	13.1	16.8	108	1	2	NA	NA	NA	NA	NA
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	78. If repeat biopsies are needed, they should be performed by: (iii) mpMRI- guided targeted biopsies (including in- bore, cognitive guidance, or mpMRI	3.7	2.8	93.5	108	1	1	NA	NA	NA	NA	NA
	fusion) with systematic biopsies											
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	79. If repeat biopsies are needed, they should be performed by: (iv) transperineal template biopsies instead of mpMRI-auided biopsies	69.8	23.6	6.6	108	2	2	NA	NA	NA	NA	NA
Monitoring and follow-up criteria. 1. Monitoring and follow-up	80. If repeat biopsies are needed, they should be performed by: (v) TRUS- guided systematic biopsies	57.0	19.6	23.4	108	1	3	NA	NA	NA	NA	NA
lonow-up 6. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient characteristics	81. Reclassification should spely enly to patients with life expectancy of ≥10 yr at the time of assessment	7.6	7.6	84.8	108	3	1	NA	NA	NA	NA	NA
Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient characteristics	82. Reclassification should apply only to patients with life expectancy of ≥15 yr at the time of assessment	34.3	39.0	26.7	108	3	4	NA	NA	NA	NA	NA
Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient	83. Active surveillance should be continued only in patients with life expectancy of ≥10 yr	9.5	1.9	88.6	108	3	1	NA	NA	NA	NA	NA
characteristics 6. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient	84. Active surveillance should be continued only in patients with life expectancy of ≥15 yr	38.1	33.3	28.6	108	3	4	NA	NA	NA	NA	NA
characteristics 6. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient	85. Patient anxiety or depression is a valid reason for triggering reclassification (including active treatment)	6.5	9.3	84.1	108	1	1	NA	NA	NA	NA	NA
characteristics 6. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient	86. Patient reluctance to undergo repeat biopsies or repeat imaging is a valid reason for triggering reclassification (including active	17.8	18.7	63.6	108	1	2	NA	NA	NA	NA	NA
characteristics 7. Reclassification (ie, leaving active surveillance for an active treatment)	treatment) 87. PSA progression is sufficient to indicate reclassification in the absence of other factors	72.2	8.3	19.4	108	0	2	NA	NA	NA	NA	NA
criteria. 2. Based on PSA 7. Reclassification (ie, leaving active surveillance for an active treatment)	88. A rise in PSA mandates rebiopsy irrespective of other findings	66.7	14.8	18.5	108	0	2	NA	NA	NA	NA	NA
criteria. 2. Based on PSA 7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	89. A rise in PSA mandates reimaging of the patient	19.4	14.8	65.7	108	0	2	NA	NA	NA	NA	NA

or an active treatment)	the absence of other factors											
riteria. 2. Based on PSA			05.5		400							
'. Reclassification (ie, eaving active surveillance	 Shortening of PSA doubling time: (ii) should indicate reclassification only if it 	39.6	25.5	34.9	108	2	4	NA	NA	NA	NA	N
or an active treatment)	falls below a defined threshold											
riteria. 2. Based on PSA 7. Reclassification (ie,	92. Shortening of PSA doubling time:							NA	NA	NA	NA	N
eaving active surveillance	(iii) of <36 mo indicates reclassification	65.7	30.5	3.8	108	3		101	101	101	100	
or an active treatment) criteria. 2. Based on PSA		00.7	30.3	5.0	100	3	2					
. Reclassification (ie,	93. Shortening of PSA doubling time:	47.6	23.8	28.6	108	3	4	NA	NA	NA	NA	N
eaving active surveillance	(iv) of <24 mo indicates reclassification											
or an active treatment) criteria. 2. Based on PSA												
'. Reclassification (ie,	94. Shortening of PSA doubling time:							NA	NA	NA	NA	N.
eaving active surveillance or an active treatment)	(v) even if minimal, would indicate reclassification if accompanied by other	62.3	30.2	7.5	108	2	2					
riteria. 2. Based on PSA	PSA-based parameter changes						2					
'. Reclassification (ie,	95. A rise in PSA above an absolute	67.0	14.2	18.9	108	2	2	NA	NA	NA	NA	N
eaving active surveillance or an active treatment)	threshold: (i) of >10 would indicate reclassification											
riteria. 2. Based on PSA												
. Reclassification (ie,	96. A rise in PSA above an absolute							NA	NA	NA	NA	N
aving active surveillance or an active treatment)	threshold: (ii) of >20 would indicate reclassification	24.5	11.3	64.2	108	2	3					
riteria. 2. Based on PSA												
. Reclassification (ie, eaving active surveillance	 A PSA velocity: (i) of >0.75/yr would indicate reclassification 	62.7	36.3	1.0	108	6	2	NA	NA	NA	NA	Ν
r an active treatment)	indicate reclassification											
iteria. 2. Based on PSA												
Reclassification (ie, aving active surveillance	 A PSA velocity: (ii) of >1.0/yr would indicate reclassification 							NA	NA	NA	NA	Ν
r an active treatment)	maidate rediassification	52.9	37.3	9.8	108	6	3					
iteria. 2. Based on PSA	00 As issues is BOA dessits (i) is	70.5	07.0	4.0	400	0		NA	NA	NIA	NIA.	
Reclassification (ie, aving active surveillance	 An increase in PSA density: (i) is sufficient to indicate reclassification in 	70.5	27.6	1.9	108	3	1	NA	NA	NA	NA	1
r an active treatment)	the absence of other factors											
iteria. 2. Based on PSA	100 An ingresses in DCA density (ii)							NA	NA	NIA	NA	
Reclassification (ie, aving active surveillance	 An increase in PSA density: (ii) would indicate reclassification if 	40.0	40.0	0.0	400	0		NA	NA	NA	NA	١
r an active treatment)	accompanied by other PSA-based	42.9	48.6	8.6	108	3	4					
iteria. 2. Based on PSA Reclassification (ie,	parameter changes 101. A change in PSA parameters,	0.9	0.0	99.1	108	1	1	NA	NA	NA	NA	1
aving active surveillance	which by itself is not sufficient, would	0.5	0.0	33.1	100	'	'	INA	INA	INA	IVA	'
r an active treatment)	indicate reclassification if accompanied											
iteria. 2. Based on PSA Reclassification (ie,	by: (i) changes in histology 102. A change in PSA parameters,							NA	NA	NA	NA	١
aving active surveillance	which by itself is not sufficient, would	10.3	20.6	69.2	108	1		101	1471	107	1471	
r an active treatment)	indicate reclassification if accompanied	10.5	20.0	03.2	100	,	2					
iteria. 2. Based on PSA Reclassification (ie,	by: (ii) changes in imaging 103. A higher Gleason score (or ISUP	15.9	3.7	80.4	108	1	2	NA	NA	NA	NA	-
aving active surveillance or an active treatment)	grade) on rebiopsy is required for reclassification											
iteria. 3. Based on stopathology grade												
Reclassification (ie, aving active surveillance	104. An increase in the number of											
aving active surveillance								NA	NA	NA	NA	1
r an active treatment)	positive cores on rebiopsy: (i) indicates reclassification (ie, no threshold	65.7	19.4	14.8	108	0		NA	NA	NA	NA	1
iteria. 4. Based on	positive cores on rebiopsy: (i) indicates reclassification (ie, no threshold needed)	65.7	19.4	14.8	108	0	2	NA	NA	NA	NA	1
iteria. 4. Based on stopathology extent	reclassification (ie, no threshold needed)											
iteria. 4. Based on stopathology extent Reclassification (ie,	reclassification (ie, no threshold needed) 105. An increase in the number of	65.7 58.3	19.4 29.6	14.8 12.0	108 108	0	2	NA NA	NA NA	NA NA	NA NA	
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leaving active surveillance for an active treatment) criteria. 5. Based on clinical	114. An increase in the clinical T category based on DRE, as the sole criterion: (iii) if increase to cT2c indicates reclassification	31.8	5.6	62.6	108	1	3	NA	NA	NA	NA	N
extent 11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on	115. Radiological evidence of disease progression is sufficient to reclassify in the absence of other factors	62.6	15.0	22.4	108	1	3	NA	NA	NA	NA	N.
imaging 11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on	116. Radiological evidence of progression mandates an image- directed biopsy	0.9	4.7	94.4	108	1	1	NA	NA	NA	NA	N.
imaging 11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on	117. A new focus of cancer on repeat imaging indicates reclassification: (i) always	75.7	19.6	4.7	108	1	1	NA	NA	NA	NA	N
imaging 11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on	118. A new focus of cancer on repeat imaging indicates reclassification: (ii) only if accompanied by a rebiopsy	0.9	4.7	94.4	108	1	1	NA	NA	NA	NA	N.
imaging 11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on	119. Increase in tumour volume (for ≤T2 disease) on imaging alone (ie, in the absence of rebiopsy, PSA, etc.) indicates reclassification	72.0	21.5	6.5	108	1	1	NA	NA	NA	NA	N
imaging 11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on imaging	120. An increase in the PI-RADS score indicates reclassification in the absence of other features	73.6	16.0	10.4	108	2	1	NA	NA	NA	NA	N
12. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 7. Based on patient preference	121. Patient preference to switch to active treatment, regardless of other factors, should trigger reclassification	5.6	8.4	86.0	108	1	1	NA	NA	NA	NA	N
Outcome measures: primary outcome measures that must be measured and prioritised by all active surveillance programmes	122. Overall survival (le, how long you live, between your diagnosis and dying from any cause) is a critically important outcome for clinicians to measure for men on active surveillance	2.8	0.9	96.3	108	0	1	6%	19%	75%	16	(
13. Outcome measures: primary outcome measures that must be measured and prioritised by all active surveillance programmes	123. Prostate cancer–specific survival (ie, how long you live, between your diagnosis and dying from prostate cancer) is a critically important outcome to measure for men on active	1.9	0.0	98.1	108	0	1	6%	19%	75%	16	
13. Outcome measures: primary outcome measures	surveillance 124. Progression to metastatic disease (ie, your cancer spreading to other	0.0	0.9	99.1	108	0	1	6%	0%	94%	16	
that must be measured and	organs) is a critically important systems											
prioritised by all active	organs) is a critically important outcome to measure for men on active											
surveillance programmes 13. Outcome measures: primary outcome measures that must be measured and prioritised by all active	to grains is a critically important outcome to measure for men on active surveillance 125. Local progression (ie, your cancer getting bigger or more advanced locally) is a critically important outcome to measure for men on active surveillance	1.9	10.2	88.0	108	0	1	0%	0%	100%	16	0
surveillance programmes 13. Outcome measures: primary outcome measures that must be measured and	to measure for men on active survillance 125. Local progression (le, your cancer petting bigger or more advanced locally) is a critically important outcome to measure for men on active survillance 126. Symptomatic progression (le, your cancer progressing locally to cause symptoms such as pain, beleding in urine, difficulty in urinating, etc.) is a critically important outcome to measure	1.9	10.2	88.0 98.1	108	0	1	0%	0%	100%	16	0
surveillance programmes 13. Outcome measures: primary outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measures	to measure for men on active survillance 125. Local progression (le, your cancer gelting bigger or more advanced locally) is a critically important outcome to measure for men on active surveillance 126. Symphomatic progression (le, your cancer progressing locally to cause symphoms such as pain, bleeding in united, difficulty inurbality, etc.) is a critically important outcome to measure for men on active surveillance to active curative treatment, e.g. surgery or radiotherapy) is a critically important outcome in the surveillance to active curative treatment, e.g. surgery or radiotherapy) is a critically important outcome.											
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surveillance programmes 13. Outcome measures primary outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measured and prioritised by all active surveillance programmes that must be measured and prioritised by all active surveillance programmes 13. Outcome measures primary outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures primary outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measured and prioritised by all active primary outcome measures that must be measured and prioritised by all active primary outcome measures that must be measured and prioritised by all active primary outcome measures that must be measured and prioritised by all active primary outcome measures that must be measured and prioritised by all active primary outcome measures and prioritised by all active primary outcome measures that must be measured and prioritised by all active primary outcome measures that must be measured and prioritised by all active primary outcomes primary outco	to measure for men on active survillance 125. Local progression (le, your cancer getting bigger or more advanced locally) is a critically important outcome to measure for men on active survillance 126. Symptomatic progressing locally to cause symptoms such as pain, beleding in a critically important outcome to measure for men on active survillance 127. Reclassification (le, switching from active survillance to active curative treatment, e.g. surgery or radiotherapy) is a critically important outcome to measure for men on active survillance to active curative treatment, e.g. surgery or radiotherapy is a critically important outcome to measure for men on active survillance to leasure for men on active survillance 128. Urinary function (le, problems relating to passing urine) is a critically important outcome to measure for men on active survillance in the survival of	0.0	1.9	98.1 96.3	108	0	1	0%	0%	100%	16	0
surveillance programmes 13. Outcome measures primary outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measured and prioritised by all active surveillance programmes that must be measured and prioritised by all active surveillance programmes that must be measured and prioritised by all active surveillance programmes 13. Outcome measures primary outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures primary outcome measures 13. Outcome measures primary outcome measures 13. Outcome measures 14. Outcome measures 15. Outcome measures 16. Outcome measures 17. Outcome measures 18. Outcome measures 19. Outcome 19. Outc	to measure for men on active survillance 125. Local progression (le, your cancer getting bigger or more advanced locally) is a critically important outcome to measure for men on active survillance 126. Symptomatic progression (le, your cancer progressing locally to cause symptoms such as pain, bleeding in urine, difficulty in urinating, etc.) is a critically important outcome to measure for men on active surveillance 127. Reclassification (le, switching from active surveillance to active curative treatment, eg. surgery or radiotherapy) is a critically important outcome to measure for men on active surveillance 128. Urinary function (le, problems relating to person jumple) is a critically important outcome to measure for men on active surveillance 128. Sexual function (le, problems relating to person, pulso, ejaculation, etc.) is a critically important outcome to measure for men on active surveillance 130. Overall quality of life (le, satisfaction with general health and well-being) is a critically important outcome to measure for men on active surveillance 130. Overall quality of life (le, satisfaction with general health and well-being) is a critically important outcome to measure for men on active surveillance	0.0	1.9 3.7 11.1	98.1 96.3 86.1	108 108 108	0 0 0	1	0% 0%	0% 6% 13%	100% 94% 87%	16 16	0 0 1
surveillance programmes 13. Outcome measures primary outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measures primary outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures that must be measured and prioritised by all active surveillance programmes 13. Outcome measures primary outcome measures primary outcome primary outcome programmes 13. Outcome programmes 14. Outcome programmes 15. Outcome programmes 16. Outcome programmes 17. Outcome programmes 18. Outcome program	to measure for men on active survillance 125. Local progression (le, your cancer getting bigger or more advanced locally) is a critically important outcome to measure for men on active survillance 126. Symptomatic progressing locally to cause symptoms such as pain, bedering in active survillance of the survival survi	0.0 0.0 2.8 1.9 0.0	1.9 3.7 11.1 12.0 0.9	98.1 96.3 86.1 99.1	108 108 108 108	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 2 1 1	0% 0% 0% 7% 7%	0% 6% 13% 27% 0%	100% 94% 87% 67%	16 16 16 16	0 0 1 1 1 1 1
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ADC = apparent diffusion coefficient; BRAC2 = DNA repair associated gene; DRE = digital-rectal examination; ECOG = Eastern Cooperative Oncology Group (performance status); GSS=Gleason score; HCP=healthcare professional; ISUP=International Society of Urological Pathology; mpMRI=multi-parametric magnetic resonance imaging; N = number; NA = not applicable; PI-RADS = Prostate Imaging Reporting and Data System; PSA = prostate-specific antigen; R2 = round 2; R3 = round 3; TRUS = transrectal ultrasound.

^aIn columns showing percentages agree/equivocal/disagree, red shaded cells indicate ≥70% and yellow shaded cells indicate 60–70%. ^bIn "consensus" column:

Consensus (≥70% agree and ≤15% disagree, or vice versa). No further discussion required, not taken forward to face-to-face meeting.

Near consensus (≥70% agree but ≥15% disagree, or vice versa); or ≥60% agree, and ≤20% disagree, or vice versa). Taken forward to discuss and vote in face-to-face meeting.

Divergent opinions (eg, >50% agree and >25% disagree). Taken forward to discuss and vote in face-to-face meeting.

Equivocal or unclear results (eg, not >50% in any cell; or majority equivocal). Taken forward to discuss and vote in face-to-face meeting.

Table 7 - Summary of characteristics of consensus meeting participants.

Name	Role	Country of residence
Erik Briers	Patient	Belgium
Christopher Wallis	Urologista	Canada
Philippe Violette	Urologist	Canada
Jacques Irani	Chair (urologist)	France
Alberto Bossi	Oncologist	France
Olivier Rouvière	Radiologist	France
Raphaele Renard-Penna	Radiologist	France
Nicolas Mottet	Urologist	France
Thomas Wiegel	Radiation oncologist	Germany
Derya Tilki	Urologist	Germany
Michael Lardas	Urologist	Greece
Nikolaos Grivas	Urologist	Greece
Maurizio Colecchia	Pathologist	Italy
Giorgio Gandaglia	Urologist	Italy
Alberto Briganti	Urologist	Italy
Maria J Ribal	Urologist	Spain
Anders Bjartell	Urologist	Sweden
Christian Fankhauser	Urologist	Switzerland
Monique Roobol	Epidemiologist	The Netherlands
Arno Van Leenders	Pathologist	The Netherlands
Ruud Baanders	Patient	The Netherlands
Ivo Schoots	Radiologist	The Netherlands
Peter-Paul Willemse	Urologist	The Netherlands
Michiel Sedelaar	Urologist	The Netherlands
Chris Bangma	Urologist	The Netherlands
Theo van der Kwast	Pathologist	The Netherlands/Canada
Jeff Davies	Patient	UK
Jonathan Richenberg	Radiologist	UK
Malcolm Mason	Radiotherapist	UK
Thomas Lam	Urologist	UK
James N'Dow	Urologist	UK
Catherine Paterson	Urology nurse consultant and research fellow	UK
Karen Wilkinson	Uro-oncology nurse specialist	UK
Steven MacLennan	Chair (methodologist)	UK
Philip Cornford	Urologist	UK
Silke Gillessen	Oncologist	UK/Switzerland
Brett Cox	Radiation oncologist	USA

strategies compare with one another and which strategy, definition, and threshold should be adopted in clinical practice and clinical trials. Although several seminal randomised controlled trials investigating the effectiveness of observation [1,2] or active monitoring [3] as a management strategy for localised prostate cancer in comparison with active curative treatment have been published, these studies do not represent current practice of DAT, which has continued to evolve over the past 15 yr, especially with the introduction of new technology such as mpMRI scan into the patient care pathway, changes in the reporting of prostate cancer grade, and more accurate ways of performing prostate biopsies (including MRI-targeted biopsies or transperineal template biopsies). There is, therefore, an urgent need to provide guidance to clinicians, patients, researchers, and policymakers, and in the absence of high levels of evidence, the only available option is to issue consensus statements using robust, transparent, and reproducible methods. Our project set out to achieve this objective, and ultimately consensus was achieved in >72% of statements covering all the domains of DAT; the results will provide the basis for international guidance and drive the research agenda for the immediate future. The main recommendations based on the consensus statements are listed in Table 10.

4.2. Relevance and impact of study findings on clinical practice and research

Our study, with participation from HCPs and patients, has provided the basis for conduct of DAT. Consensus statements represent the lowest level of evidence (ie, level 5) on the evidence-based medicine hierarchy [14], but in areas where there is low certainty and conflicting evidence, they represent a pragmatic basis for interim guidance. Consensus statements should be regarded as a starting point for clinicians and researchers to guide studies that will provide higher-quality evidence and increase certainty. Evidence is never complete; it is ever evolving, and correspondingly recommendations require updating as necessary. Using our consensus statements as a basis for informing and guiding the conduct of DAT, there is a need for clinicians to prospectively collect and audit data on DAT in routine clinical practice, and for researchers and trialists to conduct clinical trials or prospective comparative studies so that clinical effectiveness data can be obtained. In this context, initiatives such as PIONEER [15] and the Movember Foundation's Global Action Plan Active Surveillance (GAP3) project, which aims to establish a global prospective database [16], represent important initial steps.

Table 8 – Consensus meeting: summary of statements discussed, reviewed, and voted upon, and consensus status—consensus (yes/no/not voted^a).

Domain	Item number from Delphi and description	% Disagree (1–3)	% Equivocal (4–6)	% Agree (7–9)	Total N	Consensus yes/no/not voted
Patient eligibility, inclusion, and exclusion criteria. Age and life expectancy	3. The appropriate life expectancy criterion for inclusion is: (ii) \geq 15 yr	0	0	0	NA	Not voted
 Patient eligibility, inclusion, and exclusion 	4. Life expectancy in everyday practice is best evaluated by: (i)	0	0	0	NA	Not voted
criteria. 1. Age and life expectancy 1. Patient eligibility, inclusion, and exclusion	performance status (eg, ECOG, Karnofsky) 5. Life expectancy in everyday practice is best evaluated by: (ii)	0	0	0	NA	Not voted
criteria. 1. Age and life expectancy 1. Patient eligibility, inclusion, and exclusion	comorbidity index measure (eg, Charlson) 6. Life expectancy in everyday practice is best evaluated by: (iii) health	0	0	0	NA	Not voted
criteria. 1. Age and life expectancy	status screening (eg, Geriatric 8 screening tool)	0	0	0		
Patient eligibility, inclusion, and exclusion criteria.Risk classification	Low-risk disease: (i) is an automatic inclusion criterion regardless of other disease factors				NA	Not voted
Patient eligibility, inclusion, and exclusion criteria.Risk classification	Low-risk disease: (ii) is excluded if the extent of disease is high, based on biopsy core volume, length, or number or proportion of core positivity	46	15	39	28	No
Patient eligibility, inclusion, and exclusion	 Low-risk disease: (iii) is excluded if the extent and/or stage of disease is high based on mpMRI 	7	9	84	30	Yes
criteria. 2. Risk classification 2. Patient eligibility, inclusion, and exclusion	11. Low-risk disease: (iv) is excluded if mpMRI suggests biologically	23	27	50	30	No
criteria. 2. Risk classification 2. Patient eligibility, inclusion, and exclusion	aggressive disease 12. Gleason 3 + 4 = 7 (ISUP grade 2): (i) is an automatic exclusion	80	6	13	29	Yes
criteria. 2. Risk classification 2. Patient eligibility, inclusion, and exclusion	criterion 15. Gleason 4 + 3 = 7 (ISUP grade 3): (ii) can be included only if	97	3	0	27	Yes
criteria. 2. Risk classification	favourable characteristics are present, including PSA (<10), clinical stage (≤cT2a), and biopsy characteristics (low core positivity)					
Patient eligibility, inclusion, and exclusion criteria. Risk classification	 PSA: (ii) >20 ng/ml is an automatic exclusion criterion, regardless of other disease characteristics 	55	0	45	29	No
2. Patient eligibility, inclusion, and exclusion	18. PSA density: (i) is an important inclusion criterion	7	15	78	28	Yes
criteria. 2. Risk classification 2. Patient eligibility, inclusion, and exclusion	19. PSA density: (ii) for inclusion should be ≤0.15 ng/ml/g	12	24	64	24	No
criteria. 2. Risk classification 2. Patient eligibility, inclusion, and exclusion	20. PSA density: (iii) for inclusion should be ≤0.20 ng/ml/g	52	32	16	25	No
criteria. 2. Risk classification						
Patient eligibility, inclusion, and exclusion criteria.Risk classification	 Clinical stage: (i) \(\geq T2b \) is an automatic exclusion criterion, regardless of other disease characteristics 	78	9	13	23	Yes
Patient eligibility, inclusion, and exclusion criteria.Risk classification	 Clinical stage: (ii) ≥T2c is an automatic exclusion criterion, regardless of other disease characteristics 	8	0	92	26	Yes
Patient eligibility, inclusion, and exclusion criteria. Pathology characteristics	33. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 3 = 6/ISUP grade 1 disease is: (iii)	92	4	4	23	Yes
Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	core positivity ≥50% 38. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other	64	18	18	28	No
	disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (i) core positivity >20%					
Patient eligibility, inclusion, and exclusion criteria. Pathology characteristics	39. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (ii) core positivity > 33%	48	24	28	25	No
3. Patient eligibility, inclusion, and exclusion	disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (iii) core positivity ≥50% 41. The threshold of disease extent beyond which patients are	34	18	48	27	No
criteria. 3. Pathology characteristics	automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (iv) positive cores >2 42. The threshold of disease extent beyond which patients are	30	19	51	27	No
Patient eligibility, inclusion, and exclusion criteria. Pathology characteristics	42. The threshold of usease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (v) positive cores >3	30	19	51	21	No
Patient eligibility, inclusion, and exclusion criteria. Pathology characteristics	43. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is: (vi) core length >3 mm	64	24	12	25	No
Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	44. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 4 = 7/ISUP grade 2 disease is:	50	27	23	26	No
4. Patient eligibility, inclusion, and exclusion	(vii) core length >5 mm 46. If a patient has had upfront mpMRI followed by systematic and	10	8	82	28	Yes
criteria. 4. Imaging characteristics 4. Patient eligibility, inclusion, and exclusion	targeted biopsies, there is no need for confirmatory biopsies 54. Tumour volume (for ≤T2 disease) based purely on mpMRI	68	0	32	25	No
criteria. 4. Imaging characteristics	characteristics is an important inclusion/exclusion criterion					
Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	55. Disease aggressiveness (for ≤T2 disease; eg, low ADC value) based purely on mpMRI characteristics is an important inclusion/exclusion criterion	74	14	12	27	Yes
Monitoring and follow-up criteria. 1. Monitoring and follow-up	57. During active surveillance in the first 2 yr, men should have their PSA checked: (i) every 3 mo	27	10	63	29	No
5. Monitoring and follow-up criteria. 1. Monitoring	65. During active surveillance, men should have a digital rectal	79	4	17	28	No
and follow-up 5. Monitoring and follow-up criteria. 1. Monitoring	examination (DRE): (ii) every 6 mo 66. During active surveillance, men should have a DRE: (iii) every 12 mo	10	17	72	29	Yes
and follow-up 5. Monitoring and follow-up criteria. 1. Monitoring	69. During active surveillance, repeat biopsy should be performed: (ii)	73	10	17	30	No
and follow-up	every 24 mo					
Monitoring and follow-up criteria. 1. Monitoring and follow-up	71. During active surveillance, repeat biopsy should be performed: (iv) at 1, 4, and 7 yr	22	30	48	27	No
Monitoring and follow-up criteria. 1. Monitoring and follow-up	72. During active surveillance, repeat biopsy should be performed: (v) not	59	6	35	29	No
5. Monitoring and follow-up criteria. 1. Monitoring	routinely re-planned unless triggered 74. During active surveillance, repeat biopsy should be performed: (vii)	18	19	64	28	No
and follow-up 5. Monitoring and follow-up criteria. 1. Monitoring	triggered by PSA doubling time <3 yr 76. If repeat biopsies are needed, they should be performed by: (i) 10–12-	0	0	0	NA	Not voted
and follow-up 5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	core TRUS guided 77. If repeat biopsies are needed, they should be performed by: (ii) mpMRI-guided targeted biopsies (including in-bore, cognitive guidance, or	81	3	16	30	No
Monitoring and follow-up criteria. 1. Monitoring	mpMRI fusion) without systematic biopsies 79. If repeat biopsies are needed, they should be performed by: (iv)	90	10	0	29	Yes
and follow-up 5. Monitoring and follow-up criteria. 1. Monitoring	transperineal template biopsies instead of mpMRI-guided biopsies 80. If repeat biopsies are needed, they should be performed by: (v) TRUS-	0	0	0	NA	Not voted
and follow-up 6. Reclassification (ie, leaving active surveillance	guided systematic biopsies					
	82. Reclassification should apply only to patients with life expectancy of	0	0	0	NA	Not voted

	84. Active surveillance should be continued only in patients with life expectancy of ≥15 yr	0	0	0	NA	Not voted
6. Reclassification (ie leaving active surveillance for an active treatment) criteria. 1. Based on	86. Patient reluctance to undergo repeat biopsies or repeat imaging is a valid reason for triggering reclassification (including active treatment)	11	11	78	28	Yes
	87. PSA progression is sufficient to indicate reclassification in the absence	84	3	13	31	Yes
	of other factors 88. A rise in PSA mandates rebiopsy irrespective of other findings.	89	0	11%	28	Yes
	89. A rise in PSA mandates reimaging of the patient.	47	11	42	28	No
7. Reclassification (ie, leaving active surveillance	90. Shortening of PSA doubling time: (i) is sufficient to indicate reclassification in the absence of other factors	86	6	8	29	Yes
7. Reclassification (ie, leaving active surveillance	91. Shortening of PSA doubling time: (ii) should indicate reclassification only if it falls below a defined threshold	38	16	46	26	No
7. Reclassification (ie, leaving active surveillance	92. Shortening of PSA doubling time: (iii) of <36 mo indicates reclassification	92	4	4	28	Yes
7. Reclassification (ie, leaving active surveillance	93. Shortening of PSA doubling time: (iv) of <24 mo indicates reclassification	0	0	0	NA	Not voted
7. Reclassification (ie, leaving active surveillance	94. Shortening of PSA doubling time: (v) even if minimal would indicate reclassification if accompanied by other PSA-based parameter changes	96	4	0	25	Yes
7. Reclassification (ie, leaving active surveillance	95. A rise in PSA above an absolute threshold: (i) of >10 would indicate reclassification	86	7	7	29	Yes
7. Reclassification (ie, leaving active surveillance	96. A rise in PSA above an absolute threshold: (ii) of >20 would indicate reclassification	34	11	55	27	Not voted
	97. A PSA velocity: (i) of >0.75/yr would indicate reclassification	92	4	4	25	Yes
	98. A PSA velocity: (ii) of >1.0/yr would indicate reclassification	93	6	0	27	Yes
7. Reclassification (ie, leaving active surveillance	100. An increase in PSA density: (ii) would indicate reclassification if accompanied by other PSA-based parameter changes	82	11	7	28	Yes
7. Reclassification (ie, leaving active surveillance	102. A change in PSA parameters, which by itself is not sufficient, would indicate reclassification if accompanied by: (ii) changes in imaging	48	18	34	27	No
8. Reclassification (ie, leaving active surveillance	103. A higher Gleason score (or ISUP grade) on rebiopsy is required for reclassification	27	10	63	30	No
9. Reclassification (ie, leaving active surveillance	104. An increase in the number of positive cores on rebiopsy: (i) indicates reclassification (ie, no threshold needed)	89	0	11	27	Yes
9. Reclassification (ie, leaving active surveillance	105. An increase in the number of positive cores on rebiopsy: (ii) if >2 cores on rebiopsy indicates reclassification	77	4	19	26	No
Reclassification (ie, leaving active surveillance for an active treatment) criteria. 4. Based on	106. An increase in the number of positive cores on rebiopsy: (iii) if >3 cores on rebiopsy indicates reclassification	64	12	24	25	No
	109. An increase in the extent of core involvement: (iii) if >33% of a core indicates reclassification	86	4	10	27	Yes
9. Reclassification (ie, leaving active surveillance	110. An increase in the extent of core involvement: (iv) if >50% of a core indicates reclassification	84	8	8	25	Yes
Reclassification (ie, leaving active surveillance for an active treatment) criteria. Based on	111. An increase in the extent of core involvement: (v) is not important for Gleason $3+3=6/ISUP$ grade 1 disease	20	8	72	25	No
histopathology extent 10. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 5.	113. An increase in the clinical T category based on DRE, as the sole criterion: (ii) if increase to cT2b indicates reclassification	88	4	8	27	Yes
Based on clinical extent 10. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 5.	114. An increase in the clinical T category based on DRE, as the sole criterion: (iii) if increase to cT2c indicates reclassification	42	26	32	24	No
Based on clinical extent 11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6.	115. Radiological evidence of disease progression is sufficient to reclassify in the absence of other factors	92	0	8	26	Yes
Based on imaging 13. Outcome measures. Primary outcome measures that must be measured and prioritised	129. Sexual function (ie, problems relating to erection, libido, ejaculation, etc.) is a critically important outcome to measure for men on active	3	7	90	30	Yes
by all active surveillance programmes	surveillance		00	31	22	No
Additional R2	9991. Biomarkers are useful in stratifying risk of disease progression for men undergoing active surveillance	41	28	31	22	INU

ADC=apparent diffusion coefficient; *BRAC2* = DNA repair associated gene; DRE=digital-rectal examination; ECOG=Eastern Cooperative Oncology Group (performance status); ISUP=International Society of Urological Pathology; mpMRI=multiparametric magnetic resonance imaging; *N* = number; NA=not applicable; PSA=prostate-specific antigen; R2 = round 2; R3 = round 3; TRUS=transrectal ultrasound.

Our results may be juxtaposed with those of other studies with overlapping aims. Bruinsma et al [7] used consensus methods to develop statements for active surveillance primarily aimed at standardising terms and definitions. The authors published a list of 61 items as a glossary of terms and definitions, whereas our study provides practical guidance for programmes of DAT. Both studies are complementary. MacLennan et al [12] used

^a Some items were discussed by the consensus meeting group, and were decided to have been superseded by the answer to a previous question and therefore not requiring a vote.

Table 9 – Final consensus statements from the DETECTIVE study.

Domain	Item number in Delphi and description	Consensus stage	Direction of consensus	
		(Delphi/meeting)	(agree/disagree)	
1. Patient eligibility, inclusion, and exclusion criteria. 1. Age and life expectancy	 There is no lower or upper age limit for inclusion as long as the appropriate life expectancy criterion is fulfilled 	Delphi	Agree	
1. Patient eligibility, inclusion, and exclusion criteria. 1. Age and life expectancy	2. The appropriate life expectancy criterion for inclusion is: (i) \geq 10 yr	Delphi	Agree	
Patient eligibility, inclusion, and exclusion criteria. Age and life expectancy	 Life expectancy in everyday practice is best evaluated by: (iv) combination of performance status, comorbidity index, and health status screening 	Delphi	Agree	
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	10. Low-risk disease: (iii) is excluded if the extent and/or stage of disease is high based on mpMRI	Meeting	Agree	
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	12. Gleason 3 + 4 = 7 (ISUP grade 2): (i) is an automatic exclusion criterion	Meeting	Disagree	
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	13. Gleason 3+4=7 (ISUP grade 2): (ii) can be included only if favourable characteristics are present, including PSA (<10), clinical stage (≤cT2a), and biopsy characteristics (low core positivity)	Delphi	Agree	
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	14. Gleason 4+3=7 (ISUP grade 3): (i) is an automatic exclusion criterion	Delphi	Agree	
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	15. Gleason 4+3=7 (ISUP grade 3): (ii) can be included only if favourable characteristics are present, including PSA (<10), clinical stage (≤cT2a), and biopsy characteristics (low core positivity)	Meeting	Disagree	
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	16. PSA: (i) >10 ng/ml is an automatic exclusion criterion, regardless of other disease characteristics	Delphi	Disagree	
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	18. PSA density: (i) is an important inclusion criterion	Meeting	Agree	
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	21. Clinical stage: (i) ≥T2b is an automatic exclusion criterion, regardless of other disease characteristics	Meeting	Disagree	
2. Patient eligibility, inclusion, and exclusion criteria. 2. Risk classification	22. Clinical stage: (ii) ≥T2c is an automatic exclusion criterion, regardless of other disease characteristics	Meeting	Agree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	23. Targeted biopsies should be reported separately from systematic biopsies	Delphi	Agree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	24. The extent of disease should be reported in: (i) length (mm)	Delphi	Agree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	25. The extent of disease should be reported in: (ii) % tumour volume (as a proportion of total volume of core)	Delphi	Agree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	26. ISUP grade (Gleason score) should be reported for each positive core	Delphi	Agree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	27. Percentage of Gleason pattern 4 carcinoma should be provided for each biopsy site with Gleason score 7 carcinoma	Delphi	Agree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	28. Intraductal and cribriform histologies are exclusion criteria	Delphi	Agree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	29. When systematic biopsies are performed, the extent of disease based on histological characteristics (eg, core length, core volume, core positivity, etc.) is an important inclusion/exclusion criterion	Delphi	Agree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	30. Extent of disease on histology is important even for Gleason 3+3=6/ISUP grade 1 disease because it may lead to patients being excluded	Delphi	Agree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	31. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3+3=6/ISUP grade 1 disease is: (i) core positivity >20%	Delphi	Disagree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	32. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3 + 3 = 6/ISUP grade 1 disease is: (ii) core positivity >33%	Delphi	Disagree	

Table 9 (Continued)

Domain	Item number in Delphi and description	Consensus	Direction of consensus	
		stage (Delphi/meeting)	(agree/disagree)	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	33. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3+3=6/ISUP grade 1 disease is: (iii) core positivity ≥50%	Meeting	Disagree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	34. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3+3=6/ISUP grade 1 disease is: (iv) positive cores >2	Delphi	Disagree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	35. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3+3=6/ISUP grade 1 disease is: (v) positive cores >3	Delphi	Disagree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	36. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3+3=6/ISUP grade 1 disease is: (vi) core length >3 mm	Delphi	Disagree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	37. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3+3=6/ISUP grade 1 disease is: (vii) core length >5 mm	Delphi	Disagree	
3. Patient eligibility, inclusion, and exclusion criteria. 3. Pathology characteristics	45. The threshold of disease extent beyond which patients are automatically excluded based on systematic biopsy regardless of other disease characteristics for Gleason 3+4=7/ISUP grade 2 disease is: (viii) any disease extent (because Gleason 3+4=7/ISUP grade 2 is an automatic exclusion)	Delphi	Disagree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	46. If a patient has had upfront mpMRI followed by systematic and targeted biopsies, there is no need for confirmatory biopsies	Meeting	Agree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	47. If targeted biopsies based upon mpMRI images are performed, the number of positive cores is not an indicator of the extent of disease or tumour volume	Delphi	Agree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	48. The number of positive sextants based on systematic and/or targeted biopsies should be taken into account as an indicator of tumour yolume	Delphi	Agree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	49. The volume of the dominant lesion seen on mpMRI (PI-RADS V2 ≥ 3) should be taken into account as an indicator of tumour volume	Delphi	Agree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	50. For inclusion, prostate biopsies should be performed by: (i) mpMRI-guided targeted biopsies (including in-bore, cognitive guidance, or mpMRI fusion) without systematic biopsies	Delphi	Disagree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	51. For inclusion, prostate biopsies should be performed by: (ii) mpMRI-guided targeted biopsies (including in-bore, cognitive guidance, or mpMRI fusion) with systematic biopsies	Delphi	Agree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	52. For inclusion, prostate biopsies should be performed by: (iii) transperineal template biopsies instead of mpMRI-guided biopsies	Delphi	Disagree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	53. For inclusion, prostate biopsies should be performed by: (iv) TRUS-guided systematic biopsies only	Delphi	Disagree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	55. Disease aggressiveness (for ≤T2 disease; eg, low ADC value) based purely on mpMRI characteristics is an important inclusion/exclusion criterion	Meeting	Disagree	
4. Patient eligibility, inclusion, and exclusion criteria. 4. Imaging characteristics	56. For inclusion, all patients need mpMRI at some point	Delphi	Agree	
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	58. During active surveillance in the first 2 yr, men should: (ii) have their PSA checked every 6 mo	Delphi	Agree	

Table 9 (Continued)

Domain	Item number in Delphi and description	Consensus	Direction of	
		stage (Delphi/meeting)	consensus (agree/disagree)	
5. Monitoring and follow-up criteria.	59. During active surveillance in the first 2 yr, men	Delphi	Disagree	
1. Monitoring and follow-up	should: (iii) not have their PSA checked at all			
5. Monitoring and follow-up criteria.	60. During active surveillance after the first 2 yr,	Delphi	Disagree	
Monitoring and follow-up Monitoring and follow-up criteria.	men should: (i) have their PSA checked every 3 mo 61. During active surveillance after the first 2 yr,	Delphi	Agree	
1. Monitoring and follow-up	men should: (ii) have their PSA checked every 6 mo	Delpili	Agree	
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	62. During active surveillance after the first 2 yr, men should: (iii) not have their PSA checked at all	Delphi	Disagree	
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	63. During active surveillance, men should have a digital rectal examination (DRE)	Delphi	Agree	
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	64. During active surveillance, men should have a DRE: (i) every 3 mo	Delphi	Disagree	
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	66. During active surveillance, men should have a DRE: (iii) every 12 mo	Meeting	Agree	
5. Monitoring and follow-up criteria.	67. During active surveillance, men: (iv) need not have a DRE	Delphi	Disagree	
1. Monitoring and follow-up 5. Monitoring and follow-up criteria.	68. During active surveillance, repeat biopsy	Delphi	Disagree	
Monitoring and follow-up Monitoring and follow-up criteria.	should be performed: (i) every 12 mo 70. During active surveillance, repeat biopsy	Delphi	Disagree	
1. Monitoring and follow-up	should be performed: (iii) every 48 mo	Dolphi	Agrao	
 Monitoring and follow-up Monitoring and follow-up 	73. During active surveillance, repeat biopsy should be performed: (vi) triggered by a change in mpMRI (ie, increase PI-RADS score, lesion volume, or radiological T stage)	Delphi	Agree	
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	75. During active surveillance, repeat biopsy should be performed: (viii) triggered by DRE progression	Delphi	Agree	
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	78. If repeat biopsies are needed, they should be performed by: (iii) mpMRI-guided targeted biopsies (including in-bore, cognitive guidance, or mpMRI fusion) with systematic biopsies	Delphi	Agree	
5. Monitoring and follow-up criteria. 1. Monitoring and follow-up	79. If repeat biopsies are needed, they should be performed by: (iv) transperineal template biopsies instead of mpMRI-guided biopsies	Meeting	Disagree	
6. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient characteristics	81. Reclassification should apply only to patients with life expectancy of ≥10 yr at the time of assessment	Delphi	Agree	
6. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient characteristics	83. Active surveillance should be continued only in patients with life expectancy of $\geq 10~\text{yr}$	Delphi	Agree	
6. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient characteristics	85. Patient anxiety or depression is a valid reason for triggering reclassification (including active treatment)	Delphi	Agree	
6. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 1. Based on patient characteristics	86. Patient reluctance to undergo repeat biopsies or repeat imaging is a valid reason for triggering reclassification (including active treatment)	Meeting	Agree	
7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	87. PSA progression is sufficient to indicate reclassification in the absence of other factors	Meeting	Disagree	
7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	88. A rise in PSA mandates rebiopsy irrespective of other findings	Meeting	Disagree	
7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	90. Shortening of PSA doubling time: (i) is sufficient to indicate reclassification in the absence of other factors	Meeting	Disagree	
7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	92. Shortening of PSA doubling time: (iii) of <36 mo indicates reclassification	Meeting	Disagree	
7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	94. Shortening of PSA doubling time: (v) even if minimal would indicate reclassification if accompanied by other PSA-based parameter changes	Meeting	Disagree	
7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	95. A rise in PSA above an absolute threshold: (i) of >10 would indicate reclassification	Meeting	Disagree	
7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	97. A PSA velocity: (i) of >0.75/yr would indicate reclassification	Meeting	Disagree	
7. Reclassification (ie, leaving active surveillance	98. A PSA velocity: (ii) of >1.0/yr would indicate reclassification	Meeting	Disagree	
for an active treatment) criteria. 2. Based on PSA 7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	99. An increase in PSA density: (i) is sufficient to indicate reclassification in the absence of other factors	Delphi	Disagree	

Table 9 (Continued)

Domain	Item number in Delphi and description	Consensus stage	Direction of consensus	
		(Delphi/meeting)	(agree/disagree	
7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	100. An increase in PSA density: (ii) would indicate reclassification if accompanied by other PSA-based parameter changes	Meeting	Disagree	
7. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 2. Based on PSA	101. A change in PSA parameters, which by itself is not sufficient, would indicate reclassification if accompanied by: (i) changes in histology	Delphi	Agree	
9. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 4. Based on histopathology extent	104. An increase in the number of positive cores on rebiopsy: (i) indicates reclassification (ie, no threshold needed)	Meeting	Disagree	
9. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 4. Based on histopathology extent	107. An increase in the extent of core involvement: (i) indicates reclassification (ie, no threshold needed)	Delphi	Disagree	
9. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 4. Based on	108. An increase in the extent of core involvement: (ii) if >20% of a core indicates reclassification	Delphi	Disagree	
histopathology extent 9. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 4. Based on histopathology extent	109. An increase in the extent of core involvement: (iii) if >33% of a core indicates reclassification	Meeting	Disagree	
Description of the second of t	110. An increase in the extent of core involvement: (iv) if >50% of a core indicates reclassification	Meeting	Disagree	
instopathology extent 10. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 5. Based on clinical extent	112. An increase in the clinical T category based on DRE, as the sole criterion: (i) if increase to cT2a indicates reclassification	Delphi	Disagree	
Clinical extern 10. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 5. Based on clinical extent	113. An increase in the clinical T category based on DRE, as the sole criterion: (ii) if increase to cT2b indicates reclassification	Meeting	Disagree	
11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on imaging	115. Radiological evidence of disease progression is sufficient to reclassify in the absence of other factors	Meeting	Disagree	
Til. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on imaging	116. Radiological evidence of progression mandates an image-directed biopsy	Delphi	Agree	
11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on imaging	117. A new focus of cancer on repeat imaging indicates reclassification: (i) always	Delphi	Disagree	
11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on imaging	118. A new focus of cancer on repeat imaging indicates reclassification: (ii) only if accompanied by a rebiopsy	Delphi	Agree	
11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on imaging	119. Increase in tumour volume (for ≤ T2 disease) on imaging alone (ie, in the absence of rebiopsy, PSA, etc.) indicates reclassification	Delphi	Disagree	
11. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 6. Based on maging	120. An increase in the PI-RADS score indicates reclassification in the absence of other features	Delphi	Disagree	
12. Reclassification (ie, leaving active surveillance for an active treatment) criteria. 7. Based on patient preference	121. Patient preference to switch to active treatment, regardless of other factors, should trigger reclassification	Delphi	Agree	
13. Outcome measures. Primary outcome measures that must be measured and prioritised by all active surveillance programmes	122. Overall survival (ie, how long you live, between your diagnosis and dying from any cause) is a critically important outcome for clinicians to measure for men on active surveillance	Delphi	Agree	
13. Outcome measures. Primary outcome measures that must be measured and prioritised by all active surveillance programmes	123. Prostate cancer-specific survival (ie, how long you live, between your diagnosis and dying from prostate cancer) is a critically important outcome	Delphi	Agree	
13. Outcome measures. Primary outcome neasures that must be measured and prioritised by all active surveillance programmes	to measure for men on active surveillance 124. Progression to metastatic disease (ie, your cancer spreading to other organs) is a critically important outcome to measure for men on active	Delphi	Agree	
3. Outcome measures. Primary outcome measures that must be measured and prioritised by all active surveillance programmes	surveillance 125. Local progression (ie, your cancer getting bigger or more advanced locally) is a critically important outcome to measure for men on active surveillance	Delphi	Agree	
3. Outcome measures. Primary outcome neasures that must be measured and prioritised by all active surveillance programmes	126. Symptomatic progression (ie, your cancer progressing locally to cause symptoms such as pain, bleeding in urine, difficulty in urinating, etc.) is a critically important outcome to measure for	Delphi	Agree	

Table 9 (Continued)

Domain	Item number in Delphi and description	Consensus stage (Delphi/meeting)	Direction of consensus (agree/disagree)
13. Outcome measures. Primary outcome measures that must be measured and prioritised by all active surveillance programmes	127. Reclassification (ie, switching from active surveillance to active curative treatment, eg, surgery or radiotherapy) is a critically important outcome to measure for men on active surveillance	Delphi	Agree
13. Outcome measures. Primary outcome measures that must be measured and prioritised by all active surveillance programmes	128. Urinary function (ie, problems relating to passing urine) is a critically important outcome to measure for men on active surveillance	Delphi	Agree
13. Outcome measures. Primary outcome measures that must be measured and prioritised by all active surveillance programmes	129. Sexual function (ie, problems relating to erection, libido, ejaculation, etc.) is a critically important outcome to measure for men on active surveillance	Meeting	Agree
13. Outcome measures. Primary outcome measures that must be measured and prioritised by all active surveillance programmes	130. Overall quality of life (ie, satisfaction with general health and well-being) is a critically important outcome to measure for men on active surveillance	Delphi	Agree
13. Outcome measures. Primary outcome measures that must be measured and prioritised by all active surveillance programmes	131. Anxiety (due to your cancer or treatment) is a critically important outcome to measure for men on active surveillance	Delphi	Agree
13. Outcome measures. Primary outcome measures that must be measured and prioritised by all active surveillance programmes	132. Depression (due to your cancer or treatment) is a critically important outcome to measure for men on active surveillance	Delphi	Agree

ADC = apparent diffusion coefficient; DRE = digital-rectal examination; ISUP = International Society of Urological Pathology; mpMRI = multiparametric magnetic resonance imaging; PI-RADS = Prostate Imaging Reporting and Data System; PSA = prostate-specific antigen; TRUS = transrectal ultrasound.

similar consensus methods in creating a core outcome set applicable across all interventions, including DAT. The prioritised outcome measures obtained from our study (ie, core outcomes for DAT) overlap with MacLennan et al's [12] core outcome set, providing confidence that men with localised prostate cancer and the HCPs who treat them, regarded the same outcomes as important in two separate samples. More recently, Merriel et al [17] published consensus statements on current best practice of active surveillance in the UK. The statements were developed by a multidisciplinary group of 27 members consisting of clinical experts and patient experts, informed by a review of the literature, existing guidelines and protocols used by UK urology departments, and survey data from men with localised prostate cancer. The final consensus statements were then issued by a subgroup of the panel (n = 14) in a face-to-face meeting. There are clear similarities between both projects, with both being informed by a review of the literature, and statements were developed by a multidisciplinary panel of clinicians and patients covering similar domains. However, there are major differences. It was unclear whether Merriel et al's [17] project was based on an a priori protocol for the systematic review (eg, Preferred Reporting Items for Systematic Reviews and Meta-analyses [PRISMA]) and for the consensus phases; the methods, processes and rules underpinning the consensus process, its definitions and how they were developed and achieved were not described. Our project was more international in scope, involved a larger multidisciplinary panel (n = 125) and was protocol-driven. We believe these are essential elements in any consensus endeavour which minimise bias, arbitrariness, and subjectivity, whilst enhancing rigour, transparency, and reproducibility. Nevertheless, there is overlap between the findings of both projects across all

domains, and there are no major contradictory findings; as such both projects could be regarded as complementary.

4.3. Strengths and limitations

The study used robust, transparent and reproducible methods based on an a priori protocol. The study was international and contemporary in scope, involving patients and a large panel of HCPs purposively sampled from a broad range of disciplines, all of whom are stakeholders in DAT. A two-step, multi-phase consensus building process based on an iterative Delphi survey and consensus group meeting using anonymous voting techniques was employed, all of which enhanced internal validity. High external validity was achieved by ensuring that the survey items were informed by a systematic review of the literature, which was undertaken according to PRISMA guidelines. In terms of limitations, the project was designed to be pragmatic and practical for participants. Statements had to be brief and concise, and although participants rated their judgements on a scale, decisions were essentially binary in nature (ie, disagree or agree). Consequently, it was not possible to address all elements of uncertainty regarding DAT. In particular, the decision-making process regarding patient inclusion or exclusion or reclassification often involves a complex interplay between multiple factors and variables. The relative weighting placed on each variable as one or more variables change within and across patients, and how this affects the decision-making process for patients and clinicians are difficult to conceptualise and address meaningfully in a consensus-finding study. Secondly, within the HCPs' group, there was a higher ratio of urologists compared with other specialists, in both the Delphi survey and consensus group meeting. However, this

Table 10 – Recommendations based on consensus statements from the DETECTIVE study.

Recommendations

Eligibility, inclusion, and exclusion criteria

- 1. For inclusion, patients must have life expectancy of \geq 10 yr, but there is no lower or upper age limit for inclusion.
- 2. Evaluate life expectancy using a combination of performance status, comorbidity index, and health status screening.
- 3. Patients with low-risk localised disease should be excluded if the extent and/or stage of disease is high based on mpMRI.
- 4. Patients with Gleason 3+4=7 (ISUP grade 2) should not be excluded automatically, if favourable characteristics are present, including PSA (<10), clinical stage (\leq cT2a), and biopsy characteristics (low core positivity).
- 5. Patients with Gleason 4+3=7 (ISUP grade 3) should be excluded automatically.
- 6. Patients with PSA > 10 ng/ml should not be excluded automatically; instead, PSA density should be utilised. However, the thresholds for inclusion/exclusion based on PSA density remain uncertain.
- 7. Patients with cT2b should not be excluded automatically.
- 8. Patients with \geq T2c should be excluded automatically.
- 9. Following targeted and systematic biopsies, the results of targeted biopsies should be reported separately from those of systematic biopsies.
- 10. Following prostate biopsies, the extent of disease should be reported in length (in mm) or % tumour volume (as a proportion of total volume of core).
- 11. Following prostate biopsies, the ISUP grade (Gleason sum score) should be reported for each positive core.
- 12. Following prostate biopsies, percentage of Gleason pattern 4 carcinoma should be provided for each biopsy site with Gleason score 7 carcinoma.
- 13. Patients with intraductal and cribriform histology on biopsy should be excluded automatically.
- 14. When systematic biopsies are performed, the extent of disease based on histological characteristics (eg, core length, core volume, core positivity, etc.) should be reported, as it influences the inclusion and exclusion criteria.
- 15. Patients with Gleason 3+3=6/ISUP grade 1 disease should be excluded if they have a high extent of disease on histology. However, the definition of "high extent" remains uncertain.
- 16. There is no need for confirmatory biopsies if upfront mpMRI followed by systematic and targeted biopsies has been performed.
- 17. If targeted biopsies based on mpMRI images have been performed, the number of positive cores should not be used as an indicator of the extent of disease or tumour volume. Instead, the number of positive sextants based on systematic and/or targeted biopsies should be considered an indicator of tumour volume.
- 18. The volume of the dominant lesion seen on mpMRI (PI-RADS $V2 \ge 3$) should be considered an indicator of tumour volume.
- 19. For inclusion, prostate biopsies should be performed by mpMRI-guided targeted biopsies (including in-bore, cognitive guidance, or mpMRI fusion) with systematic biopsies.
- 20. Patients with \leq T2 disease should not be excluded automatically on the basis of disease aggressiveness (eg, low ADC values) based purely on mpMRI characteristics.
- 21. Perform mpMRI at some point for inclusion.

Monitoring and follow-up criteria

- 22. During active surveillance, men should have their PSA checked every $6\ \mathrm{mo}$.
- 23. During active surveillance, men should have a DRE every 12 mo.
- 24. During active surveillance, repeat biopsy should be performed if there is a change in mpMRI (ie, increase in PI-RADS score, lesion volume, or radiological T stage), or by DRE progression or PSA progression. However, it remains unclear whether repeat biopsy should be performed in the absence of any triggers (ie, protocol mandated).
- 25. If repeat biopsies are needed, they should be performed by mpMRI-guided targeted biopsies (including in-bore, cognitive guidance, or mpMRI fusion) with systematic biopsies. However, it remains unclear when mpMRI should be performed during monitoring, and whether it should be performed routinely or triggered (eg, by PSA or DRE changes.
- 26. Active surveillance should only be continued in patients if their life expectancy continues to be ≥ 10 yr.

Reclassification criteria (ie, leaving active surveillance for an active treatment)

27. Reclassification should apply only to patients with life expectancy of $\geq\!10$ yr at the time of assessment.

- 28. Consider reclassifying patients if they develop anxiety or depression due to prostate cancer.
- 29. Consider reclassifying patients if they are reluctant to undergo repeat biopsies or repeat imaging.
- 30. Patients should not be reclassified automatically based on PSA progression (including level of PSA, PSA kinetics, or PSA density) alone in the absence of other factors. PSA progression should lead to reclassification only if accompanied by changes in histology on repeat biopsy (ie, upgrade in Gleason sum score/ISUP grade).
- 31. Patients should not be reclassified automatically based on histological changes showing an increase in disease extent (eg, core positivity, % involvement of core, etc.) as the sole criterion.
- 32. Patients should not be reclassified automatically based on DRE showing an increase in clinical stage to cT2a or cT2b as the sole criterion.
- 33. Patients should not be reclassified automatically based on radiological evidence of disease progression as the sole criterion. Instead, radiological evidence of progression mandates an image-directed biopsy and patients are reclassified only if it confirms upgraded disease.
- 34. Patients should not be reclassified automatically based on a new focus of cancer shown on repeat imaging; instead, they should be reclassified only if image-directed biopsy confirms upgraded disease.
- 35. Patients should not be reclassified automatically based on an increase in tumour volume (for \leq T2 disease) on imaging alone (ie, in the absence of rebiopsy, PSA, etc.); instead, this mandates an image-directed biopsy and patients are reclassified only if it confirms upgraded disease.
- 36. Patients should not be reclassified automatically based on an increase in the PI-RADS score as the sole criterion.
- 37. Consider reclassifying patients if they choose to undergo active treatment, independent of other factors.

Outcome measures that must be prioritised

38. The following outcome measures should be prioritised in all protocols of deferred active treatment:

Overall survival

Prostate cancer-specific survival

Progression to metastatic stage

Local progression

Symptomatic progression

Reclassification

Urinary function Sexual function

Overall quality of life

Anxiety

Depression

ADC=apparent diffusion coefficient; DRE=digital-rectal examination; ISUP=International Society of Urological Pathology; mpMRI=multiparametric magnetic resonance imaging; PI-RADS=Prostate Imaging Reporting and Data System; PSA=prostate-specific antigen.

reflects contemporary practice, whereby patients within DAT programmes are managed mostly by urologists. Additionally, there was an unusually high attrition rate within the patient group between rounds 1 and 2 of the Delphi survey (41%). However, the outcome of all statements rated by patients remained stable between rounds 1 and 2, hence suggesting that the attrition had minimal impact on the consensus outcome. There is also a small risk of introducing sampling error in terms of failure to achieve a balance between contrasting attitudes regarding active surveillance. However, through purposive sampling of a large number and a wide range of clinical practitioners involved in active surveillance, diverse opinions regarding active surveillance would have been achieved and hence minimising this risk.

The choice of a threshold for defining consensus (ie, 70% in our study) merits a brief discussion. It may be argued that

this is an arbitrary figure. However, our decision to use this threshold was informed by the methodological literature and through experience in previous consensus research conducted by members of the project steering group [12,13,18]. Many consensus projects define consensus as >70% of the participants choosing scores 7–9 and <15% choosing scores 1-3 (or vice versa) on a 9-point Likert scale, in order to account for the majority opinion whilst not dismissing divergent opinions [10,11,19]. The major emphasis in consensus methodology resources is that any threshold must have been judiciously selected, justified, and described a priori [20,21]. A higher threshold of 80% or 90% gives undue influence to outlier opinions and would have significantly reduced the number of items reaching consensus, which seriously impairs the study's usefulness in clinical practice and research.

Lastly, the study did not achieve consensus on all statements, with 36 items (28%) failing to reach consensus, although 24 items from this group (ie, 67% out of the total number of statements not reaching consensus) achieved near consensus (Table 8). This reflects persisting uncertainty even amongst experts and specialists in the field, which can be resolved only through assessment of robust data from comparative studies from which higher levels of evidence can be obtained.

4.4. Areas for further research

We highlight persisting uncertainly and areas for further study. Firstly, for DAT eligibility, there is a need to improve determination of life expectancy more accurately and on an individualised basis. Presently, a combination of approaches and strategies are employed, but they apply on a general rather than an individual level. A potential way forward may include studies exploring the creation of nomograms or actuarial tables integrating essential elements influencing life expectancy, such as age, ethnicity, social class, occupation, family history, specific comorbidities, smoking status, and so on. Secondly, as our project has shown, certain thresholds remain contentious. For instance, thresholds beyond which disease extent on biopsy ought to lead to exclusion of patients with lowrisk disease, or the role of mpMRI in determining disease stage and aggressiveness as a criterion for inclusion or exclusion into DAT programmes, require data from prospective, well-designed studies, incorporating diagnostic accuracy elements and allowing synthesis of evidence regarding clinical effectiveness. In particular, the definition of "high disease extent" based on biopsy characteristics remains problematic, although there was consensus on its importance. The role of a negative confirmatory biopsy was also not adequately explored in our study, and hence it deserves further study. In addition, since decision making for clinicians and patients regarding DAT should be individualised, there is a need to better understand how the complex interaction between multiple factors influences decision making, especially in terms of relative weighting placed on different variables and their tradeoffs; this could be explored through studies utilising

discrete choice experiments [22]. In terms of monitoring and follow-up, there was no consensus regarding the role of per-protocol mpMRI or per-protocol repeat biopsies (ie, untriggered), or on their frequency and timing. The lack of consensus on the need for protocol-mandated (ie, untriggered) repeat biopsies is particularly striking because many contemporary prospective studies on DAT include them. Although we found consensus regarding repeat biopsy being required if there was a change in mpMRI, digital rectal examination progression, or PSA progression, it has to be acknowledged that the sensitivity of these triggers for higher-grade disease remains unproven. The evolving role of mpMRI in detecting clinically significant disease in place of biopsy is promising, as are new biomarkers (reviewed in the study of Loeb et al [23]), including serum markers (eg, Prostate Health Index and 4 K score), urinary markers (eg, Prostate Cancer Antigen 3, or PCA3), and tissue markers (eg, genomic profiling). Once data on these promising diagnostic interventions mature, future studies should integrate them into nomograms predicting the probability of reclassification. In addition, given the current heterogeneity in practice, there is a need to standardise the risk categories and follow-up strategies in large prospective studies. Lastly, the findings from our study will improve and direct the standardisation of undertaking DAT in routine clinical practice and research. Clinicians should use them to carefully design their DAT protocols such that comparative clinical effectiveness data can be prospectively collected and the results audited regularly. Researchers should follow our guidance, and perform clinical trials or prospective cohort studies comparing different DAT protocols against each other and against immediate curative interventions.

5. Conclusions

The EAU-EANM-ESTRO-ESUR-SIOG Prostate Cancer Guideline Panel, in partnership with other leading guideline authorities and patient advocacy organisations (Supplementary material), undertook an ambitious project using a novel and transparent approach in this setting to develop consensus statements for all domains relating to DAT, to standardise clinical practice and research. Protocol-driven, robust, and transparent methods were utilised. Consensus was achieved on 93 out of 129 statements (72%), covering the domains of criteria for patient selection, inclusion and exclusion (including patient and disease characteristics, imaging criteria, and type of biopsies), nature and timing of investigations and assessments during the period of monitoring and follow-up (including PSA measurements, clinical examination, repeat imaging and repeat biopsies), criteria and thresholds for reclassification and change in management, and type of outcome measures that should be prioritised. The findings will guide and inform routine clinical practice and research by being incorporated into guidelines issued by the EAU-EANM-ESTRO-ESUR-SIOG Prostate Cancer Guideline Panel and partner organisations. until higher levels of evidence emerge through prospective comparative studies and clinical trials.

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Appendix A. Supplementary data

Supplementary material related to this article can be found, in the online version, at doi:https://doi.org/10.1016/j.eururo.2019.09.020.

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