

Table 3. Risk factors and scores, sensitivity, specificity, positive predictive value and decision criteria for selected decision models for identification of STIs among Jamaican family planning clients, according to type of STIs

Decision model and risk factors	Sensitivity	Specificity	Positive predictive value	Decision criteria
GONORRHEA/CHLAMYDIA/TRICHOMONIASIS				
WHO algorithm*	57.7	46.2	25.0	Score ≥ 2 or clinical signs (see Figure 1)
Age <21 (1)				
New partner in 3 months (1)				
>1 partner in last 3 months (1)				
Not living with steady partner (1)				
Partner has urethral discharge (2)				
Weighted scoring model 1	62.4	69.0	38.6	Score ≥ 9
Age <25 (5)				
>1 partner in last year (9)				
Cervical friability (6)				
Urine leukocyte esterase ($\geq ++$) (11)				
Weighted scoring model 2	59.1	69.4	37.5	Score ≥ 9
Age <25 (5)				
>1 partner in last year (9)				
Spotting/bleeding after sex (6)				
urine leukocyte esterase ($\geq ++$) (12)				
Rapid risk assessment	70.7	59.7	35.4	Any 2
Age <25				
>1 partner in last year				
Partner has other partners				
Partner has urethral discharge				
Spotting/bleeding after sex				
Urine leukocyte esterase ($\geq ++$)				
Risk questions	53.6	67.5	33.9	Any 2
Age <25				
>1 partner in last year				
Partner has other partners				
Partner has urethral discharge				
Spotting/bleeding after sex				
CERVICAL INFECTIONS (GONORRHEAL/CHLAMYDIAL)				
WHO algorithm*	54.6	45.2	14.1	Score ≥ 2 or clinical signs (see Figure 1)
Age <21 (1)				
New partner in 3 months (1)				
>1 partner in last 3 months (1)				
Not living with steady partner (1)				
Partner has urethral discharge (2)				
Weighted scoring model 1	56.1	68.9	22.7	Score ≥ 8
Age <25 (6)				
>1 partner in last year (6)				
Cervical friability (8)				
Urine leukocyte esterase ($\geq ++$) (8)				
Weighted scoring model 2	50.5	72.2	22.9	Score ≥ 8
Age <25 (6)				
>1 partner in last year (5)				
Spotting/bleeding after sex (8)				
urine leukocyte esterase ($\geq ++$) (9)				
Rapid risk assessment	67.3	55.7	19.9	Any 2
Age <25				
>1 partner in last year				
Partner has other partners				
Partner has urethral discharge				
Spotting/bleeding after sex				
Urine leukocyte esterase ($\geq ++$)				
Risk questions	52.3	64.9	19.6	Any 2
Age <25				
>1 partner in last year				
Partner has other partners				
Partner has urethral discharge				
Spotting/bleeding after sex				

*Modified for Jamaican STD clients. Note: Numbers in parenthesis are scores assigned to risk factors.