

Supplementary Box S1: Flexible topic guide

| Topic | Questions | Possible next questions |
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| Urine collection main question | (1) Could you tell me more about urine collection in children? What do you think about urine collection in children? | |
| Urine collection supporting questions | <ul style="list-style-type: none"> - How do you perform urine collection at your practice? - What do you think about urine collection in non-toilet trained children/toilet trained children? What do you think about adhesive bags, clean-catch, and catheterization? - What makes urine collection more difficult? - What would make urine collection easier? - Can you describe a typical situation in which you would like to collect urine in a non-toilet trained child? And for toilet trained children? - Can you describe a typical situation when you do not want to collect urine? | <ul style="list-style-type: none"> - What are the main advantages of this method for you? - What are the most important disadvantages of that method? - Why is that? / Why not? - What does that (fever without source, ...) mean for you? - Can you tell me more about that? - In which way? - In which way is that difficult? - What do you think about..? - Can you tell me more about how you deal with this? - How does that work? |
| UTI diagnosis main questions | <p>(1) Could you tell me more about the diagnosis of UTIs in children? What do you think about the diagnostic tests that are available for you?</p> <p>(2) How do you determine whether there is a urinary tract infection?</p> | |
| UTI diagnosis, supporting questions | <ul style="list-style-type: none"> - Can you describe a typical situation in which you would carry out additional tests (other than anamnesis and clinical examination)? - What do you think? What is your opinion about the urine dipstick test? - In which way do you interpret the urine dipstick test? - How do you use leukocyte esterase and nitrite for diagnosing UTIs? - What is your opinion about manual microscopy at the practice? - What is your opinion about microscopy at the laboratory? | <ul style="list-style-type: none"> - What are the main advantages of that test for you? - What are the most important disadvantages of that test? - Why is that? / Why not? - Why is this test helpful? - Can you tell me more about that? - In which way? - In which way is that difficult? In which way do you use that information? - In which way does that affect further management? - What do you do next? - What makes interpretation of... difficult? - How do you deal with that? |

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| | <ul style="list-style-type: none"> - <u>What are the advantages and disadvantages of urine microscopy at the laboratory?</u> - What is your opinion about urine culture? - How do you interpret urine culture results? - <u>What are the advantages and disadvantages of urine culture?</u> - <u>What about the CRP point-of-care test?</u> | |
| UTI management main question | (1) Could you tell me more about UTI treatment in children? How do you feel about treating or monitoring children with suspected urinary tract infection? | |
| UTI management supporting questions | <ul style="list-style-type: none"> - How do you manage cystitis? - <u>What do you think about nitrofurantoin use in children?</u> - How do you manage pyelonephritis? - <u>How did it go with your last case?</u> | <ul style="list-style-type: none"> - What helps you? - What makes you start with antibiotic therapy? - Why is that? / Why not? - Can you tell me more about that? - In which way? - In which way is that difficult? |
| | <ul style="list-style-type: none"> - Could you describe a typical situation in which you refer a child with suspected UTI to secondary care? - Which aspects make you refer more quickly? - <u>Which aspects reassure you?</u> | <ul style="list-style-type: none"> - Why is that? / Why not? - Can you tell me more about that? - In which way? - In which way is that difficult? |
| | <ul style="list-style-type: none"> - How does medical imaging help you for a child with a urinary tract infection? | <ul style="list-style-type: none"> - Why is that? / Why not? - In which way? - What are the main advantages for you? - How does that work? - Can you tell me more about that? |
| General questions | <ul style="list-style-type: none"> - What are the most important challenges in diagnosing UTIs in children? - In your opinion, what are the most important ways to improve early diagnosis of urinary tract infections? - <u>How would that work?</u> - With the experience you have, what advice would you give to a starting colleague regarding urinary tract infections in children? - Under the Covid-19 measures, are there currently (or were there previously) any issues you are concerned about in relation to diagnosis of UTIs in children? - During this interview, did anything else occur to you about your experiences with urinary tract infections in children that you would like to share? | |

Sections that were adapted during the study are indicated in ~~red~~ (removed) and green (added)