Use of Ventilator Hyperinflation in the Paediatric Intensive Care Unit (PICU)

| 1. How many years have you been working as a Physiotherapist? * Mark only one oval. 0-2 years 3-5 years 6-10 years 11-15 years 16-20 years >20 years 2. How many years of Paediatric ICU experience do you have? * Mark only one oval. 0-2 years 3-5 years 11-15 years 11-15 years | |
|---|--|
| | |
| 3-5 years 6-10 years 11-15 years 16-20 years >20 years 2. How many years of Paediatric ICU experience do you have? * Mark only one oval. 0-2 years 3-5 years 6-10 years 11-15 years | |
| 3-5 years 6-10 years 11-15 years 16-20 years >20 years 2. How many years of Paediatric ICU experience do you have? * Mark only one oval. 0-2 years 3-5 years 6-10 years 11-15 years | |
| 6-10 years 11-15 years 16-20 years >20 years How many years of Paediatric ICU experience do you have? * Mark only one oval. 0-2 years 3-5 years 6-10 years 11-15 years | |
| 11-15 years 16-20 years >20 years 16-20 years 17-20 years 11-20 years 11-20 years 11-20 years 11-20 years 11-20 years | |
| 16-20 years > >20 years 2. How many years of Paediatric ICU experience do you have? * Mark only one oval. 0-2 years 3-5 years 6-10 years 11-15 years | |
| >>20 years 2. How many years of Paediatric ICU experience do you have? * Mark only one oval. 0-2 years 3-5 years 6-10 years 11-15 years | |
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| Mark only one oval. 0-2 years 3-5 years 6-10 years 11-15 years | |
| 0-2 years 3-5 years 6-10 years 11-15 years | |
| 3-5 years 6-10 years 11-15 years | |
| 3-5 years 6-10 years 11-15 years | |
| 6-10 years 11-15 years | |
| 11-15 years | |
| | |
| 16-20 years | |
| >20 years | |
| | |
| | |
| 3. What is your highest level of qualification? * | |
| Mark only one oval. | |
| Diploma of Physiotherapy | |
| Bachelor of Physiotherapy / Graduate entry Masters in Physiotherapy | |
| Post graduate diploma | |
| Postgraduate Masters degree | |
| PhD / Doctorate of Physiotherapy | |
| Other: | |
| | |
| | |
| | |
| Paediatric Intensive Care Unit (PICU) information | |
| | |
| 4. In which geographical region is your unit based? * | |
| | |
| 4. In which geographical region is your unit based? * | |
| 4. In which geographical region is your unit based? * Mark only one oval. | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West Wales | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West Wales West Midlands | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West Wales West Midlands Vorkshire and the Humber | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West Wales West Midlands | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West Wales West Midlands Vorkshire and the Humber | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West Wales West Midlands Yorkshire and the Humber Other: | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West Wales West Midlands Yorkshire and the Humber Other: In which category of hospital is your PICU located? * | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West Wales West Midlands Vorkshire and the Humber Other: 5. In which category of hospital is your PICU located? * Mark only one oval. | |
| 4. In which geographical region is your unit based? * Mark only one oval. East Anglia East Midlands Greater London Ireland North East Northern Ireland North West Scotland South East South West Wales West Midlands Yorkshire and the Humber Other: In which category of hospital is your PICU located? * | |

| ٧ | Vhat is the maximum level of care that your unit can provide? * |
|-----|--|
| ٨ | Mark only one oval. |
| (| Level 1 (monitoring available in a district general hospital) |
| (| Level 2 (eg high dependency unit, non-invasive ventilation) |
| (| Level 3 (intensive and critical care) |
| H | low many beds do you have in your Paediatric Intensive Care Unit? * |
| | |
| | |
| | o you perform the technique of Ventilator Hyperinflation (VHI) in your PICU? * |
| ٨ | Aark only one oval. |
| (| Yes |
| (| No |
| (| No - but we are interested in using VHI in the future |
| | Paediatric Ventilator Hyperinflation (VHI) |
| H | dow did you learn the theoretical aspects of VHI? * |
| C | check all that apply. |
| l | Taught VHI theory at a prefereignal development course |
| [| Taught VHI theory at a professional development course Taught VHI theory at the bedside by a senior paediatric physiotherapist |
| | Taught VHI theory at the bedside by a senior adult physiotherapist |
| - [| Taught VHI theory by a medical colleague Self-taught VHI theory through reading of scientific literature |
| 1 | Other: |
| | |
| | Llow did you leave the prestical expects of profession VIII2 * |
| | How did you learn the practical aspects of performing VHI? * |
| | Check all that apply. |
| | Taught how to perform VHI as an undergraduate Taught how to perform VHI at a professional development course |
| | Taught at the bedside by a senior paediatric physiotherapist |
| | Taught at the bedside by a senior adult physiotherapist |
| | Taught at the bedside by a medical colleague |
| | Self-taught through reading of scientific literature Other (please give details) |
| | |
| | Do you need medical approval to perform VHI in your PICU? * |
| | Check all that apply. |
| | Yes |
| | No |
| | Under certain circumstances (please specify in the "other" box below) |
| | Other: |
| | White of the fill with a first of the Millian Piolice of the Millian Control of the Millian |
| | Which of the following staff perform VHI in your PICU? (please tick all that apply) * Check all that apply. |
| | Band 8a physiotherapist |
| | Band 8a physiotherapist Band 7 physiotherapist |
| | Band 6 physiotherapist |
| | Band 5 physiotherapist |
| | Physiotherapy student Medical staff |
| | Nursing staff |
| | Critical care support workers |
| | Other: |
| | |
| | Do you use a VHI protocol in your PICU? * |
| | Check all that apply. |
| | Yes - we follow a paediatric protocol Yes - we follow an adult protocol |
| | No |
| | Other: |
| | |

| Rarely (less than | | | | | |
|---|----------------------|------------------------|--|-------------|----------------|
| urciy (icaa tildii | once per m | onth) | | | |
| Sometimes (less | than once | per week) | | | |
| Frequently (more | | a week) | | | |
| very mequentity (| uany) | | | | |
| | | | | | |
| What do you conside | r to be the | main indica | ations for | performir | ng VHI? * |
| | | | | | |
| What do you conside | r to be the | main contr | aindicatio | ns for pe | rformina VH |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | | | | |
| | | | | | |
| When would you cho | ose VHI ov | er MHI (ma | anual hype | erinflatior | n)? * |
| Mark only one oval per r | ow. | | | | |
| | Strongly disagree | Disagree | Neutral | Agree | Strongly agree |
| Unit | | | | | agree |
| preference/guidance | | | | | |
| Personal preference | | | | | |
| Ventilator PEEP >8cmH20 | | | | | |
| Ventilator PEEP >10cmH20 | | | | | |
| Concerns of derecruitment on | | | | | |
| disconnection from the ventilator | | | | | |
| Cardiovascular instability requiring | | | | | |
| high inotropic support | | | | | |
| High respiratory | | | | | |
| infection risk | | | | | |
| COVID-19 positive | | | | | |
| 20115-13 hoginac | | | | | |
| 20 tis positive | | | | | |
| When would you choo | ose MHI ov | ver VHI? * | | | |
| | | /er VHI? * | | | |
| When would you choo | ow. Strongly | ver VHI? * Disagree | Neutral | Agree | Strongly |
| When would you choo | Strongly disagree | | Neutral | Agree | Strongly agree |
| When would you choo | ow. Strongly | | Neutral | Agree | |
| When would you choo | Strongly disagree | | Neutral | Agree | |
| When would you choo | Strongly disagree | | Neutral | Agree | |
| When would you choo Mark only one oval per round Unit preference/guidance Personal preference Ventilator PEEP | Strongly disagree | | Neutral O | Agree | |
| When would you choo Mark only one oval per re Unit preference/guidance Personal preference Ventilator PEEP >8cmH20 Ventilator PEEP <8cmH20 Patient reportedly stable on disconnection from | Strongly disagree | | Neutral O | Agree | |
| Unit preference/guidance Personal preference Ventilator PEEP >8cmH20 Patient reportedly stable on disconnection from ventilator | Strongly disagree | | Neutral | Agree | |
| When would you choo Mark only one oval per re Unit preference/guidance Personal preference Ventilator PEEP >8cmH20 Ventilator PEEP <8cmH20 Patient reportedly stable on disconnection from ventilator High sputum load | Strongly disagree | | Neutral O | Agree | |
| Unit preference/guidance Personal preference Ventilator PEEP >8cmH20 Patient reportedly stable on disconnection from ventilator | Strongly disagree | | Neutral O O O O O O O O O O O O O O O O O O | Agree | |
| When would you choo Mark only one oval per re Unit preference/guidance Personal preference Ventilator PEEP >8cmH20 Ventilator PEEP <8cmH20 Patient reportedly stable on disconnection from ventilator High sputum load Cardiovascular instability requiring high inotropic | Strongly disagree | | Neutral O O O O O O O O O O O O O O O O O O | Agree | |

| 19. | Are your paediatric patients routinely paralysed prior to VHI? Please add comments in the "other" section. * |
|-----|---|
| | Check all that apply. |
| | Yes |
| | □ No |
| | |
| | Other: |
| | |
| | |
| 20. | Please indicate in which of the following modes of ventilation you would commonly perform VHI (tick all that apply) * |
| | Check all that apply. |
| | SIMV volume control |
| | SIMV pressure control |
| | CPAP / Pressure support mode |
| | Bilevel |
| | Assist control |
| | PRVC |
| | Other: |
| | |
| | |
| 21. | How do you position the child for VHI? * |
| | |
| | |
| | |
| 22. | Please outline how you would most commonly perform VHI? Please give as much information as possible. * |
| | , |
| | |
| | |
| | |
| | |
| | |
| | |
| 00 | |
| 23. | Do you alter your technique of VHI when treating lung collapse versus sputum retention? If yes, please explain how in the "other" section. * |
| | Check all that apply. |
| | Yes |
| | □ No |
| | Other: |
| | |
| | |
| 24. | Do you have a maximum pressure or maximum volume that you do not exceed during VHI? If yes, please give a value in the "other" section with a unit or indication of |
| 27. | either pressure or volume. |
| | |
| | Check all that apply. |
| | Yes |
| | □ No |
| | Other: |
| | |
| | |
| 25. | During an average treatment, how many deep breaths do you provide in one set? (A set is a group of consecutive breaths, which may be followed by a suction). This may * |
| | vary, please give additional comments in the "other" section if necessary. |
| | Check all that apply. |
| | |
| | ☐ 1-2 ☐ 3-4 |
| | 5-10 |
| | >10 |
| | |
| | |
| | |
| | |
| 26. | During an average treatment, how many sets of deep breaths do you provide?★ |
| | Check all that apply. |
| | □ 1-2 |
| | 3-4 |
| | 5-10 |
| | >10 |
| | Other: |
| | |
| | |
| 27. | What outcome measures would you use to indicate a successful, or unsuccessful, outcome?* |
| | |
| | |
| | |
| | |
| | |
| | |

| 28. | "other" section), or email your protocol directly to j.balls@rbht.nhs.uk or ellie.melkuhn@gstt.nhs.uk We will share future project plans and outcomes with you. |
|-----|--|
| | Check all that apply. |
| | ☐ Yes ☐ No ☐ Maybe |
| | Other: |
| | |
| | |

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