Supplemental Digital Content, Figure 2: Sample NGN multiple response matrix question template created in Microsoft Word using guidance and examples from NCSBN and other sources,1 followed by an example of an analyze cues cognitive function question using the template.

# Multiple Response-Matrix

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| (Type chart exhibit or clinical scenario from unfolding case here) | (Type question stem here, example: Mark the medical problem that each assessment finding is **most closely associated** with. Some findings may be assessed with more than one disease process.)

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| --- | --- | --- | --- | --- | --- | --- |
| Assessment Finding | Medical Problem 1 | Medical Problem 2 | Medical Problem 3 | Medical Problem 4 | Medical Problem 5 | Add columns as needed (up to 10 columns maximum) |
| Cue 1 |  |  |  |  |  |  |
| Cue 2 |  |  |  |  |  |  |
| Cue 3 |  |  |  |  |  |  |
| Cue 4 |  |  |  |  |  |  |
| Cue 5 |  |  |  |  |  |  |
| Cue 6 |  |  |  |  |  |  |
| Cue 7 (Can have 4-7 rows for a question) |  |  |  |  |  |  |

Note: Each column must have at least one response option selected. Multiple choices per column may be selected. |

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| The nurse is caring for a 46-year-old female in the ED.**History & Physical:**1700: 46-year-old female brought to the ED by her partner, states “I am so sick that I feel like I am going to pass out.” History of anxiety, cholelithiasis, and cesarean section in 2018 and 2020. Medications include fluoxetine 30 mg daily, ferrous sulfate 325 mg daily, and a daily multivitamin. Reports daily marijuana use. Her partner reports that the client had a fever of 102.4°F at 1500, and she has not been able to take oral fluids for two days. He attempted to administer acetaminophen at 1500, but the client vomited the tablets.**Nurse’s Notes:** 1715: Client is lethargic and oriented x 3, reports occasional dizziness. Vital signs: T 102.8°F, P 110, RR 22, BP 92/68, O2 saturation 95% on room air. Skin is hot and dry, tenting skin turgor noted. PERRLA intact. Mucous membranes dry and pale, posterior pharynx reddened with mild edema. Crackles noted in bilateral lower lung lobes anteriorly and posteriorly, occasional productive cough noted. Client states having “yellow” sputum. Heart sounds regular with no murmurs; radial, dorsalis pedis, and posterior tibial pulses 1+ and regular. Reports nausea but no emesis noted. Pain rated 5/10 inside pharynx, described as “burning.”  | Mark the disease process(es) that each assessment finding is **most closely associated** with. Each finding may correlate with more than one disease process. Each column must have at least one response.

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| --- | --- | --- | --- |
| **Client Findings** | **Influenza** | **Sepsis** | **Viral Gastroenteritis** |
| Client has not been able to take oral fluids for two days |  |  |  |
| Temperature 102.8°F |  |  |  |
| BP 92/68 |  |  |  |
| Tenting skin turgor noted |  |  |  |
| Crackles noted in bilateral lower lung lobes anteriorly and posteriorly |  |  |  |
| Occasional productive cough |  |  |  |
| Pain rated 5/10 inside pharynx |  |  |  |

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REFERENCE

1. Silvestri LA, Ignatavicius DD. *Writing Effective NGN Items*. Elsevier; 2021. Accessed April 22, 2021. <https://evolve.elsevier.com/education/expertise/next-generation-nclex/writing-effective-next-generation-nclex-ngn-items/>