

# Case Study Series

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Turnitin App: Knowledge  
Acquisition through  
Multimodal Feedback  
*by Gok Kandasamy*

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Visually seeing my mistakes on my manual handling of the patients, helped me greatly to understand my weakness. It would had been difficult to pick this up from the typed feedback. I am great full to Gok for highlighting this at my earlier part of my career.

LS, BSc Sports Therapy student

**Turnitin App: Knowledge Acquisition through Multimodal Feedback**

Whilst the developments in linking theory to practice have had positive and transformative impact on students it remains the case that the nature of feedback given to the student is a key factor influencing skill-acquisition process and enables students to become an effective reflective practioner.

Traditionally, sports therapy staff have provided written subjective feedback on different components of core Sports Therapy skills. Time constraints and large cohorts, has made it difficult for staff to provide students' with regular individual support, guidance and in-depth feedback.

We know that the accuracy of student performance of clinical skills is influenced considerably by the type of feedback provided so the lack of quality feedback had to be addressed.

**Approach**

The Turnitin app is a free iOS app, which is mainly used to check the originality of an essay as well as to mark essay's offline. I utilised the app to e-mark the students' practical examinations and their performance in their clinic.

Staff can do this by using an Apple iPad to record video and audio through video and audio capture app. And to use this to provide explicit and detailed feedback (in all three formats – written, audio and video) to students.



Visual feedback enables students to see their performance and to reflect on their own motor skill learning process. This type of reflective learning was hugely helpful for students to acquire transferrable knowledge and employability skills.

**1. Appropriate active vertebral movements performed ( 10)**  
Logical sequence; Handling Skills; Safe application of OP.

Lumbar	Thoracic	Cervical
Rotn - Right	Flex	Rotn - Left
L. Flexion (right)	L. Flexion (Left)	Extension

Rushed through  
Less effective demonstration  
PASSIVE OP: Applied op for extension even if it is painful movement  
Gait, heel and toe walk  
Squat  
Relate to the clinical scenario

**2. Palpation - Soft tissue and bony (5)**  
Systematic Approach; Safe and appropriate; Handling Skills

Bony prominence	
Soft tissue	Quads, asis, iliac crest, hams, gluteus, PSIS, g. Max,
Signs of inflammation	spinous process,
Purpose	Not confident, random screening,

**3. Neurological Assessment: (5)**  
Neurological testing, neurodynamic testing, leg length, safe and appropriate handling skills

Dermatomes	Myotomes	Reflexes
L3	2 of 4	Patellar reflex

Practical assessment sheet for live marking

## Outcome

External examiner in his comments praised the way I have been able to provide detailed and constructive feedback to students, and noted the positive impact on their learning.

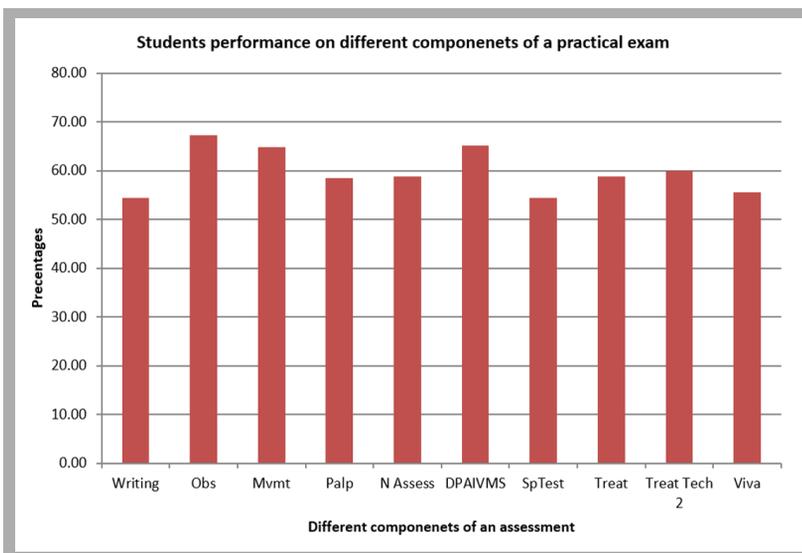
The results of our own research also suggest that quantitative concurrent feedback on learning spinal mobilization skills resulted in immediate improvement in accuracy and consistency of the students' performance.

Feedback gathered from students on e-marking was very positive and they particularly valued the video and audio feedback. The ability for students to access the feedback at any time and repeatedly, in any place, was noted as being instrumental in supporting their reflection and learning.

Additional to enhancing the student learning, Turnitin app allowed me to standardise marking and has reduced inconsistency significantly by using customised comments and eRubrics.

The generated analytical grade mark report from Turnitin app also helped me to reflect on my teaching and to identify areas where students needed more support. Please see the figure below:

e-Marking Project: Measuring the success of teaching & identifying learning gaps



The Turnitin app for (Apple) iPad has enabled timely detailed and consistent feedback to be given to students following practical assessment (...) having used this app it is easily adaptable for a variety of module assessments and speeds up the feedback process for both staff and students.

GN Senior Lecturer in Sports Therapy

## Advantages of using the Turnitin app for marking and feedback

- Strong and secure
- Greater access to the student's data
- Synchronises with grade centre and the VLE
- Opportunity to provide multimodal feedback (written, voice and video)

Scan the QR code to watch Gok's early demonstration, piloting the Turnitin app to provide rich feedback to his sports therapy students.

